BRAMPTON
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Corporate Services
Purchasing

October 21, 2021 **(779 pages)**

ADDENDUM NO. 2

BID CALL NO. T2021-173

CONSTRUCTION OF FIRE STATION 201 AT 25 RUTHERFORD ROAD SOUTH

This Addendum is part of the Bid Document.

1. **Pertaining to Part E On-Line Bidding System – Price Schedule**

   Alternate Price with the following description have been added.

   The structural revisions for Alternate Price #1 are the following (refer to structural drawing SK1):

   - Long span open-web steel joists above the apparatus bay between grid line K & U are revised to W760x134 steel beams.
   - Top chord extensions for the open-web steel joists are revised to moment connected W200x27 beams.
   - The girders on gridline 5 & 8 are raised in elevation such that top of girders are at the same elevation as bottom of deck.
   - Girders on gridline 5 & 8 are revised to W530x66.

2. **Pertaining to Specifications and Drawings:**

   Refer to attached Consultant Addendum No. 1 (Total 777 pages).

3. **Project construction start date:**

   Project construction start date is anticipated to be the final week of November 2021.

4. **List of Sub-contractor**

   Upon request from the City of Brampton the Bidder must provide a list of the following sub-contractors to be utilized on this project within 24 hours of the Bid closing.

   i. Concrete Forming
   ii. Concrete Reinforcing
   iii. Cast in Place Concrete
   iv. Concrete Floor Finishing
   v. Masonry
   vi. Structural Steel

vii. Steel Decking
viii. Finish Carpentry
ix. Thermal Insulation
x. Composite Panels
xi. Metal Siding
xii. Roofing
xiii. Metal Doors and Frames
xiv. Glazing and Aluminium Works
xv. Gypsum Board
xvi. Acoustic Ceilings
xvii. Flooring
xviii. Epoxy Flooring
xix. Earthwork
xx. Asphalt
xxi. Mechanical
xxii. Electrical
xxiii. Fire Protection

All other terms & conditions remain unchanged.

If you have any questions, please do not hesitate to contact the undersigned.

Bidders are required to acknowledge all Addenda.

Santosh Mishra, CSCMP
Senior Buyer, Purchasing, Corporate Services
Ph: 905-874-3482
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THE BID DOCUMENTS, CONDITIONS OF CONTRACT, DRAWINGS AND SPECIFICATIONS ARE HEREBY AMENDED, AS FOLLOWS:

Questions & Responses:

Question 1:

"Drawing C1.1: please confirm removal of chain link fence is limited to that which is shown by the 'X' marker. This includes the part of the North and the entire West side of the property."

Response: Drawing C1.1 (dated Oct. 18, 2021 – REV.10) has been revised to include additional removal of existing chain link fence at location of proposed storm sewer headwall at south side of the property. Landscape Architect to confirm if additional removals required from their end.

Question 2:

"For the specification 08 35 00 Four Folding Doors, only one manufacturer has been listed with there being a sole distributor. To make this specification more competitive we would like to recommend "BATOR Four-Fold Door Model AFFD238" as an alternative. This product has been previously used on Brampton Fire station 214."

Response: Alternatives will not be entertained during the bid period, as per Supplementary Provision 2. Approved alternatives will be considered after the award.

Question 3:

"Please accept Sika as an alternate Manufacturer for epoxy flooring."

Response: Alternatives will not be entertained during the bid period as per Supplementary Provision 2. Approved alternatives will be considered after the award.

Question 4:

"Specifications did not include an asphalt section. Please provide."

Response: MTE defers response to Geotech Consultant. Contractor to refer to Pavement Recommendations within Geotechnical Report prepared by SNC Lavalin.

Question 5:

"In Division 10 80 00 Miscellaneous Specialties for the Foot Grilles, it states under acceptable manufactures; the product is to be selected by consultant. Please advise on who the acceptable manufactures are."

Response: Refer to Amendment 2.

Question 6:

"For Division 08 36 15 Glazed Sectional Doors can you please provide an approved alternative product to make this specification more competitive or revise the paragraph to include or equal manufacturer."

Response: Alternatives will not be entertained during the bid period, as per Supplementary Provision 2. Approved alternatives will be considered after the award.

Question 7:

"*Will an Aluminum Composite Panel (ACM) specification be issued?"*

Response: 07 42 40 Composite Panels issued as a part of this addendum. Refer to Amendment 3.

Question 8:

"Please specify the kind of profile used (2.5", 4" or 6" Groove) for the Aluminum Composite Panels (ACM)."

Response: 07 42 40 Composite Panels issued as a part of this addendum. Refer to Amendment 3.

Question 9:

"The current watermain connection configuration at Rutherford road shows a traffic light and a handhole landing within the trench for this work. Please consider relocating the connection point. The watermain on Rutherford road is shown as having an unknown size. What size shall bidders assume?"

Response: Connection point of the water service to the municipal watermain have been relocated to avoid conflict with existing traffic signalization infrastructure. Existing watermain within Rutherford Rd. R.O.W. that the water service is to connect to is a 400mm dia.. Refer to Drawing C2.2 (dated Oct. 18, 2021 – REV.10).

Question 10:

"Is there chemical report available?"

Response: Phase I and Phase II ESA included as part of this addendum. Refer to Amendment 4.

Question 11:

"Please provide pavement structure designs for the various pavements."

Response: Contractor to refer to Pavement Recommendations within Geotechnical Report prepared by SNC Lavalin; MTE defers response to Geotech Consultant.

Question 12:

"Region of Peel standards show the requirement for a check detector valve in chamber for watermain services similar to the one on this project. Please confirm whether it is a requirement."

Response: Checkvalve in chamber is required to be installed per Region of Peel Standard 1.3.1 with NO BYPASS OR METER REQUIRED. Refer to Drawing C2.2 (dated Oct. 18, 2021 – REV.10).

Question 13:

"With reference to above subject project and regarding to the exterior cladding Wall legend (EW2), please clarify if the AVB (Air/Vapour Barrier) is required behind the used spray insulation."

Response: In all exterior wall assemblies indicated in the Exterior Wall Types Legend on A001 the continuous Self Adhered AVB is required behind the spray insulation with no exceptions. Refer to the specification section 07 26 00.

Question 14:

"Please clarify the mounting locations of the soap dishes and owner supplied paper towel dispensers/disposals."

Response: Mounting heights for washroom accessories are shown on the interior elevations of the architectural drawing package and where not dimensioned should reference 11/A620. Washroom accessories listed as owner supplied are to have manufacturers/models confirmed after award and locations on the drawings are identified for blocking purposes only. All items are to be surfaced mounted.

Question 15:

"Drawing C1.1: please provide additional details for the existing barrier walls to be removed, including height and thickness of these walls."

Response: These barrier walls were noted on site at the time of survey. These are no longer present above grade.

Question 16:

"Please provide additional details of the stone pile to be removed. How tall is the pile? What is the average size of the stone?"

Response: The stone pile was noted on site at the time of survey. This has been subsequently removed.

Question 17:

"C2.1 - Please confirm the Temporary Asphalt Driveway is outside of the Site Boundary and not part of this contract."

Response: The temporary asphalt driveway is part of this contract.

Question 18:

"Please provide the ACM specification (materials, colours, &manufacture)"

Response: 07 42 40 Composite Panels issued as a part of this addendum. Refer to Amendment 3.

Question 19:

"Furthermore, clarify the thickness of Longboard (it is mentioned 15mm in walls assembly which is not applicable), dedicated the kind of used profile (4" or 6" Groove)?"

Response: The indicated 15mm was used as a nominal dimension in the wall assemblies, refer to specification section 07 42 41 and product literature for actual dimensions. The profile to be used is the 6" V.

Question 20:

"In addition, clarify if the AVB (Air/Vapour Barrier) is required behind the used spray insulation. Usually, when we use spray foam insulation we do not use the Blueskin behind it. Please clarify."

Response: In all exterior wall assemblies indicated in the Exterior Wall Types Legend on A001 the continuous Self Adhered AVB is required behind the spray insulation with no exceptions. Refer to the specification section 07 26 00.

Question 21:

"Regarding the Pylon sign - per 01 21 00 the supply and install of the pylon is part of the Allowance. Are the foundations (7/A102) included as part of the allowance?"

Response: Foundations for the pylon sign are not to be a part of the allowance.

Amendment 1

TABLE OF CONTENTS – Section 00 01 10

1.1 Replace document 00 01 10 – TABLE OF CONTENTS with the attached section, issued herewith.

Amendment 2

COMPOSITE PANELS – Section 07 42 40

2.1 Include new specification section 07 42 40 – COMPOSITE PANELS, issued herewith.

Amendment 3

MISCELLANEOUS SPECIALTIES – Section 10 80 00

3.1 Modify 10 80 00 2.1.7.6 as follows:

Acceptable Manufacturer: 'Pedigrid G1' by C/S Group or approved alternative by McGill Architectural Products.

Amendment 4

APPENDIX/REPORTS

4.1 Refer to Phase One Environmental Site Assessment dated August 9th, 2021 and issued herewith.

4.2 Refer to Phase Two Environmental Site Assessment dated August 16th, 2021 and issued herewith.

Amendment 5

ARCHITECTURAL DRAWINGS

5.1 Replace drawing A101 – Site Plan and OBC Matrix, with revision 12 dated October 19th 2021 and issued herewith.

5.2 In washrooms 113, 114, 115, and 116 replace hand dryers as shown with paper towel dispensers/disposal (owner supplied).

Amendment 6

CIVIL DRAWINGS

6.1 Replace drawing C1.1 with revision 10, dated October 18th 2021, and issued herewith.

6.2 Replace drawing C2.1 with revision 10, dated October 18th 2021, and issued herewith.

6.3 Replace drawing C2.2 with revision 10, dated October 18th 2021, and issued herewith.

6.4 Replace drawing C2.3 with revision 10, dated October 18th 2021, and issued herewith.

Amendment 7

LANDSCAPE DRAWINGS

7.1 Replace Landscape drawing L1, with revision 11 dated October 14th 2021 and issued herewith.

7.2 Replace Landscape drawing L2, with revision 11 dated October 14th 2021 and issued herewith.

Amendment 8

MECHANICAL ADDENDUM

8.1 Refer to Mechanical Addendum 01 dated October 18th, 2021 and issued herewith.

END OF ADDENDUM No. 1

DIVISION 06 WOOD, PLASTICS AND COMPOSITES

DIVISION 07 THERMAL AND MOISTURE PROTECTION

DIVISION 08 DOORS AND OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 12 FURNISHINGS

DIVISION 20 MECHANICAL

DIVISION 21 FIRE SUPPRESSION

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 25 INTEGRATED AUTOMATION

DIVISION 26 ELECTRICAL

DIVISION 27 COMMUNICATIONS

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

END OF SECTION

1 General

1.1 **SECTION INCLUDES**

.1 Design, labour, Products, equipment and services necessary for aluminum composite panel Work in accordance with the Contract Documents.

1.2 **REFERENCES**

.1 AAMA 2605, High Performance Organic Coatings on Architectural Extrusions and Panels.

.2 AAMA CW-10, Care and Handling of Architectural Aluminum from Shop to Site.

.3 ANSI B18.6.4, Screws, Tapping and Metallic Drive, Inch Series, Thread Forming and Cutting.

.4 ASTM C920, Specification for Elastomeric Joint Sealants.

.5 ASTM D1781, Standard Test Method for Climbing Drum Peel for Adhesives.

.6 CAN/CSA-G40.20/G40.21M, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steels.

.7 CSA S136, Cold Formed Steel Structural Members.

1.3 **DESIGN REQUIREMENTS**

.1 Design composite panels in accordance with following Climatic Design Data for Brampton contained in the Ontario Building Code:
- .1 Design temperature: January 1%, July 2 1/2%.
- .2 Hourly wind pressures: 1 in 50 year occurrence.
- .3 Seismic design: Class “C ”.

.2 Design aluminum composite panel system as a “dry joint system” and to withstand live, dead, lateral, wind, seismic, handling, transportation, and erection loads, imposed and other loads.

3. Prevent rain penetration through wall system. Design system based on “Rain Screen Principle” in accordance with the National Research Council. Volume to vent ratio should not exceed 25 m. Panels should be compartmentalized at joints. Incorporate means of draining to the exterior.

4. Design aluminum composite panel system to support its own weight and the wind load, positive and negative, prevalent for the location of the building, but no less than windgust pressure calculated from National Building Code using 1-10 year probability factor. To minimize the potential for “dished” panels after loading, permanent set of the panel, measured normal to the panel surface after application and removal of the design load, must not exceeding L/800 of distance between supported edges of panel or distance between stiffeners where stiffeners are used. Stiffeners, where used, must not deflect more than L/90 of span under load.

.5 Design aluminum composite panel system to accommodate thermal movements of the components and structural movements to provide an installation free of oil canning, buckling, delamination, failure of joint seals, excessive stress on fasteners or any other detrimental effects.

.6 Design aluminum composite panel system to prevent rattling and vibration of panels, overstressing of fasteners and clips, and other detrimental effects on the system.

.7 Panel removal: System design to allow removal of individual panels within wall system.

.8 Design miscellaneous, additional structural framing members as required to complete composite panel system, where not indicated on Contract Drawings.

.9 The attachment face of subgirts supporting the panel system must not deflect vertically more than 3 mm due to the dead load of the panel system.

1.4 SUBMITTALS

.1 Product data:
- .1 Submit copies of manufacturer's Product data in accordance with Section 01 30 00 indicating:
  - .1 Performance criteria, compliance with appropriate reference standard, characteristics, limitations.
  - .2 Product transportation, storage, handling and installation requirements.

.2 Shop drawings:
- .1 Submit shop drawings in accordance with Section 01 30 00 indicating:
  - .1 Elevations, details, profiles, dimensions, thickness of materials, finishes, methods of joining, joint location, special shapes, methods of anchoring, anchor and clip details, types of sealants and gaskets, waterproof connections to adjoining work, details of other pertinent components of the work (i.e. windows, penetrations, membranes, etc), and compliance with design criteria and requirements of related work.

.3 Samples: Submit two 300 x 300 mm samples of wall panels in the selected colours and finish for approval.

.4 Closeout Submittals: Provide maintenance instructions for incorporation into Operation and Maintenance Manual, specified in section 01 30 00.

1.5 QUALITY ASSURANCE

.1 Retain a licensed Professional Engineer, registered in Province of Ontario, to perform following services for composite panel Work:
- .1 Design of aluminum composite panel system.
- .2 Design of anchors, supports and accessories to meet seismic requirements.
- .3 Review, stamp, and sign shop drawings.
- .4 Conduct shop and field inspections and prepare and submit inspection reports.

.2 Perform work of this Section only by a Subcontractor of recognized standing who has adequate plant, equipment, and skilled workers to perform it expeditiously, and is known to have been responsible for satisfactory installations similar to that specified during a period of at least the immediate past ten years.

.3 Execute steel welding to CSA W59-M1989 by fabricators certified by the Canadian Welding Bureau to CSA W47.1.

.4 Execute aluminum welding by fabricators certified by the Canadian Welding Bureau to CSA W47.2-M.

.5 Execute finishing coatings and metal pre-treatments by applicators approved in writing by the manufacturer of the coatings and under the supervision of the manufacturer's qualified representative.

.6 Mock-up:
- .1 Fabricate, deliver, and erect a 1200 mm wide x 1800 mm high mock-up panel of composite panel system in location acceptable to Consultant.
- .2 Demonstrate finish, anchoring devices, air/vapour retarder sealing, and quality of workmanship.
- .3 Mock-up may form part of final Work, if acceptable to Consultant. Remove and dispose of mock-ups which do not form part of Work.

1.6 DELIVERY, STORAGE, AND HANDLING

.1 Handle aluminum Work in accordance with AAMA CW-10. Protect aluminum surfaces with strippable coating. Do not use adhesive papers or sprayed coatings which bond when exposed to sunlight or weather. Do not remove before final cleaning of building.

.2 Remove and replace all damaged and unsatisfactory materials which are deemed unsuitable for use at this Section's own expense.

1.7 EXTENDED WARRANTY

.1 Submit extended warranty for aluminum composite panel Work in accordance with General Conditions, except that warranty period is extended to 3 years.
- .1 Warrant against leaking, warping, twisting, joint, and finish failure.
- .2 Coverage: Complete replacement including affected adjacent parts.

.2 Manufacturer's Warranty: Provide panel manufacturer's written warranty naming Owner as beneficiary and covering failure of factory-applied exterior finish on composite metal panels within the warranty period; warrant finish per ASTM D 4214 for chalk not in excess of 8 NBS units and fade not in excess of 5 NBS units. Warranty period for finish: 10 years from date Work is certified as substantially performed.

2 Products

2.1 **ACCEPTABLE PRODUCTS AND MANUFACTURERS**

.1 Accumet PE by Flynn Canada Ltd.

.2 ACM Panels by Vicwest Canada.

.3 Alpolic Panels by Exterior Technologies Group.

.4 Or approved alternative.

2.2 **MATERIALS**

.1 All materials under Work of this Section, including but not limited to, sealants, paints, and coatings are to have low VOC content limits.

.2 Aluminum Composite Material: Two sheets of 0.51 mm thick aluminum alloy 3003, sandwiching a core of extruded thermoplastic formed in a continuous process without the use of glues or adhesives between dissimilar materials. Panel thickness: 4 mm. Bond integrity testing to adhere to ASTM D1781.

.3 Finish:
- .1 Exposed to view: Two (2) coat, coil coated fluoropolymer extrusion coating, meeting requirements of AAMA 2605, minimum thickness 1.25 mil. Colour: To be selected by Consultant.
- .2 Concealed: Prime coat.

.4 Structural shapes, plates, sag rods, and similar items: CAN/CSA-G40.20-G40.21-M, Grade 350W.

.5 Vapour permeable air barrier: In accordance with Section 07 27 00.

.6 Z-girts and C channels: CAN/CSA S136-M; Minimum 1.2 mm thick, Z275 galvanized. Depth as indicated on Contract Drawings.

.7 Provide all additional structural supports not shown on Drawings as required.

.8 Thermal spacer clip system:
- .1 Thermal spacer: 100% pultruded glass fibre and thermoset polyester resin thermal spacer complete with fastener in depth indicated on Contract

Drawings; 'Cascadia Clip' by Interra Architectural Products or approved alternative.

.2 Fasteners for spacers and attachment to back-up construction: Corrosion resistant, types as recommended by thermal spacer manufacturer.

.9 Fasteners: Concealed, ANSI B18.6.4, stainless steel Type 304.

.10 Flashings, Closure Pieces, Trim, Vented Trim and Cap Flashing: Same material and colour as panels.

.11 Clips and Panel Reinforcement: Extruded aluminum.

.12 Sealants: ASTM C920, Type M, Grade NS, Class 25; Two-part, Polyurethane non-sag type, Sikaflex 2C-NS by Sika Canada Inc. or Dymeric 240 by Tremco Ltd. Colour: As selected by Consultant.

.13 Joint backing: Product as recommended by siding sealant manufacturer.

.14 Touch-up paint: as recommended by panel manufacturer.

.15 Isolation coating: Bituminous coating, acid and alkali resistant material.

2.3 FABRICATION

1. Fabricate facings and concealed support members in a manner which will provide an installation free of exposed fastenings, with sufficient support and allowance for thermal movement to prevent facing distortion. Take site measurements before proceeding with production.

.2 Fabricate components of the system at factory, ready for field installation. Include full continuous joint reveals within system.

3. Fabricate facings flat, true, free of marks, without visible distortion and with edges straight and true. Make all planes true, and corners square and bend of minimum radius.

.4 Changes of plans, parallel or transverse to longitudinal axis shall be accomplished as detailed on shop drawings in the factory wherever practical and with a minimum of field fabrication.

.5 Form panels to dimensions indicated with tolerances to accommodate expansion and contraction between panels and structure members. Accurately form shaped panels.

6. Provide proprietary aluminum extrusions to manufacturer's standard profiles for a complete installation. Extrusions shall be full length around panel perimeter for panel reinforcement and alignment. Intermittent clips are unacceptable.

.7 Changes of plans, parallel or transverse to longitudinal axis shall be accomplished as detailed on shop drawings in the factory wherever practical and with a minimum of field fabrication.

.8 Form panels to dimensions indicated with tolerances to accommodate expansion and contraction between panels and structure members. Accurately form shaped panels.

.9 Fabricate panels with flanges on all sides.

.10 Factory fabricate accessory and trim components ready for installation.

.11 Joint filler strip shall be same material and colour as panels. Use of caulking at joints is not acceptable.

.12 Plastic shims shall be used as thermal separator between extrusions and sub-girts.

.13 Maximum allowable tolerances shall be as follows:
- .1 Panel bow: In a concave or convex direction to be 0.5% of panel dimension width and length.
- .2 Panel flatness: Rises and falls across the panel, (local bumps and depressions) will not be accepted.
- .3 Panel tolerance:
  - .1 Width: 2 mm.
  - .2 Length: 4 mm.
  - .3 Thickness: 0.2 mm.
  - .4 Squareness: 5 mm maximum.

3 Execution

3.1 EXAMINATION

.1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of Work means acceptance of existing conditions.

2. Verify that backup construction is aligned for proper installation of wall panels before commencing erection.

.3 Protect metal surfaces in contact with concrete, masonry mortar, plaster or other cementitious surface with isolation coating.

3.2 INSTALLATION

.1 Supply and install miscellaneous, additional structural framing members, required to complete composite panel system, where not indicated on Contract Drawings.

.2 Install seismic anchors, supports and accessories in accordance with reviewed shop drawings.

.3 Apply isolation coating to supporting structural framing to isolate airseal liner panel and to prevent galvanic corrosion.

.4 Supply and install air/vapour retarder in accordance with Section 07 26 00.

5. Erect wall panels complete with girts, clips, and fasteners, to meet design criteria. Anchor each individual panel over solid backing. Ensure that all penetrations through air/vapour barrier are sealed.

.6 Install panels, support and anchoring system, fasteners, trim and related items to lines and elevations indicated and in strict accordance with reviewed shop/erection drawings and manufacturer's printed instructions. Carefully co-ordinate work with other Sections.

.7 Anchor component parts to transmit wind loading and other stresses to anchorage system.

.8 Thermal spacers and girts:
- .1 Install thermal spacer in accordance with reviewed shop drawings and manufacturer's written instructions.
- .2 Pre-drill concrete or concrete masonry unit substrate to 13 mm deeper than anticipated embedment depth of fastener into substrate.
- .3 Confirm thermal clip accommodates orientation of vertical and horizontal sub-framing.
- .4 Clip thermal spacer to Z-girt and fasten clip and girt to back-up structure, fastening through thermal spacer clip and into structure.
- .5 Position Z-girts directly over thermal spacer before installation of fasteners.
- .6 Completely install spacers, screws and sub-framing, prior to installing insulation.

.9 Erect wall panel system in accordance with manufacturer's instructions and under direct supervision of the manufacturer.

.10 Erect panels and joint filler strip in accordance with manufacturer’s details to meet specified design criteria and performance. Use concealed fastening only.

.11 Finished work shall be securely anchored, free of distortion, free of surface imperfections and uniform in colour.

.12 Cut and flash wall penetrations.

.13 Erect wall panels in straight lines, true, level, and plumb.

.14 Site Tolerances: Erection tolerances apply to each individual panel and shall not be accumulative:
- .1 Maximum deviation from vertical and horizontal alignment of erected panels 3 mm in 6 m.
- .2 Maximum offset from alignment between adjacent wall panels: 1.5 mm.

3.3 **JOINT BACKING AND SIDING SEALANT**

.1 Prepare substrate surface and mask as recommended by sealant manufacturer.

.2 Install joint backing and sealant at perimeter of composite panel system and where indicated on drawings for weathertight installation. Tool sealant to concave profile.

.3 Seal around all openings and all other locations indicated or required to provide weathertight and watertight seal.

3.4 **REPAIR**

.1 Remove damaged, dented, defaced, defectively finished, or tool marked components and replace with new, unless minor blemishes are approved by Consultant.

.2 Only with approval of Consultant, refinish shop applied finishes in field with compatible materials to manufacturer's written instructions.

3.5 **CLEANING**

.1 Remove all strippable protective film from the work as it is erected and prior to moving on to the next bay or grid.

.2 Wash down exposed exterior surfaces using solution of mild non-acidic detergent in warm water, applied with soft clean wiping cloths.

.3 As work progresses, remove excess sealant with recommended solvent and which will not affect metal, finished surfaces, or adjacent surfaces and materials.

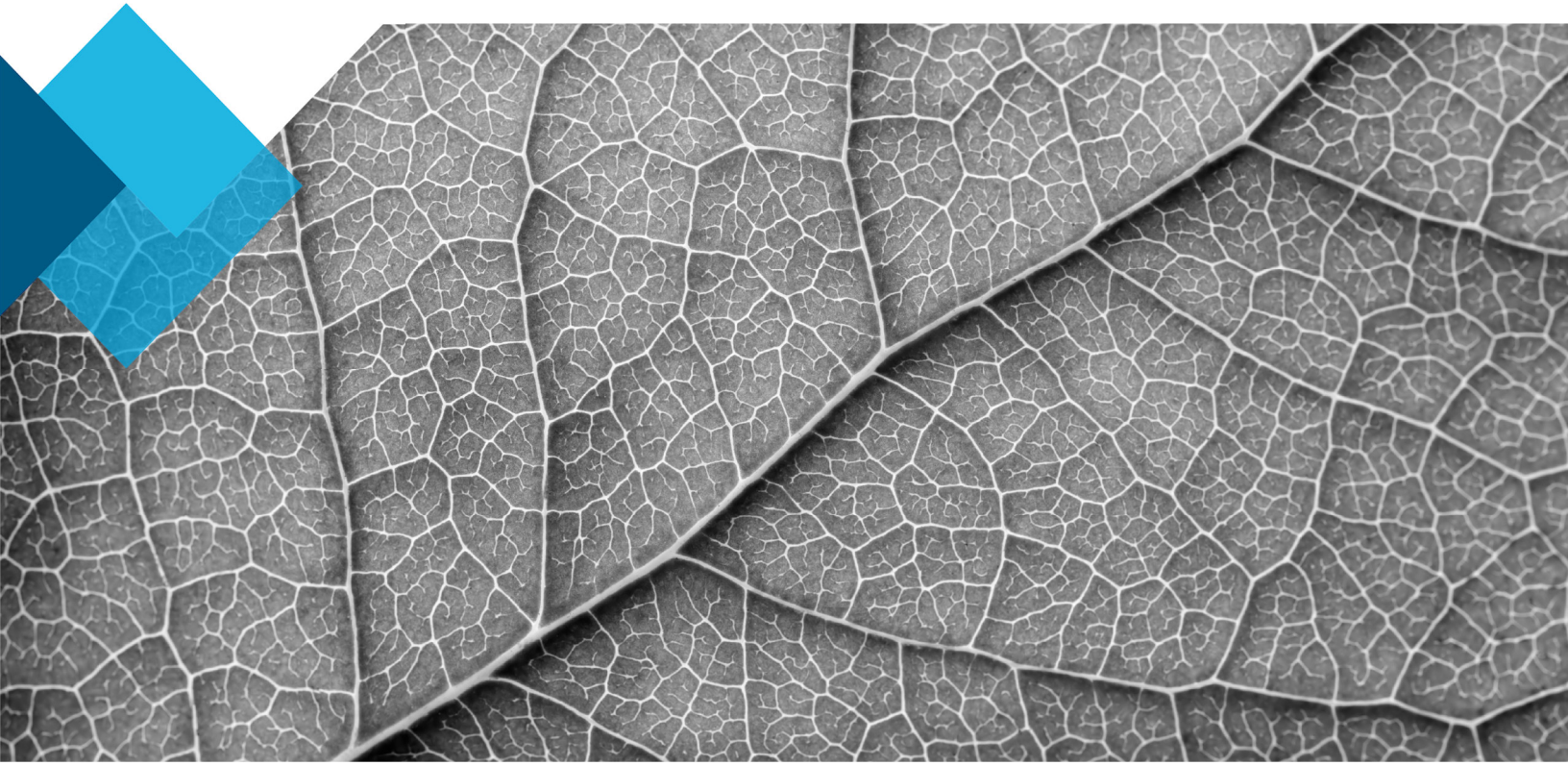
END OF SECTION

SNC·LAVALIN

Phase One Environmental Site Assessment

25 Rutherford Road South, Brampton, Ontario

City of Brampton



Environment & Geoscience

August 9, 2021

Internal Ref.: 671835

Notice to Reader

This report has been prepared and the work referred to in this report has been undertaken by the Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) for the exclusive use of City of Brampton (the Client), who has been party to the development of the scope of work and understands its limitations. The methodology, findings, conclusions, and recommendations in this report are based solely upon the scope of work and subject to the time and budgetary considerations described in the proposal and/or contract pursuant to which this report was issued. Any use, reliance on, or decision made by a third party based on this report is the sole responsibility of such third party. SNC-Lavalin accepts no liability or responsibility for any damages that may be suffered or incurred by any third party as a result of the use of, reliance on, or any decision made based on this report.

The findings, conclusions, and recommendations in this report (i) have been developed in a manner consistent with the level of skill normally exercised by professionals currently practicing under similar conditions in the area, and (ii) reflect SNC-Lavalin's best judgment based on information available at the time of preparation of this report. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our original contract and included in this report. The findings and conclusions contained in this report are valid only as of the date of this report and may be based, in part, upon information provided by others. If any of the information is inaccurate, new information is discovered, site conditions change, or applicable standards are amended, modifications to this report may be necessary. The results of this assessment should in no way be construed as a warranty that the subject site is free from any and all contamination.

Any soil and rock descriptions in this report and associated logs have been made with the intent of providing general information on the subsurface conditions of the site. This information should not be used as geotechnical data for any purpose unless specifically addressed in the text of this report. Groundwater conditions described in this report refer only to those observed at the location and time of observation noted in the report.

This report must be read as a whole, as sections taken out of context may be misleading. If discrepancies occur between the preliminary (draft) and final versions of this report, it is the final version that takes precedence. Nothing in this report is intended to constitute or provide a legal opinion.

The contents of this report are confidential and proprietary. Other than by the Client, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of the Client and SNC-Lavalin.

Executive Summary

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase One Environmental Site Assessment (ESA) for the proposed development portion of the property located at 25 Rutherford Road South in Brampton, Ontario. It is understood that the City already owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which incudes the property triangle in shape (approximately 0.95 hectares [ha] in size; identified as the "City's Property"). The northeast portion of the City's Property, trapezoid in shape (approximately 0.4 ha in size), is to be developed as a Fire Hall and EMS station and herein, is referred to as the "Phase One Property" or the "Site".

This Phase One ESA was completed to meet the requirements for filing of a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.) 153/04, as amended. The Site is located on the west side of Rutherford Road South, approximately 300 m south of the intersection with Queen Street East in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 0.4 ha (1.0 acre) in size.

First developed use of the Phase One Property was determined to be between 1954 and 1963.

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl). The nearest surface water body is an unnamed tributary of the Spring Creek located approximately 35 m south of the Site. Based on the historical monitoring data, shallow groundwater flow was towards the south towards the unnamed creek to the south of the Site.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor. The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

Site observations and review of historical records (fire insurance maps, environmental reports, chain of title, Ministry of Environment, Parks and Conservation [MECP] and EcoLog Eris records, municipal directories and aerial photographs) provided key Site information including:

- Review of the chain of title indicated the Site has been owned by The Corporation of the Town of Brampton since at least 1961 and leased by various corporations over the years. In 1969 and 1970, two easement transfers were registered.
- The review of aerial photographs between 1971 and 1994 identified a commercial/industrial building at the Site.
- A review of the chain of title, EcoLog Eris records and municipal directories identified tenants including Canada-Ferro Company Limited (1963), Kirk Containers Limited (1969), Brock Containers Limited (1972), Imperial General Properties Limited (1978) and Haughs Products Limited (1980 to 1985), Gayla-Haugh Kites Limited (1985), BREW-BY-U (1993), Aircity Home Products (1995), Cameron Kennedy & Associates Limited (1995), Dzign Interior Planning & Project, Lawson & Lawson Business Products Inc (Unit 1; 1995)), Renocan Construction Ltd (1995), Sheer Graphics Inc. in Fantastic Sleep Shop Ltd (1995) and Classic Bedding Ltd. (2001), Bramelea Gynastics Club (Unit 6; 20901), Car Shop & Do It Yourself Centre (Unit 8; 2001), CK & A (Unit 7; 2001), Economic Insurance Glass Replacement

(Unit 3; 2001), Lawson & Lawson Business Products Inc (Unit 1; 2001), TVs Electronics (unit 5; 2001) in 2001 and Kustom Airworks (2006).

- The review of aerial photographs between 1971 and 1994 identified a commercial/industrial building at the Site.
- The review of Ecolog ERIS report listed the City of Brampton as registered waste generator for paint/pigment/coating residues in 2009. The 2013 aerial photograph indicated that the historical building on-Site had been demolished and was then used by the City as a storage yard.

Based on the specific observations for the Phase One Property and historical records review, on-site Areas of Potential Environmental Concern (APECs) associated with current and historical Potential Contaminating Activities (PCAs) and Areas of Interest (AOI) are presented below. AOI are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the MECP definition of a PCA.

- Potential impacts due to historical activities associated with Car Shop & Do It Yourself Centre.
- Fill was identified during previous subsurface investigations completed at the Site.
- Potential impacts due to historical activities associated with paint storage by Kustom Airworks and the City of Brampton's use of the Site as a storage yard.
- Potential impacts due to historical activities associated with cardboard container manufacturing by Kirk Containers Ltd and Brock Containers Limited.
- Potential impacts due to historical activities associated with automobile parts manufacturing by Canada-Ferro Company Limited.

Based on the specific observations for the Phase One Study Area, the following off-Site PCAs and AOI were identified:

- Potential impacts due to historical activities associated with Car Shop & Do It Yourself Centre located immediately to the south and west.
- Potential impacts due to historical activities associated with paint storage by Kustom Airworks and the City of Brampton's use of the Site as a storage yard located immediately to the south and west.
- Potential impacts due to historical activities associated with cardboard container manufacturing by Kirk Containers Ltd and Brock Containers Limited located immediately to the south and west.
- Potential impacts due to historical activities associated with automobile parts manufacturing by Canada-Ferro Company Limited immediately to the south and west.
- Potential impacts due to current activities associated with manufacturing of electronic signs by Signage & Lighting System Inc. located immediately to the north.
- Potential impacts due to current and historical activities associated with truck repairs and storage of trucks by Rapri Truck Repair Centre and Super Fast Trucklines located immediately to the north.
- Potential impacts due to current and historical activities related to bulk paint storage by C-Max Paint and Signage & Lighting System Inc. located immediately to the north.
- Potential impacts due to historical activities associated with automobile parts manufacturing by Canada Ferro Co Ltd. located immediately to the north.

Based on the historical use of the Site for commercial autobody shops, importation of fill of unknown quality, paints manufacturing and bulk storage, paper manufacturing, vehicles parts manufacturing and electronic equipment manufacturing and truck repair to the north; potential contaminants of concern were identified as benzene, toluene, ethylbenzene, xylene (BTEX), petroleum hydrocarbon fractions (PHC) F1 to F4, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals and inorganics to soil and groundwater.

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Appendices

1 Introduction

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase One Environmental Site Assessment (ESA) for the proposed development portion of the property located at 25 Rutherford Road South in Brampton, Ontario. It is understood that the City already owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which incudes the property triangle in shape (approximately 0.95 hectares [ha] in size; identified as the "City's Property"). The northeast portion of the City's Property, trapezoid in shape (approximately 0.4 ha in size), is to be developed as a Fire Hall and EMS station and herein, is referred to as the "Phase One Property" or the "Site".

This Phase One ESA was completed to meet the requirements for filing of a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.) 153/04, as amended.

1.1 Phase One Property Information

The Site is located on the west side of Rutherford Road South, approximately 300 m south of the intersection with Queen Street East in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 0.4 ha (1.0 acre) in size. The City already owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which incudes the property triangle in shape (approximately 0.95 ha in size; identified as the "City's Property"). The north portion of the City's Property, the Site, is to be developed as a Fire Hall and EMS Station.

The Site is currently vacant and consists of a paved area in the northeast portion of the Site with a gate to access the Site from Rutherford Road. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. A wooden shed and shingles, identified in previous investigations, was observed in the central portion adjacent to the north boundary of the Site.

The Site is primarily flat with a gentle downward slope to the south. The Site is bounded by Rutherford Road South to the east, industrial/commercial properties to the north, and the remainder of the City's Property with the municipal address of 25 Rutherford Road South to the south and west. The Site is currently vacant.

A Phase One and Phase Two ESAs were completed at the City's Property, which includes the Site, in 2018. In addition, a supplemental Phase II ESA was completed at the City's Property in 2019. No other investigations or assessments were completed for the remainder of the Site.

The layout of the Phase One Property is shown on Figure 2.

1.2 Contact Information

Site Owner	City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2
Person Requesting the Phase One ESA	Ms. Reshma Fazlullah Project Coordinator Building Design and Construction City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2 Telephone: 416-845-4237

2 Scope of the Investigation

The purpose of this Phase One ESA is to identify potentially contaminating activities (PCAs) that may have impacted the Site. This Phase One ESA was also requested to satisfy the requirements for the filing of a RSC.

The objectives of this Phase One ESA are to:

- Identify areas of potential environmental concern (APECs) and preferential contaminant migration pathways.
- Determine the need for further investigations and the basis for carrying out such investigations.

To meet the objectives described above, SNC-Lavalin completed the following work:

- Reviewed available historical and environmental information for the Phase One Property.
- Completed a Site reconnaissance to observe the current condition of the Phase One Property and Study Area (i.e., all properties within 300 m from the boundaries of the Phase One Property).
- Conducted Interviews with personnel with knowledgeable of the Phase One Property.
- Provided conclusions based on an evaluation of information gathered during this investigation.

The Phase One work program was based on the Canadian Standards Association (CSA) “Phase One Environmental Site Assessment” Standard Z768-01 (CSA, 2001) and O. Reg. 153/04 as amended, subject to the following study limitations:

- A Phase One ESA does not constitute a Compliance Audit. No review of environmental regulatory compliance was carried out as part of this assessment.
- No soil, water or other samples were collected or analysed as part of this work program.
- The review of files and records pertaining to the Phase One Property was limited to the available information provided to SNC-Lavalin by the City.
- Inspections of surrounding properties were limited to visual observations from the Phase One Property and from publicly accessible vantage points.

3 Records Review

SNC-Lavalin conducted a review of historical and environmental records relating to the Phase One Property and adjacent properties to identify evidence of actual or potential contamination in connection with the Phase One Property.

3.1 General Information

3.1.1 Phase One Study Area Determination

The Phase One Property is described as follows:

Address:	25 Rutherford Road South, Brampton, Ontario
Legal Description:	Parts 1, 2 and 3 of Part of Lot 13; Registered Plan No. 644; Part of PIN 14032-0049, City of Brampton
Location:	Approximately 300 m south of the intersection with Queen Street East.
Approximate Size:	Approximately 1.0 acre (0.4 ha)
Zoning:	Industrial (M2) (City of Brampton Zoning By-Law 270-2004)
Current Use:	Vacant

The layout of the Phase One Property is shown in Figure 2. A current plan of survey of the Phase One Property providing the legal description of the property is included in Appendix A.

The surrounding properties are predominantly zoned as Industrial (M2, FD) or Commercial (HC1) or under the City of Brampton Zoning By-Law 270-2004.

For the purpose of this investigation, the following properties were identified as being adjacent to the Phase One Property:

- **North:** Commercial/industrial development with parking lot (19 Rutherford Road South; Industrial [FD] zoning);
- **South:** Vacant land including the remainder of the City's Property having the same municipal address with an unnamed creek beyond (25 Rutherford Road South; Industrial [M2] zoning);
- **East:** Rutherford Road with commercial/industrial development beyond (32 Rutherford Road South; Industrial [FD] zoning); and,
- **West:** Vacant land including the remainder of the City's Property having the same municipal address with an unnamed creek beyond (25 Rutherford Road South; Industrial [M2] zoning);

The Phase One Property and all properties located wholly and/or partially within 300 m of the Phase One Property, are shown on Figure 3. Surrounding Land Use is also shown on Figure 3. Based on the current and historical records reviewed as part of this investigation, it was determined that the Phase One Study

Area would include all properties within 300 m from the boundaries of the Site. No issues of significant environmental concern were identified through the review of historical records to suggest that the Phase One ESA Study Area should be expanded.

3.1.2 First Developed Use Determination

The review of the aerial photographs showed residential and/or agricultural land use associated with the Phase One Property in 1954. A review of the chain of title indicated the property has been owned by the Corporation of the Town of Brampton since at least 1961, however, it does not indicate from whom the property was transferred from or whether the Corporation of the Town of Brampton had owned the property prior to 1961. The chain of title identified the Site was leased by Canada-Ferro Company Limited in 1963. A review of the 1971 Fire Insurance Plans (FIPs) indicates the company was an automobile part manufacturing business but located on the adjacent north property at the time rather than on the Phase One Property.

Based on the above information, the first developed use of the Phase One Property was determined to be between 1954 and 1963.

3.1.3 Fire Insurance Plans (FIPs)

OPTA Information Intelligence (OPTA) was contracted through EcoLog ERIS to obtain property underwriters' FIPs through their Historical Environmental Services Enviroscan™ (Enviroscan) for the site and surrounding properties. In their response dated April 7, 2020, OPTA indicated that FIPs from 1971 are available for the Site and surrounding area. A copy of the FIP response is provided in Appendix B. The 1971 FIPs were reviewed and pertinent findings are summarized below:

Location	Address	Features Identified
City's Property, including the Site and, adjacent south and west properties	25 Rutherford Road South	Cardboard Containers Manufacturing, Kirk Containers Ltd., with an office labelled in the east portion of the building, loading dock labelled in the south portion, paper boiling labelled adjacent to the south wall and a process steam generator in the northwest corner of the building. Power was provided by electric motor and heat was provided by natural gas fired suspended unit heaters and roof furnace. The building was labelled "silent March 1971".
Adjacent North (Approximately 32 m north of the Site)	19 Rutherford Road South	Automobile Parts Manufacturing, Canada Ferro Co Ltd. with the main building labelled as stamping assembly shipping. Power was provided by electric motor and heat was provided by gas fired unit heaters and one low pressure hot water boiler. Another small building labelled as 19A is used as a storage. A transformer is located south of the building.
Adjacent East (Approximately 35 m east of the Site)	1 Davidson Road (Currently Clark Boulevard; 36 Rutherford Road South)	A building with areas for offices, parts and transport repairs. Three underground storage tanks labelled to the south of the building.

Location	Address	Features Identified
Adjacent East (Approximately 46 m northeast of the Site)	28 Rutherford Road South	A building labelled as welding & fabricating.
Adjacent East (Approximately 61 m east of the Site)	32 Rutherford Road South	Manufacturer of concrete planters, fountains, and etc. The main building, 32A is labelled for manufacturing and a storage area to the east of the building. To the north of the main building was a structure labelled as a sand & stone bins at 32 B. Two storage areas, labelled as 32C and 32D, are located in the northeast portion of the property.
Approximately 118 m north of the Site	12 Rutherford Road South	Thermo Electric Canada Ltd. with a building labelled for uses including manufacturing, office, machine shop and assembly, wire braiding, welding, storage and shipping. Two areas labelled for storage and auto purposes were located to the east of the main building.
Approximately 97 m northeast of the Site	24 Rutherford Road South	A building labelled for industrial supplies with storage, stock and office areas.
Approximately 70 m northeast of the Site	26 Rutherford Road South	A building labelled as a machine shop with an office in the west portion of the building.
Approximately 131 m south of the Site	35 Rutherford Road South	Travelling Crane Manufacturing, Pre-Con Ltd, with the building labelled as follows: - A storage area in the south portion of the property labelled as 35A. An UST is located northeast of this building. To the east of the building is another building labelled as draughting office and office. A transformer was located to adjacent to the west wall of the building. - The central portion of the main building is labelled for flammable liquid storage and the west portion was used for polishing. This area was labelled as 35B. - To the south is the lunch room and the maintenance storage and labelled as 35C. - In the northeast portion of the main building is 35D for wire cutting and batching plant and 35E for wood working. - In the northwest portion of the main building is 35G for mixing, sand and gravel area with a conveyor belt and sand hopper ramp. - In the north portion of the main building is labelled as 35F for finishing.
Approximately 180 m north of the Site	6 Rutherford Road South	A building used for equipment rentals.

Location	Address	Features Identified
Approximately 160 m north of the Site	8 Rutherford Road South	Brampton Water Works with areas for equipment storage and office. St. John Ambulance class room was located east to the main building. A 1,000,000 Gallons water works supply tank was located to the east of the building.
Approximately 100 m south of the Site	38 Rutherford Road South	A substation with a transformer in the east portion.
Approximately 200 m south of the Site	49 Rutherford Road South	Pharmaceutical glass tubes manufacturing, Wheaton Glass Plastics, with a transformer in the south portion of the property and a liquid air tank north of the building.
Approximately 110 m south of the Site	52 Rutherford Road South	A building for trucks and equipment and 2 USTs to the south of this building.
Approximately 265 m south of the Site	98 and 100 Rutherford Road South	Rutherford Realty Co. Ltd, with multiple rooms including warehouse for auto parts and TV and Radio, manufacturing of paint rollers, auto trim and air filters and air conditioners repairs. A fuel oil tank is located in the central portion of the property.
Approximately 500 m south of the Site	110 Rutherford Road South	Two buildings located at both ends of the property and both labelled as vacant. An UST is located in the west portion of the property. Three pole transformers are located in the north portion of the property.
Approximately 100 m east of the Site	12 Davidson Road (Currently Clark Boulevard)	A building labelled as vacant.
Approximately 130 m east of the Site	19 & 21 Davidson Road (Currently Clark Boulevard)	Concrete slab manufacturing with two buildings and a transformer oil tank located in the southern portion of the property.
Approximately 190 m east of the Site	25 Davidson Road (Currently Clark Boulevard)	Two buildings used for builder's supplies.

Location	Address	Features Identified
Approximately 200 m east of the Site	34 Davidson Road	Manufacturer of fire fighting safety equipment with a building labelled with a foundry and for melting furnaces.
Approximately 210 to 265 m west of the Site	6 Hansen Road	A building for auto transmission service.
	8 Hansen Road	A building used as a sheet metal shop.
	10 Hansen Road	A building used for auto repairs.
	12 Hansen Road	Peel Gas Equipment Ltd. with a building used as storehouse,
	14 Hansen Road	A building labelled as an autobody shop to be.
	16 Hansen Road	A building used for conveyor manufacturing.
Approximately 113 m north of the Site	253 Queen East (Highway 7)	Sheller Globe Corp for manufacturing of automobile steering wheels including areas for injection moulding, finishing and assembly and light metal working. A transformer was located in the west corner of the building.
Approximately 150 m north of the Site	255 Queen East (Highway 7)	American Sterilizer Co. of Canada Ltd. for hospital equipment manufacturing with areas labelled as spray booth, machine shop and sheet metal assembly and polishing. Three pole transformers located adjacent to the northeast corner of the building. A gas pressure control station was located in the northeast portion of the property.
Approximately 188 m north of the Site	263 Queen East (Highway 7)	Chubb-Mosler & Taylor Safes Ltd. for manufacturing of safes, security equipment and etc. with areas used for offices, manufacturing, storage, locker room, paint storage, cement mixing and crane bays. A transformer was located in the northeast portion of the property.
Approximately 260 to 300 m north of the Site	249 Queen East (Highway 7)	Rice Development Co. with multiple rooms labelled to be used for auto supplies, printing, machine shop, degreasing and office.
	251 Queen East (Highway 7)	A building used for auto muffler service.
	265 Queen East (Highway 7)	A building used as a veterinary hospital.
	267 Queen East (Highway 7)	A building used as a store.
	269 Queen East (Highway 7)	A building used as a store. An UST was located adjacent to the southwest corner of the building. A building, labelled as 269A, used as a storage was located further to the south.
	275 Queen East (Highway 7)	A building used as a plumbing & heating supplies storehouse.

Location	Address	Features Identified
	279 Queen East (Highway 7)	A building with areas used for electric supplies, machine shop, auto supplies, shop and rentals, and machine shop.
Approximately to 350 to 400 m north of the Site	300 Queen East (Highway 7)	Building with a showroom and office and areas used for auto repairs and body shop.
	310 Queen East (Highway 7)	A building with areas labelled as auto repairs, body shop, paint shop, offices and showroom. A car lot with a UST was located in the southeast portion of the property. A car compound was located in the northeast portion of the property.
	320 Queen East (Highway 7)	A building with areas used for auto repairs, body shop, parts and showroom. Another smaller structure with a ramp and used for offices was located to the east of the main building. An UST was located in the southeast portion of the property.
	324 Queen East (Highway 7)	A building used for auto repairs, part and showroom.
	338 Queen East (Highway 7)	Sampson Building with a building use as a store.
	344 Queen East (Highway 7)	A building used as a drive-in restaurant.
	354 Queen East (Highway 7)	A carwash with a UST in the east portion of the property.

3.1.4 Chain of Title

A copy of the chain of title search completed as part of the previous Phase One ESA for the City's Property (G2S, 2018; see Section 3.1.5 below) was reviewed to identify historical ownership. A copy of the previous search results is provided in Appendix C.

The current Phase One Property, as part of the City's property with the multiple address of 25 Rutherford Road South, has been owned by the Corporation of the Town of Brampton since at least 1961 and leased by various corporations over the years including Canada-Ferro Company Limited (1963), Kirk Containers Limited (1969), Brock Containers Limited (1972), Imperial General Properties Limited (1978) and Haughs Products Limited (1980). In 1969 and 1970, two easement transfers were registered.

3.1.5 Environmental Reports

A Phase One ESA and a Phase Two ESA documenting environmental investigations were completed at the City's Property in 2018 (G2S, 2018 a and b). Then a Supplemental Phase Two ESA investigation was also completed at the City's Property in 2019 (Wood, 2019). The findings from these reports are summarized below.

Phase I ESA

- The property (25 Rutherford Road South) was developed as a storage yard and used by the City of Brampton during the time of the investigation. No permanent buildings were located on the City's Property, including the Phase One Property, and with the following identified:
    - The lot was developed with paved areas along the east property boundary and the remainder of the property was covered by dirt or gravel.
    - Three concrete storage areas, containing raw lumber and mulch, were located in the center of the property.
    - A guardhouse was located along the central north property boundary.
    - Skids of bricks were located in the northeast portion of the property.
    - A maintenance hut was located on the northwest corner of City's Property (i.e. adjacent west of the Site), containing 3 jerry cans.
    - Sea can containers for storage were located on the northwest and southeast corners of the City's Property (i.e. adjacent west and adjacent east of the Site).
- APEC potentially affecting soil and groundwater on the property include:
    - Historical industrial use of the property by Kirk Containers Ltd. for carboard manufacturing in 1971, and Kustom Airworks for use and bulk storage of paints in 2006 (on-site; entire property)
    - Historical industrial use of the north adjacent property (19 Rutherford Road South) by Canada Ferro Co Ltd. for automobile parts manufacturing from 1967 to 1981, and for sign manufacturing by Signage and Lighting Systems Inc. from 2006 to 2008 (Northern Portion of the property)
- It was recommended that further investigations be completed to investigate potential environmental impacts in soil and groundwater from the identified APECs.

Phase II ESA

- A total of twelve boreholes (BH101 to BH107 and BH201 to BH205) were advanced on the City's Property with five of these boreholes (BH101 to BH105) installed as groundwater monitoring wells (MW101 to MW105). Six of these boreholes and monitoring wells (BH101/MW101, BH102/MW102, BH103/MW103, BH106, BH202 and BH203) were advanced to depths between 2.10 and 5.92 m bgs on the Phase One Property. Borehole and monitoring well locations are shown in Figure 2.
- Stratigraphy was noted in the boreholes located on the Phase One Property consists of fill material to a depth of approximately 1.2 m underlain by clayey silt to depths ranging between 2.4 and 3.6 m bgs underlain by bedrock to the maximum depth of investigation of 5.9 m bgs. Grain size analysis from the native material indicated predominant soil type was medium-fine textured.
- The depth to water noted in the monitoring wells located on the Phase One Property (MW101, MW102 and MW103) were between 2.22 m and 4.55 m bgs.
- Concentrations of metals in the soil sample collected from BH102 at a depth of 0 and 1.2 m bgs exceeded the MECP Table 9 Site Condition Standards (SCS) for All Types of Property Use within 30 m of a Water Body, in Non-potable Groundwater Conditions.

- Concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbons fractions F1 to F4 (PHCs F1 to F4), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) in the remaining analysed soil samples were below the MECP Table 9 SCS.
- Concentrations of BTEX, PHCs F1 to F4, VOCs, metals, and PAHs in analysed groundwater samples met the MECP Table 9 SCS.
- It was concluded that results of the investigation did not meet MECP Table 9 SCS and a remediation or risk assessment would be required to address the metal soil impacts in order to file for a Record of Site Condition (RSC).

Supplemental Phase II ESA

- Three boreholes (BH19-1 to BH19-3) were advanced on the City's Property and all of which were instrumented as groundwater monitoring wells. In addition, eight test pits (TP19-1 to TP19-8) were excavated on the City's Property. One monitoring well (BH19-2) and three test pits (TP19-2, TP19-4 and TP19-8) were located on the Phase One Property. Borehole, monitoring well and test pit locations are shown in Figure 2.
- Soil and groundwater results from boreholes, test pits, and monitoring wells within 30 m of the creek located adjacent south of the property was compared to the MECP Tables 8 and 9 SCS for Use within 30 m of a Water Body in a Potable Groundwater Condition, Residential/Parkland/Institutional/Industrial/Commericial/Community property use.
- Soil and groundwater results boreholes, test pits, and monitoring wells beyond 30 m of the creek located adjacent south of the property was compared to the MECP Table 3 SCS, non-potable groundwater condition, Residential/Parkland/Institutional property use, medium to fine textured soils.
- Stratigraphy from observations in borehole BH19-2 on the Phase One Property was noted to be sand and silt fill material to a depth of approximately 0.6 m bgs underlain by sand and gravel fill to a depth of approximately 1.4 m bgs, underlain by sandy silt to 2.2 m bgs underlain by sand and gravel to the maximum depth of investigation of 4.4 m bgs. A grain size sample collected from test pit TP19-2 at a depth of 0.3 to 0.7 m bgs was noted to be coarse textured, however, grain size analysis from the native material across the City's Property indicated predominant soil type is medium-fine textured.
- Based on results from September 15, 2019, shallow horizontal groundwater flow direction on the Phase One Property was towards the south to southeast direction.
- Results of this investigation identified soil and groundwater impacts on the Phase One Property:
    - Elevated EC values above Table 2 and 3 SCS identified in soil sample collected at a depth from surface to 0.7 m bgs in test pit TP19-8, located by the north property boundary.
    - Groundwater with sodium and chloride concentrations above the Table 2 and 3 SCS was identified in monitoring well MW101.
    - Groundwater with elevated antimony concentrations above the Table 2 SCS was identified at monitoring well BH19-2 located along the north property boundary.
- The pH of soil samples collected at the Site were generally within the range of 5 to 9 for surface soil samples (0 to 1.5 m bgs) and within the range of 5 to 11 for subsurface samples (>1.5 m bgs) with the exception of the sample collected at 0.1 to 0.7 m bgs from test pit TP19-2 (pH of value 10.8) and the sample collected at 0.7 m bgs from test pit TP19-8 (pH value of 11.7).

- The estimated amount of soil impacted with metals on the City's Property was estimated to approximately 300 m^3 (600 tonnes) with a portion of which is located on the Phase One Property. The groundwater with sodium/chloride and antimony impacts would require further site assessment.

3.2 Environmental Source Information

3.2.1 EcoLog ERIS Database Information

A copy of the EcoLog ERIS report requested in 2020, including a complete listing of the databases searched is provided as Appendix D.

Information that may be pertinent to the environmental condition of the Phase One Property is discussed below.

Phase One Property:

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
25 Rutherford Rd. S, Unit 2 (Classic Bedding Ltd.)	N/A	SCT	1988	Business established in 1988 for manufacturing of mattresses.
25 Rutherford Rd. S, Unit 2 (Fantastic Sleep Shop Ltd.)	N/A	SCT	1988	Business established in 1988 for manufacturing of mattresses.
25 Rutherford Rd. S, Unit 4 (BREW-BY-U)	N/A	SCT	1993	Business established in 1993 for production of malt beverages, wines, brandy and brandy spirits.
25 Rutherford Rd. S. (Kustom Airworks)	N/A	GEN	2006	Listed as registered waste generator for aromatic solvents.
25 Rutherford Rd. S. (City of Brampton)	N/A	GEN	2009	Listed as registered waste generator for paint/pigment/coating residues.

List of Databases:
GEN – Ontario Regulation 347 Waste Generators Summary
SCT – Scott's Manufacturing Directory

The following relevant environmental records were identified in the ERIS report for the other properties within 300 m of the site.

Surrounding Properties:

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
19 Rutherford Rd. S. (C-Max Paint)	Approximately 32 m north of the Site	GEN	2006, 2009 to 2011, 2013 to 2016, 2018 and 2019	Listed as registered waste generator for paint/pigment/coating residues and aromatic solvents.
19 Rutherford Rd. S. (Signage & Lighting Systems Inc.)	Approximately 32 m north of the Site	SCT	2003	Business established in 1993 for manufacturing of all other electrical equipment and components, semiconductor and other electronic components and signs.
		CA/EBR/ ECA	2008	The Certificate of Approval, Environmental Registry Environmental Compliance Approval databases identified the business as approved for air discharge into the natural environment other than water.
		GEN	2014, 2015, 2016, 2018, 2019	Listed as registered waste generator for aromatic solvents and residues and wastes from the use of pigments, coatings and paints.
19 Rutherford Rd. S. (Brampton Lumber Home Hardware)	Approximately 41 m north of the Site	PES	NA	Listed as a limited vendor and vendor under the Pesticide Register.
		EXP	NA	Listed as an expired fuel safety facility for cylinder exchange.
19 Rutherford Rd. S. (Access Waste Management Inc.)	Approximately 41 m north of the Site	CA/ECA	2009	The Certificate of Approval and Environmental Compliance Approval databases identified the business as approved for waste management systems.
		SPL	January 2012	A spill of 1,000 L of diesel to a catch basin due to vandalism. Contamination reported as confirmed for surface water.

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
19 Rutherford Rd. S. (Rapri Truck Repair Centre)	Approximately 41 m north of the Site	GEN	2012	Listed as a general automotive repair business with a registered waste generator number. No information on waste classification is provided.
Clark Boulevard and Queen Street East (The Regional Municipality of Peel)	Approximately 18 m southeast of the Site	ECA	2003	The Environmental Compliance Approval database identified approved municipal drinking water systems.
28 Rutherford Rd. S. (Custom Autobody Repair and Refinishing Inc.)	Approximately 46 m northeast of the Site	EASR	2016	Listed as a registered automotive refinishing facility.
32 Rutherford Rd. S. (Knecht & Berchtold Inc.)	Approximately 61 m east of the Site	SCT	1953	Business established in 1953 for manufacturing of institutional furniture, concrete products, except bricks and blocks, and other concrete products.
32 Rutherford Rd. S. (Aggregation Contract Furniture)	Approximately 61 m east of the Site	SCT	1989	Business established in 1989 for manufacturing of concrete products, except bricks and blocks, and other concrete products.
24A Rutherford Rd. S. (ICI Paints (Canada) Inc.)	Approximately 97 m northeast of the Site	GEN	1996 to 2001, 2004 to 2006	Listed as registered waste generator of halogenated solvents, residues of paint, pigment and coating, and petroleum distillates.
24A Rutherford Rd. S. (Akzo Nobel Paints LLC)	Approximately 97 m northeast of the Site	GEN	2009, 2010	Listed as registered waste generator of residues of paint, pigment and coating.
Queen St E from Centre Street to Highway 410 (The Corporation of the City of Brampton)	Approximately 77 m west of the Site	ECA	2009	The Environmental Compliance Approval database identified approved municipal and private sewage works.
35 Rutherford Rd. S.	Approximately 131 m south of the Site	PRT	NA	The Private and Retail Fuel Storage Tanks database identified licence issued to the business for a private

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
(Pre-Con Company - Etobicoke Creek Brampton Plant)				storage tank with a capacity of 20,000 L.
	Approximately 131 m south of the Site	GEN	1986 to 1990 and 1992 to 2001, 2003 to 2012, 2014, 2015 and as of October 2019	Listed as registered waste generator of detergents/soaps, polymeric resins, amines, latex wastes, alkaline wastes (other metals), acid waste (other metals), oil skimmings and sludges, aliphatic solvents, petroleum distillates, light fuels, emulsified oils, residues of paint, pigment and coating, waste crankcase oils and lubricants, wastes from the use of pigments, coatings and paints, and waste oils/sludges (petroleum based).
		SPL	January 1990	A spill high suspended solids (lime) to the creek by Pre-Con due to a pipe/hose leak. Contamination reported as possible to water course or lake.
	Approximately 131 m south of the Site	FSTH	1992	The fuel storage tank database identified two 100,000 L active gasoline fuel single wall USTs installed in 1984 (tank status active as of December 2008) for private fuel outlet operations.
		CA	2000	The database identified an application for the revocation of Certificate of Approval as the discharge of treated process water has been discontinued.
		EXP	2014	The List of Expired Fuels Safety Facilities identified two expired liquid fuel tanks at the private fuel outlet.
	Approximately 131 m south of the Site	NPRI	2007	The National Pollutant Release Inventory identified a substance release report of a total of all media

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
				less than 1 tonne including copper, particulate matter of less than 2.5 microns (0.395 tonne), nickel, calcium oxide (.018 tonne) and manganese.
			2008	The National Pollutant Release Inventory identified a substance release report of a total of all media less than 1 tonne including copper, nickel, and manganese.
	Approximately 131 m south of the Site	EBR	2008	The Environmental Registry identified an approval for discharge into the natural environmental other than water (i.e. Air).
	Approximately 131 m south of the Site	SPL	April 2019	An on-going environmental non-compliance at the business was reported.
35 Rutherford Rd. S. (Armtec/Pre-Con)	Approximately 131 m south of the Site	SCT	1958	Business established in 1958 for wood preservation and other concrete product manufacturing.
35 Rutherford Rd. S. (Armtec GP Inc.)	Approximately 131 m south of the Site	GEN	2015 2016	Listed as registered waste generator of waste oils and lubricants.
		EBR	2017	The Environmental Registry identified the business with Environmental Compliance Approval for air.
35 Rutherford Rd. S. (Cooney Bulk Sales Limited)	Approximately 131 m south of the Site	SPL	February 2019	A spill of 400 L of diesel to the ground due to equipment failure. The spill was contained.
35 Rutherford Rd. S. (L.M. Generating Power)	Approximately 131 m south of the Site	SPL	February 2019	A spill of 150 L of coolant from a generator to the asphalt.
12 Rutherford Rd. S. (Thermo Electric Canada Ltd.)	Approximately 118 m north of the Site	SCT	1953	Business established in 1953 for drawing and insulating of nonferrous wire, automatic controls for regulating residential and commercial environments and appliances and industrial

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
				instruments for measurement, display and control of process variables and related items, measuring and controlling devices, industrial machinery, equipment and supplies wholesaler-distributors and electronic components, navigational and communications equipment and supplies wholesaler-distributors.
		GEN	1986 to 1990, 1992, 1993 to 2001, 2010	Listed as registered waste generator of petroleum distillates, halogenated solvents, emulsified oils and other specified inorganics
16 Rutherford Rd. S. (Reagency Systems Corp.)	Approximately 118m north of the Site	SCT	N/A	Business established for magnetic and optical recording media, and manufacturing and reproducing magnetic and optical media.
52 Rutherford Rd. S. (Contractor)	Approximately 133 m south of the Site	SPL	September 1993	A spill of alkyd rust proof resin to the storm sewer and creek (volume not reported) due to an error by a contractor; confirmed water course or lake contamination.
52 Rutherford Rd. S. (Corporation of the City of Brampton)	Approximately 133 m south of the Site	GEN	1989,1990, 1992 to 2001, 2006 to 2008 and as of December 2018	Listed as registered waste generator of aliphatic solvents, light fuels and residues, waste oils/sludges (petroleum based), inert inorganic wastes, heavy fuels and waste crankcase oils and lubricants.
		FST/FSTH	1990	The fuel storage tank database identified two 22,730 L active gasoline and diesel fuel single wall steel USTs installed in 1978 (tank status active as of August 2007) for private fuel outlet operations.
		PRT	1999	The Private and Retail Fuel Storage Tanks database identified licence issued to the business for a private storage tank with a capacity of

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
				45,450 L.
36 Rutherford Rd. S. (Premier Peterbilt Inc.)	Approximately 114 m east of the Site	CA	1997	The database identified an application for Certificate of Approval for discharge of industrial air derived from fuel furnace.
		EBR	1997, 2005	The Environmental Registry identified the business with Environmental Compliance Approval for discharge into the natural environment other than water (i.e. air.)
36 Rutherford Rd. S. (CRS Contractors Rental Supply)	Approximately 114 m east of the Site	GEN	2014 to 2016 and as of December 2018	Listed as registered waste generator of aliphatic solvents and residues, petroleum distillates, light fuels, waste oils and lubricants, aliphatic solvents, oil skimmings and sludges, waste oils/sludges (petroleum based) and waste crankcase oils and lubricants.
		SPL	November 2017	A spill of 30 L of hydraulic oil to asphalt due to equipment failure. The spill was contained.
36 Rutherford Rd. S. (Sunbelt Rentals of Canada Inc.)	Approximately 114 m east of the Site	GEN	As of October 2019	Listed as registered waste generator of crankcase oils and lubricants, aliphatic solvents and residues, petroleum distillates, light fuels and waste oils/sludges (petroleum based).
35 Rutherford Rd. S. (AP Infrastructure Solutions LP.)	Approximately 143 m south of the Site	GEN	As of October 2019	Listed as registered waste generator of miscellaneous wastes and inorganic chemicals, wastes from the use of pigments, coatings and paints, amines, aromatic solvents and residues, waste compressed gases including cylinders, acid solutions (containing heavy metals, miscellaneous waste organic chemicals, polymeric resins, heavy fuels, organic acids, aliphatic solvents and residues,

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
				waste oils/sludges (petroleum based), waste crankcase oils and lubricants, emulsified oils, petroleum distillates, other specified organic sludges, slurries or solids, other polymeric wastes and alkaline phosphates.
10 Rutherford Rd. S.	Approximately 152 m north of the Site	HINC	2008	The TSSA Historical Incidents databased listed a strike of a pipeline containing natural gas.
12 Clark Blvd. (1060644 Ontario Inc.)	Approximately 139 m east of the Site	CA	1995	The database identified a Certificate of Approval for air discharge of suspended particulate matter, nitrogen oxides, zinc and sulphur dioxides.
12 Rutherford Rd. S.	Approximately 139 m east of the Site	HINC	2006	The TSSA Historical Incidents databased listed a strike of a pipeline containing natural gas.
12 Rutherford Rd. S. (Quality Collision Centre Inc.)	Approximately 139 m east of the Site	SPL	March 2016	A spill of diesel fuel due to equipment failure resulting in a rainbow sheen at the Tilbury Court storm channel (volume not reported).
8 Rutherford Rd. S. (The Corporation of the City of Brampton)	Approximately 160 m north of the Site	GEN	2013 to 2016 and as of October 2019	Listed as registered waste generator of pathological waste and waste oils/sludges (petroleum based).
263 Queen Street E. (Untied Hardware)	Approximately 188 m north of the Site	PES	N/A	Listed as a vendor under the Pesticide Register.
263 Queen Street E. (Sanderson LW Resource and Reco)	Approximately 188 m north of the Site	SPL	July 1997	A spill of liquid food waste to the catch basin from a garbage truck (volume not reported). Contamination not anticipated.
263 Queen Street E.	Approximately 188 m north of the Site	INC	2015	A carbon monoxide release from water heater installed in unconditioned space.

Address/Business Name	Approximate Distance to the Site	Database Reviewed	Year	Potentially Contaminating Activities (PCAs)/Area of Interest (AOI)
263 Queen Street E. (Bayer Inc.)	Approximately 188 m north of the Site	GEN	2014	Listed as registered waste generator of alkaline wastes (other metals).
19 Clark Blvd. (Able Truck & Car Rentals)	Approximately 161 m east of the Site	GEN	1997 to 2001	Listed as registered waste generator of oil skimmings and sludges, and waste oils and lubricants.
21 Clark Blvd. (Signage Systems)	Approximately 196 m east of the Site	SCT	1989	Business established in 1989 for sign manufacturing.
21 Clark Blvd. (Signage Systems – Div. of 865331 Ontario Limited)	Approximately 196 m east of the Site	SCT	1989	Business established in 1989 for the manufacturing of semiconductor and other electronic components, all other electrical equipment and components and signs.
	Approximately 196 m east of the Site	GEN	1995 to 2004	Listed as registered waste generator of paint/pigment/coating residues, aromatic solvents, and waste oils and lubricants.
21 Clark Blvd. (Golden Automobiles & Collision Centre Limited)	Approximately 196 m east of the Site	EBR	2004	The Environmental Registry identified the business with Environmental Compliance Approval for discharge into the natural environment other than water (i.e. air.)
	Approximately 196 m east of the Site	CA/ECA	2004	The Certificate of Approval and Environmental Compliance Approval databases identified an approved application for air project.
21 Clark Blvd. (Alectra Utilities Corporation)	Approximately 196 m east of the Site	SPL	May 2017	A spill of 400 L of transformer oil on the road and catch basin due to collision from dump truck.

List of Databases;

CA – Certificates of Approval

EASR – Environmental Activity and Sector Registry

EBR – Environmental Registry

ECA – Environmental Compliance Approval

EXP – List of Expired Fuels Safety Facilities

FST – Fuel Storage Tank

FSTH - Fuel Storage Tank – Historic

GEN - Ontario Regulation 347 Waste Generators Summary

HINC – TSSA Historic Incidents
INC – Fuel Oil Spills and Leaks
NPRI – National Pollutant Release Inventory
PES – Pesticide Register
PRT - Private and Retail Fuel Storage Tanks
SCT - Scott's Manufacturing Directory
SPL - Ontario Spills

Information from the remaining records did not identify any activities or occurrences that were likely to contribute to soil and/or groundwater impacts at the site, due to their indicated distance from the site or the nature of the record.

Other Properties/Records:

The Water Well Information System (WWIS) database identified one water wells on the Phase One Property. The well was constructed in 2018 and identified with Well Tag #A244294. No details related to its water use or well depth was provided.

In addition, thirty-eight wells were identified within a 300 m radius of the Site as well as three unplottable wells. These wells were constructed between 1961 and 2017 (status: twenty-four observation wells, eleven monitoring and test holes, one other status and two wells with no information as well as one record of abandoned [other]). Three unplottable records from WWIS were identified with one well for domestic water supply constructed in 2003. The second well, also used for domestic water and constructed in 2003, was identified with the Well Tag #A026827 and the third record identified this well as abandoned. The depths of these wells ranged from 2.7 to 381 m with static water levels ranging from 2.2 to 4.9 m depth.

EcoLog ERIS also listed 37 unplottable records that indicated various commercial operations such as a building/construction/development, engineering and investment businesses. These records were reviewed for any PCAs in the vicinity of the Site. Based on the location description provided, the commercial operations identified appear to be further from the Site and not within the Phase One Study Area. As such, no impacts to soil and/or groundwater quality at the Site are anticipated from the unplottable commercial operations.

3.2.2 MECP Freedom of Information (FOI) Request

Under the FOI Act, a request was submitted to the Ministry of Environment, Conservation and Parks (MECP; previously called Ministry of the Environment [MOE]) in March 2020 to obtain available records for the Site. At the time of completion of this report, a response had not been received from the MECP. Upon receipt, a copy of the response will be included in Appendix E or forwarded to the City.

3.2.3 Local Municipality

As part of the previously Phase One ESA (G2S, 2018), a search was completed of municipal directories for the City Brampton available at the Brampton Public Library and the Toronto Reference Library. Municipal directories are available in approximate 5-year increments between 1964 and 2001. No municipal directories were available between 1967 and 1981. The results are summarized below, and a copy of the directories search provided by the previous Phase One ESA is attached as Appendix F:

Phase One Property:

Year	Listing
1967	The property use for the Phase One Property was not listed.
1981	Haugh's Products Ltd. and Seaway Pools Ltd.
1985	Gayla-Haugh Kites Limited and Haugh's Products Ltd.
1995	Aircity Home Products, Cameron Kennedy & Associates Limited, Dzign Interior Planning & Project, Fantastic Sleep Shop Ltd. (Unit 2), Lawson & Lawson Business Products Inc (Unit 1), Renocan Construction Ltd. and Sheer Graphics Inc.
2001	Bramelea Gynastics Club (Unit 6), Brew-By-U (Unit 4), Car Shop & Do It Yourself Centre (Unit 8), CK & A (Unit 7), Classic Bedding Ltd. (Unit 2), Economic Insurance Glass Replacement (Unit 3), Fantastic Sleep Shop Ltd. (Unit 2), Lawson & Lawson Business Products Inc (Unit 1) and TVs Electronics (unit 5)

Surrounding Properties:

The surrounding properties with the addresses of 19, 28, 32, 35 and 36 Rutherford Road South in Brampton, Ontario (Figure 3) that are immediately adjacent to the Site or suspected to have PCAs were also searched. These properties were also searched to assist in determining the historical land use in the vicinity of the Site. The following information was obtained:

- 19 Rutherford Road South was listed as Canada Ferro Co. Ltd. between 1968 and 1981, Montpro Services in 1985, Brampton Lumber Company Limited in 1995 and Brampton Home Hardware Buildings Centre between 1995 and 2001, but was not listed in 1990.
- 28 Rutherford Road South was listed as Johnny's Welding Ltd. in 1967, Custom Auto Body between 1985 and 1990, Two D's Car Care in 1995 and Custom Auto Collision between 1995 and 2001, but was not listed in 1964 and 1981.
- 35 Rutherford Road South was listed as Spun Concrete Structures Canada Ltd. in 1954 and Pre-Con Inc. between 1981 and 2001, but was not listed in 1967.

Copy of the municipal directories from 32 and 36 Rutherford Road South was not provided in the previous Phase One ESA report, however, based on information in the report, the following was listed in the municipal directories:

- 32 Rutherford Road South was listed as Aggregation Contract Furniture Inc., Alpha Precasts Knecht & Berchtold Inc. between 1981 and 2001.
- 36 Rutherford Road South was listed Peterbilt Premier Inc., McCleave International Trucks between 1967 and 2001.

No issues of significant environmental concern were identified with regards to the surrounding properties within 300 m of the Phase One Property to suggest that the Phase One ESA Study Area should be expanded beyond the 300 m radial distance.

3.2.4 TSSA Records Search

An email request was submitted to the Technical Standards and Safety Authority (TSSA) on March 30, 2020. SNC-Lavalin received a response indicating the following records in identified in their database:

- 19 Rutherford Road South, Suite 3, located adjacent north of the Site, was identified as an expired fuel storage facility for cylinder exchange.
- 35 Rutherford Road South (Hansen Road Entrance), located approximately 131 m south of the Site, was identified as an expired fuel storage private fuel outlet with two records of expired liquid fuel tanks.
- 36 Rutherford Road South, located 114 m east of Site, was identified as an active propane cylinder handling facility with two records of active propane tanks.
- 52 Rutherford Road South, located 133 m, was identified as active fuel storage private fuel outlet with two records of active liquid fuel tanks.

TSSA did not register private fuel storage tanks prior to January 1990. Information provided by the TSSA is provided in Appendix G.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs for the years 1954, 1971, 1982, 1994, 2013 and 2018 for the Site and surrounding areas were reviewed to investigate previous land use and Site development history. The aerial photographs from for the years 1954, 1971 and 1982 were obtained from the previous Phase One ESA report. The significant observations made are summarized below.

Date	Observations
1954 (Figure H.1)	The Site appears to be used for agricultural purposes with no structures visible. Land use in the vicinity of the Site also appears to be vacant and/or used for agricultural purposes. Roads in the vicinity the Site include Kennedy Road South, Queen Street East, and the former Highway 410. Railway tracks have been developed approximately 500 m south of the Site.
1971 (Figure H.2)	The Site and surrounding areas have been generally developed for commercial and/or industrial use. The Site/City's property appears to be developed with a triangular-shaped building covering most of the property. The property adjacent north of the Site (19 Rutherford Road South) has been developed with a building and a parking lot to the west of the building. Adjacent east of the Site is Rutherford Road South with Clark Boulevard extending towards the east. Properties adjacent east of the site including 28, 32 and 36 Rutherford Road South have been developed with small buildings. The property to the south (35 Rutherford Road South) was developed with a medium size building and a parking lot in the north and west portions of the property. Areas to the west of the Site appears to be undeveloped and vacant.
1982 (Figure H.3)	No significant change at the Site/City's property was observed in the 1982 aerial photograph when compared to the one from 1971. With the exception of a possible addition to the building at 36 Rutherford Road South (adjacent east of the Site), no

Date	Observations
	significant change at the properties adjacent north, south and east of the Site was observed. The properties to the west of the Site have been developed for commercial and/or industrial use with buildings and parking lots.
1994 (Figure H.4)	The creek/drainage channel adjacent south of the City's property is clearly visible. With a higher resolution in this aerial photograph, it appears that surrounding properties to the south and west have trucks and storage areas present. A building addition appears to be present to the west of the existing building on the property at 19 Rutherford Road South located adjacent north of the Site. The north and west portions of the property appear to be developed with a parking lot. A building was also observed on the property to the north of 19 Rutherford Road, which was previously vacant on the 1982 aerial photograph. Another building was also constructed to the north of this building. A medium size building observed in the 1982 aerial photograph near the southwest corner of the intersection at Queen Street East and Rutherford Road South appears to be replaced with a parking lot.
2013 (Figure H.5)	The building at the Site appears to be demolished. An open structure consisting of three compartments appears to be located in the south portion of the City's property. The drainage channel to the south of the Site appears to be heavily forested. The northwest portion of 32 Rutherford Road South, located adjacent east of the Site, appears to be occupied by a building. Possible storage sheds or multiple smaller buildings was observed in the northeast portion of the property in the 1994 aerial photograph. A building located on the property located southeast of the site, 52 Rutherford Road South, appears to be demolished and the property is now vacant.
2018 A31404-105 (Figure H.6)	The middle compartment of the open structure on the south portion of the City's property observed in the 2013 aerial photograph appears to be removed. Storage materials can be observed in structures remaining on-site and near the north property boundary. The property at 52 Rutherford Road South, where the property was vacant in the 2013 aerial photograph, is now occupied by a building.

The original aerial photographs cover a large area and provide only large scale (low resolution) information. Detailed interpretation of these photographs is precluded. Observations from the aerial photographs are consistent with other records reviewed. Copies of the aerial photographs for the selected years are provided in Appendix H.

3.3.2 Topography, Hydrology and Geology

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl). The nearest surface water body is an unnamed tributary of the Spring Creek located approximately 35 m south of the site. A figure showing the topography of the Site is provided as Figure I.1 in Appendix I.

Based on the historical monitoring data, the depth to groundwater at the Site ranges from approximately 2.2 m to 3.4 m bgs. The shallow groundwater flow was towards the south towards the unnamed creek to the south of the Site.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor.

Grain size analysis previously preformed during the Phase Two ESA and Supplemental Phase Two ESA investigations (G2S, 2018 and Wood, 2019) indicate native material at the site is classified as medium/fine textured soil.

The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

3.3.3 Fill Materials

As noted during previous subsurface investigations on the Phase One Property, fill materials was noted from surface to a depth of approximately 1.2 m bgs.

3.3.4 Water Bodies and Areas of Natural Significance

The nearest surface water body is an unnamed creek, which is a tributary of the Spring creek, located 35 m south of the Site.

Based on a review of the topography, regional groundwater flow appears to south and towards Lake Ontario.

A search of the Natural Heritage Information Centre (NHIC) online database was conducted for threatened or endangered species on or near the Site. A list of the noted species is presented in the following table. Species for which either the most recent observed date is greater than 30 years ago or the NHIC considers less threatened than “vulnerable” were not considered.

Species Name	Common Name	Description	Provincial Rank (S-Rank)	Date Last Observed
Contopus virens	Eastern Wood-pewee	Bird	S4B	NA
Hylocichla mustelina	Wood Thrush	Bird	S4B	NA
Arigomphus furcifer	Lilypad Clubtail	Insect	S3	NA
Lestes eurinus	Amber-winged Spreadwing	Insect	S3	NA
Gleditsia triacanthos	Honey-locust	Insect	S2	1911-06-17
Crataegus pruinosa var. dissona	Northern Hawthorn	Plant	S3	1982-06-02
Carex torta	Twisted Sedge	Plant	SX	1910-06-03

Key:

SX – Presumed Extirpated

S2 - Imperiled

S3 – Vulnerable

S4B – Apparently Secure

The NHIC database identified seven threatened or endangered species at risk in the vicinity of the Site and surrounding area. The Site and the surrounding properties have been predominately developed with commercial/industrial buildings since at least 1971. The historical building on-Site was visible until the 1994 aerial photograph and the Site had then been used as a storage yard. Therefore, it is not considered to be suitable habitat for these species; however, dense vegetation are present along the banks of in the unnamed creek to the south.

The NHIC database search, review of the Ministry of Natural Resources and Forestry maps of Natural Heritage System and Areas and Areas of Natural and Scientific Interest (ANSI), and review of ANSI map provided by EcoLog did not identify any ANSI, provincially significant wetlands (PSW) or provincial parks within 300 m of the Site; therefore, the Site is not located within an area of natural significance.

The topographic map and the ANSI map from EcoLog that includes the Phase One Study Area are provided in as Figure I.1 in Appendix I.

3.3.5 Water Well Records

The Site and surrounding area are serviced by municipal water supplied by the Region of Peel sourced from Lake Ontario. According to the MECP Source Protection Information Atlas, the nearest wellhead protection zone (i.e. The Credit Valley Source Protection Area) is located approximately 13.5 km north of the Site.

A review of records from the WWIS in the Ecolog ERIS report identified one well constructed in 2018 on the Phase One Property with information of water use or well depth provided. In addition, thirty-eight wells were identified within a 300 m radius of the Site as well as three unplottable wells. These wells were constructed between 1961 and 2017 (status: twenty-four observation wells, eleven monitoring and test holes, one other status and two wells with no information as well as one record of abandoned [other]). Although the Ecolog ERIS report identified two unplottable water wells constructed in 2003 for domestic water use, it is unlikely that these wells are used for drinking purposes as the Site and surrounding properties were fully developed for commercial or industrial uses prior to 2003 and no known residential or agricultural properties are located in the study area.

The approximate location of the identified wells within the 300 m radius is provided in the Ecolog ERIS report in Appendix D.

4 Interview

An interview with the City's personnel (Mr. Ed Hunwicks) associated with the Phase One Property was completed by SNC-Lavalin through a questionnaire submitted via email to the City which was forwarded to Mr. Hunwicks. A copy of the questionnaire dated April 30, 2020 is provided in Appendix J. Additional information was provided by the City's Project Coordinator (Ms. Reshma Fazlullah) by email dated April 30, 2020 related to the recent history of the Phase One Property. The following information was obtained:

- Ms. Fazlullah noted the previous building on-site was demolished approximately 10 years ago. Mr. Hunwicks was not aware of any historical buildings on-site or any environmental investigations completed at the Site.
- According to Ms. Fazlullah, the City granted access circa 2012 to use the Site for storage purposes for wood chips and logs. Mr. Hunwicks noted that the Site has been used as a holding area for wood chips and logs from the City's Forestry department. He noted that the wood logs have been removed from their location. Both Ms. Fazlullah and Mr. Hunwicks are not aware of any other materials stored at the Site when it was used as a storage yard.
- Mr. Hunwicks reported that he is not aware of any potable water well at the Site or any imported fill brought to the Site for grading purposes.
- Mr. Hunwicks was is not aware of any above ground or underground storage tanks (AST/UST) or any spills or leaks at the Site or at adjacent properties.

No other information suggesting significant potential impacts to the environmental condition of the Site was revealed at the time of the interview.

5 Site Reconnaissance

5.1 General Requirements

SNC-Lavalin personnel, Ms. Wing-Shun Wu, (Environmental Scientist) conducted a Site inspection on January 28, 2020. The weather conditions noted at the time of inspection was 0 degrees Celsius and overcast. The approximate length of time of the inspection was two hours. The purpose of the Site inspection was to assess Site conditions and corroborate the results of the records review in order to identify APECs.

The Site layout at the time of the inspections is presented in Figure 2. Photographs taken during the inspection are included in Appendix K.

5.2 Specific Observations at Phase One Property

5.2.1 Above Ground Structures

At the time of the inspection on January 28, 2020, the Site was vacant and consisted of a paved area in the northeast portion of the Site with a gate to access the Site. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. A wooden shed and shingles, identified in previous investigations, was observed in the central portion adjacent to the north boundary of the Site. Three monitoring wells with monument casings were identified. Based on site plans from previous investigations, these monitoring wells were identified as MW-101, MW-103 and BH19-2. Monitoring well MW-102 was not located. No other above ground structures were noted.

5.2.2 Below Ground Structures

No below ground structures were observed during the site inspection.

5.2.3 Storage Tanks

No storage tanks were observed during the site inspection.

5.2.4 Potable and Non-Potable Water Usage

No potable water wells were noted on the Phase One Property during the site visit. The WWIS database identified two unplottable water wells (status: domestic water supply) constructed in 2003 to approximate depths of 54.2 to 55.4 m.

5.2.5 Site Features

Utilities

A catch basin was noted in the northwest portion of the site. No other utilities were noted during the site inspection.

Ground Cover

The northeast portion of the site is paved between the driveway access from Rutherford Road to the front gate. Ground cover within the fenced area of the Site could not be fully inspected during the site visit as portions of Site was covered with snow and ice. In areas where the ground cover could be inspected, it appeared the fenced portion of the Site was primarily covered with gravel with paved areas in the east portion. Small vegetated areas of grass and shrubs was observed in the west portion of the site, around the shed and in the vicinity of the north Site boundary. The south-central portion of the Site was covered with a layer of mulch.

Railway Lines

There are no railway lines at or adjacent to the Site. Railway lines are present more than 300 m south of the Site.

Ground Staining

No evidence of ground staining was noted during the site inspection.

Stressed Vegetation

No evidence of stressed vegetation was noted during the site inspection.

Evidence of Fill Materials

The site is partially paved with a driveway access from Rutherford Road South and northeast portion of the fenced area of the Site paved, the remainder of the Site appeared to be covered with dirt or gravel. As noted, a layer of mulch was observed in the south-central portion of the Site. No other evidence of fill material was observed during the site inspection.

Potentially Contaminating Activities

Historical on-Site PCAs are discussed in Section 6. PCAs observed during the 2019 site inspection included:

› Historical use of the Site.

Unidentified Substances

No unidentified substances were observed at the time of the site inspection.

Topography and Drainage

The topography at the Site was observed to be generally flat with slight slope downward to the south. Runoff from the Site is directed to towards the unnamed creek to 35 m south of the Site.

Site Access

The Site is located on Rutherford Road South and accessed from the driveway at the northeast corner of the Site.

Waste Materials

Non-hazardous waste material consisting of plastic buckets, two empty water totes, a pile of wood logs, one wooden pallet, and a concrete ring were noted to be located at various locations along the north boundary of the Site. In addition, two gas cylinder tanks, two steel 205 L drums and a plastic 205 L drum were observed in the vicinity of monitoring well BH19-2 and MW102. A monitoring well casing was noted in the steel drum located near the monitoring well MW102. The contents in the remaining drums and cylinder tanks are unknown.

Pits or Lagoons

No pits or lagoons were identified at the Site during the site inspection.

Standing Water

No standing water was observed at the time of the site inspection.

Bedrock Outcrops

Bedrock outcrops were not observed during the site inspection.

Spills

No spills were observed during the Site inspection.

Air Emissions

No air emissions were noted at the time of the site inspection.

Odour

No odours were noted on the Site at the time of the site inspection.

5.2.6 Enhanced Investigation at the Property

At the time of the inspection, the Site was vacant and storage yard operations appeared to have ceased. The Site may be considered an 'enhanced investigation property' as defined by O. Reg. 153/04, as amended, however, no additional records were obtained for review since the historical building has been demolished.

5.3 Surrounding Properties

Adjacent and surrounding properties were observed from the boundaries of the Phase One property and from publicly accessible areas. Property uses on adjacent properties are described in Section 3.1.1.

The following observations were made regarding adjacent properties:

› **North:** 19 Rutherford Road including commercial/industrial uses with trucking, auto parts and signage businesses (Super Fast Trucklines, NAPA Auto Parts and Signage & Lighting Systems) and a community training centre.

- **South:** The remainder of the property having municipal address 25 Rutherford Road South. The property was noted to be vacant. The three concrete storage areas noted during the previous Phase One Investigation (G2S, 2018a) were no longer present on the adjacent south property. Non-hazardous wastes including an empty steel drum, wooden debris and a tire was noted. The unnamed tributary of Spring Creek was noted beyond the fence to the south. Further to the south at 35 Rutherford Road South is an industrial building for manufacturing of construction material (Pre-Con). Building materials that appeared to be steel rebars were noted.
- **East:** Rutherford Road South with Clark Boulevard ad commercial/industrial businesses beyond including auto sales and repairs, carwash and heavy machinery equipment rentals:
    - 28 Rutherford Road South: Custom Auto Collection;
    - 32 Rutherford Road South: Rush Lube & Truck Wash, 1 Stop Auto Repair Centre and Auto Crew Sales, and;
    - 36 Rutherford Road South: Sunbelt Rentals.
- **West:** The remainder of the property having municipal address 25 Rutherford Road South. The property was noted to be vacant. Non-hazardous wastes including wooden debris, paint can, containers and brushes and a ceramic sink was noted. The unnamed tributary of Spring Creek was noted beyond the fence to the west.

Potential impacts to soil and/or groundwater quality at the Site are anticipated resulting from the current commercial operations located adjacent to the north of the Site, and the commercial business to the east, and presence of the AST located on the property to the south.

5.4 Written Description of Investigation

The Site reconnaissance was conducted by visiting and observing the Phase One Property and publicly accessible portions of the Phase One Study Area. Preliminary information obtained from the records review was considered prior to conducting the inspection.

Based on the specific observations for the Phase One Property and historical records review, on-site Areas of Potential Environmental Concern APECs associated with current and historical PCAs, and areas of interest (AOI) are presented below. AOI are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the MECP definition of a PCA.

- Known remaining soil and groundwater impacts present on the Site associated with historical uses of the property including manufacturing of cardboard containers and mattresses, bulk storages of paint and use as a storage yard.
- Potential impacts from the use of road salt on-Site for de-icing purposes; and,

Based on the specific observations for the Phase One Study Area, the following off-site PCAs and AOI were identified:

- Known remaining soil and groundwater impacts present on the City's Property (adjacent east and west of the Site) associated with historical uses of the property including manufacturing of cardboard containers and mattresses, bulk storages of paint and use as a storage yard.

- Current and historical industrial businesses located to the north including auto parts manufacturing, truck repairs, bulk storage of paints and pesticide vendor;
- A spill of 1,000 L of diesel in the catch basin in the adjacent north property;
- Current and historical commercial businesses located to the east including welding and fabricating, concrete manufacturer, heavy equipment rental supplier,

Details of these observed areas of PCAs and AOIs, issues identified from records review and resulting APECs are presented in Section 6.

6 Review and Evaluation of Information

6.1 Review and Evaluations

6.1.1 Current and Past Uses

The following provides a general overview of the history of the Site and surrounding properties based on the information reviewed as part of this Phase One ESA. The current Site layout is presented in Figure 2.

A summary of current and past uses of the Phase One Property is provided below:

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1961	Unknown	Presumed residential/ Agricultural or undeveloped	Agricultural or other use	A 1954 aerial photograph shows vacant and/or agricultural fields with no structures visible.
1961 to 1969	The Corporation of the Town of Brampton <u>Leases:</u> 1963 – Canada-Ferro Company Limited	The chain of title identified the Site was leased by Canada-Ferro Company Limited in 1963, for possible automobile parts manufacturing.	Industrial use	The Site has been owned by The Corporation of the Town of Brampton since at least 1961. First developed use of the Site was determined to be between 1954 and 1963. The 1971 FIP indicates the Canada-Ferro Company Limited company was located an automobile parts manufacturing located adjacent north at 19 Rutherford Road South (transferred as easement in 1969).
1969 to circa 1970	The Corporation of the Town of Brampton <u>Leases:</u> 1969 – Kirk Containers Limited	Transfer portion as easement. Site is utilized for manufacturing of cardboard container and mattresses, car or autobody shop, glass replacement, production of		The review of the chain of title identified the Site was leased to Kirk Containers Limited in 1969. The 1971 FIP identified Kirk Container Limited as a cardboard container manufacturer.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
		beverages, paint storage and commercial businesses		
Circa 1970 to 1984	The Corporation of the Town of Brampton Leases: 1972 – Brock Containers Limited 1978 – Imperial General Properties Limited 1980 - Haughs Products Limited	Transfer portion as easement. Site is utilized for manufacturing of cardboard container and mattresses, car or autobody shop, glass replacement, production of beverages, paint storage and commercial businesses	Industrial use	The review of aerial photographs between 1971 and 1994 identified a commercial/industrial building at the Site. The chain of title identified the Site was leased to Brock Containers Limited in 1972. The chain of title identified the Site was leased to Imperial General Properties in 1978. The chain of title identified Haughs Products Limited in 1980. The municipal directories listed Haughs Products between 1981 and 1985.
1984 to circa 1991	The Corporation of the City of Brampton Leases: 1980 - Haughs Products Limited	Land ownership transfer from The Corporation of the Town of Brampton to The Corporation of the City of Brampton. Manufacturing of cardboard container and mattresses, car or autobody shop, glass replacement, production of beverages, paint storage and	Industrial use	The chain of title identified Haughs Products Limited in 1980. The municipal directories listed Haughs Products between 1981 and 1985. The municipal directories listed Gayla-Haugh Kites Limited in 1985. The review of EcoLog ERIS report identified establishment of two mattresses manufacturers at the Site in 1988, Fantastic Sleep Shop Ltd. and Classic Bedding Ltd.,

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
		commercial businesses.		both of which were listed in the municipal directories in 1995 and 2001, respectively.
Circa 1991 to 2009	The Corporation of the City of Brampton	Storage yard and paint storage.	Industrial use	The review of EcoLog ERIS identified business established in 1993 for productions of beverages (BREW-BY-U). The municipal directories listed Aircity Home Products, Cameron Kennedy & Associates Limited, Dzign Interior Planning & Project, Lawson & Lawson Business Products Inc (Unit 1), Renocan Construction Ltd. and Sheer Graphics Inc. in 1995, and Bramelea Gynastics Club (Unit 6), Car Shop & Do It Yourself Centre (Unit 8), CK & A (Unit 7), Economic Insurance Glass Replacement (Unit 3), Lawson & Lawson Business Products Inc (Unit 1) and TVs Electronics (unit 5) in 2001. The review of EcoLog ERIS report identified Kustom Airworks as a registered waste generator for aromatic solvents in 2006. The review of Ecolog ERIS report listed the City of Brampton as registered waste generator for paint/pigment/coating residues in 2009.
2009 to 2020	The Corporation of the City of Brampton	Storage yard	Industrial use	The interview with the City's personnel indicated that the historical building was demolished approximately 10 years ago (approximately 2009)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
				and the City was granted access circa 2012 to use the Site as a storage yard. A review of the 2013 aerial photograph indicated that the historical building on-Site had been demolished and was replaced with an open structure to the south of the Site that appeared to be concrete storage areas identified during previous investigations.
2020 to Present	The Corporation of the City of Brampton	Vacant	Industrial use	In 2020, a site reconnaissance indicated that the Site was vacant and appeared that its operations as a storage yard have ceased.

Notes:
1 - For each owner, specify one of the following types of property use (as defined in O. Reg. 153/04) that applies:

Agriculture or other use
Commercial Use
Community use
Industrial use
Institutional use
Parkland use
Residential use

6.1.2 Potential Contaminating Activity

6.1.2.1 Potentially Contaminating Activities On-Site

Based on the records review, observations made during the inspection and information gathered through interviews, PCAs and AOIs were identified at the Site. This information is summarized below and in Figure 4.

PCA No.	PCA and AOI	Location of APEC on Phase One Property	Rationale/Evaluation
10	Commercial Autobody Shops	General Site area	Potential impacts due to historical activities associated with Car Shop & Do It Yourself Centre.

30	Importation of Fill Material of Unknown Quality	General Site area	Fill was identified during previous subsurface investigations completed at the Site.
39	Paints Manufacturing, Processing and Bulk Storage	General Site area	Potential impacts due to historical activities associated with paint storage by Kustom Airworks and the City of Brampton's use of the Site as a storage yard.
45	Pulp, Paper and Paperboard Manufacturing and Processing	General Site area	Potential impacts due to historical activities associated with cardboard container manufacturing by Kirk Containers Ltd and Brock Containers Limited.
48	Salt Manufacturing, Processing and Bulk Storage	General Site area	Potential impacts from the historical use of road salt, however, per Section 49.1 of O. Reg. 153/04 (as amended under O. Reg. 407/19) exceedances of Site condition standards arising solely due to the application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both are not considered exceedances for the purposes of filing an RSC; consequently, this is not considered to give rise to an APEC at the Site.
57	Vehicles and Associated Parts Manufacturing	General Site area	Potential impacts due to historical activities associated with automobile parts manufacturing by Canada-Ferro Company Limited.

6.1.2.2 Potentially Contaminating Activities Off-Site

Based on records review, observations made during the inspection and information gathered through interviews, PCAs and AOIs were identified on properties within the Phase One study area that may be contributing to on-site conditions. This information is summarized below and in Figure 4.

Address	PCA No.	PCA and AOI	Location of APEC on Phase One Property	Contributes to an APEC (YES/NO)	Rationale/Evaluation
25 Rutherford Road South (Adjacent south and west)	10	Commercial Autobody Shops	Southwestern and southern area of Site	YES	Potential impacts due to historical activities associated with Car Shop & Do It Yourself Centre.
	39	Paints Manufacturing, Processing and Bulk Storage			Potential impacts due to historical activities associated with paint storage by Kustom Airworks and the City of Brampton's use of the Site as

Address	PCA No.	PCA and AOI	Location of APEC on Phase One Property	Contributes to an APEC (YES/NO)	Rationale/Evaluation
					a storage yard.
	45	Pulp, Paper and Paperboard Manufacturing and Processing			Potential impacts due to historical activities associated with cardboard container manufacturing by Kirk Containers Ltd and Brock Containers Limited.
	48	Salt Manufacturing, Processing and Bulk Storage			Potential impacts from the historical use of road salt, however, per Section 49.1 of O. Reg. 153/04 (as amended under O. Reg. 407/19) exceedances of Site condition standards arising solely due to the application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both are not considered exceedances for the purposes of filing an RSC; consequently, this is not considered to give rise to an APEC at the Site.
	57	Vehicles and Associated Parts Manufacturing			Potential impacts due to historical activities associated with automobile parts manufacturing by Canada-Ferro Company Limited.
19 Rutherford Road South (Adjacent north)	19	Electronic and Computer Equipment Manufacturing	North boundary of Site	YES	Signage & Lighting System Inc. exists at this location and is associated with activities related to manufacturing of electronic signs.

Address	PCA No.	PCA and AOI	Location of APEC on Phase One Property	Contributes to an APEC (YES/NO)	Rationale/Evaluation
	27	Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles (Truck Repair)			Rapri Truck Repair Centre and Super Fast Trucklines exist at this location and are associated with truck repairs and storage of trucks.
	39	Paints Manufacturing, Processing and Bulk Storage			C-Max Paint and Signage & Lighting System Inc. exist at this location and are associated with activities related to bulk paint storage.
	48	Salt Manufacturing, Processing and Bulk Storage			Potential impacts from the historical use of road salt, however, per Section 49.1 of O. Reg. 153/04 (as amended under O. Reg. 407/19) exceedances of Site condition standards arising solely due to the application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both are not considered exceedances for the purposes of filing an RSC; consequently, this is not considered to give rise to an APEC at the Site.
	57	Vehicles and Associated Parts Manufacturing			Canada Ferro Co Ltd. existed at this location was associated with automobile parts manufacturing.
	NA	Documented spill of diesel to a catch basin			A spill of 1,000 L of diesel to a catch basin on this property was documented. Contamination to the surface water was confirmed. Due to the proximity of this spill to the site, it is considered to have a potential impact the Site.

Address	PCA No.	PCA and AOI	Location of APEC on Phase One Property	Contributes to an APEC (YES/NO)	Rationale/Evaluation
	40	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications			Brampton Lumber Home Hardware existed at this location, however, application and bulk storage of pesticides are not anticipated at hardware stores. As such, it is not considered likely to give rise to an APEC.
28 Rutherford Road S (Adjacent east, approximately 46 m northeast of the Site)	10	Commercial Autobody Shops	None	NO	Custom Autobody Collection and Custom Autobody Repair and Refinishing Inc. exists at this location and are associated with activities related to automotive refinishing; however, it is not considered likely to give rise to an APEC given the intervening distance and the similar PCA to the Site.
32 Rutherford Road S (Approximately 97 m northeast of the Site)	10	Commercial Autobody Shops	None	NO	Carwash and autobody shops including Rush Lube & Truck Wash, 1 Stop Auto Repair Centre and Auto Crew Sales were identified at this location during site reconnaissance; however, it is not considered likely to give rise to an APEC given the intervening distance.

Address	PCA No.	PCA and AOI	Location of APEC on Phase One Property	Contributes to an APEC (YES/NO)	Rationale/Evaluation
32 Rutherford Road S (Adjacent east, approximately 61 m east of the Site)	12	Concrete, Cement and Lime Manufacturing	None	NO	Knecht & Berchtold Inc. and Aggregation Contract Furniture existed at this location and were identified for manufacturing of concrete products; however, it is not considered likely to give rise to an APEC given the intervening distance.

Other potential sources of contaminants were identified on properties located more than 100 m from the subject Site including fuel storage tanks, spills of suspended solids, coolant and diesel, wood preservation, concrete product manufacturing, optical media manufacturing, registered waste generators and etc. The potential contaminants of concern associated with these sites are similar to those for the Site. Based on the separation between these properties and the Site, these properties are not considered to be APECs for the Site.

6.1.3 Areas of Potential Environmental Concern

Based on records review, observations made during the inspection and information gathered from other sources, four APECs were identified for the Phase One Property. These APECs are presented on Figure 5 and are summarized below:

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
1	General Site area	PCA Item 10 - Commercial Autobody Shops	On-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Soil and Ground water

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
2	General Site area	PCA Item 30 - Importation of Fill Material of Unknown Quality		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
3	General Site area	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
4	General Site area	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	
5	General Site area	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
6	General Site area	PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
7	Southwestern and southern area of Site	PCA Item 10 - Commercial Autobody Shops	Off-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 39 - Paints Manufacturing,		BTEX, PHC F1-F4, VOCs, PAHs and	

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
		Processing and Bulk Storage		Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
8	North boundary of Site	PCA Item 19 - Electronic and Computer Equipment Manufacturing		Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	
		PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including	

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
				As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item NA - Documented spill of diesel to a catch basin		BTEX, PHC F1-F4, PAHs	

Notes:

1 - Areas of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and

(b) identification of potentially contaminating activity.

2 - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the
Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups:

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

6.1.4 Phase One Conceptual Site Model (CSM)

A pictorial representation of the CSM is shown in Figures 4 and 5 and presents the following:

- Existing buildings, structures, roadways and their names within the Phase One Study Area;
- Water bodies and ANSIs, if any, within the Phase One Study Area (Section 3.3.4);
- Water wells, if any, located on the Phase One property (Section 3.3.5);
- Land uses adjacent to the Phase One property;
- Areas of PCAs and APECs, if any, within the Phase One Study Area (Section 6.1.2 and Section 6.1.3, respectively).

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl). The nearest surface water body is the unnamed tributary of the Spring Creek located approximately 35 m south of the site.

Based on the historical monitoring data, the depth to groundwater at the Site ranges from approximately 2.2 m to 3.4 m bgs. The shallow groundwater flow was towards the south towards the unnamed creek to the south of the Site.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor. The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

The previous environmental investigations completed on-Site indicated that the shallow overburden generally comprises fill material to a depth of approximately 1.2 m underlain by clayey silt to depths ranging between 2.4 and 3.6 m bgs underlain by bedrock to the maximum depth of investigation of 5.9 m bgs. Grain size analysis from the native material indicated predominant soil type was medium-fine textured.

Review of the previous environmental reports identified the following:

- Metals impacts were identified in soil from borehole BH102 located in the south portion of the Site at a depth of 0 to 1.2 m bgs.
- Elevated EC values were identified in soil from test pit TP19-8 located in the north portion of the Site at a depth from 0 to 0.7 m bgs.
- Sodium and chloride impacts were identified in groundwater from monitoring well MW101 located in the northwest portion of the Site.
- Antimony impacts were impacts were identified in groundwater from monitoring well BH19-2 located in the adjacent to the north property boundary.

Based on the various historical uses of the Site from cardboard container and mattresses manufacturers, vehicle parts manufacturing, autobody and glass replacement shops and bulk storage of paints and recent use as a storage yard, and off-site activities that may impact the Site associated with truck repairs and

electronic sign manufacturing; potential contaminants of concern (PCOC) were identified as BTEX, PHC F1 to F4, VOCs, PAHs and metals/inorganics, in soil and groundwater.

6.2 Uncertainties

No uncertainties were noted.

7 Conclusions

7.1 Summary and Conclusions

Based on the above information, the following conclusions are provided:

- First developed use of the Phase One Property was determined to be between 1954 and 1963.
- Review of the chain of title indicated the Phase One Property has been owned by the Corporation of the Town of Brampton since at least 1961.
- Current and historical commercial/industrial operations were recorded at the Site and in the vicinity of the Site. Based on the intervening distance to the Site and/or expected direction of groundwater flow to the south, potential impacts to soil and/or groundwater quality at the Site are anticipated resulting from the current and historical commercial/industrial operations on these properties.
- The interview indicated the previous building on-site was demolished approximately 10 years ago. The City granted access circa 2012 to use the Site for storage purposes for wood chips and logs.
- The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m amsl. The nearest surface water body is an unnamed tributary of the Spring Creek located approximately 35 m south of the Site. Based on historical monitoring data, shallow groundwater flow was towards the south towards the unnamed creek to the south of the Site.
- The Site is vacant and consists of a paved area in the northeast portion of the Site with a gate to access the Site. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. A wooden shed and shingles, identified in previous investigations, was observed in the central portion adjacent to the north boundary of the Site.
- Based on the records review, interviews and observations made during the Site visits, PCAs and AOIs were identified on-Site, and include; potential impacts to soil and groundwater by historical activities associated with commercial autobody shops, paints manufacturing, processing and bulk storage, salt application and storage pulp, paper and paperboard, manufacturing and processing and vehicles and associated parts manufacturing.
- PCAs and AOIs identified off-Site that may potentially impact soil and groundwater quality on-Site include commercial/industrial business located adjacent to west and south on the remainder of the City's Property, commercial/industrial business to the north including electronic and computer equipment manufacturing, truck repair, bulk paint storage, salt application and storage, and automobile parts manufacturing.
- Based on the on-Site and off-Site PCAs and AOIs, APECs identified on the Phase One Property include the general Site area, southwestern and southern area of Site and north boundary of Site.

7.1.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the review and evaluation of information discussed herein, a Phase Two ESA would be required before a RSC could be submitted for the Phase One Property.

7.1.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

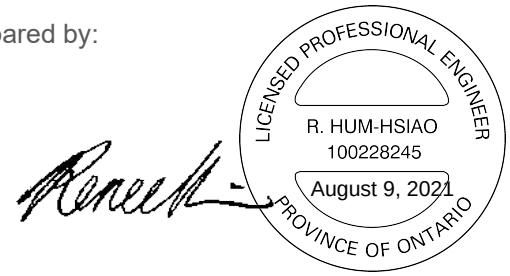
An RSC will not be submitted based on Phase One ESA alone. Based on the review and evaluation of information discussed herein, a Phase Two ESA would be required before a RSC could be submitted for the Phase One Property.

7.2 QP Statement

The Phase One ESA was supervised by undersigned qualified person(s) and all findings and conclusions of the Phase One ESA are included in the report.

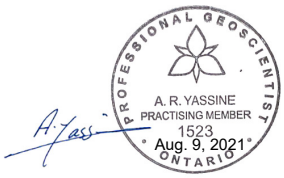
8 Closure

Prepared by:



Renee Hum-Hsiao, P.Eng.
Environmental Engineer

Reviewed by:



Abed Yassine, P.Geo.
Senior Geoscientist

Environment & Geoscience
Engineering, Design and Project Management

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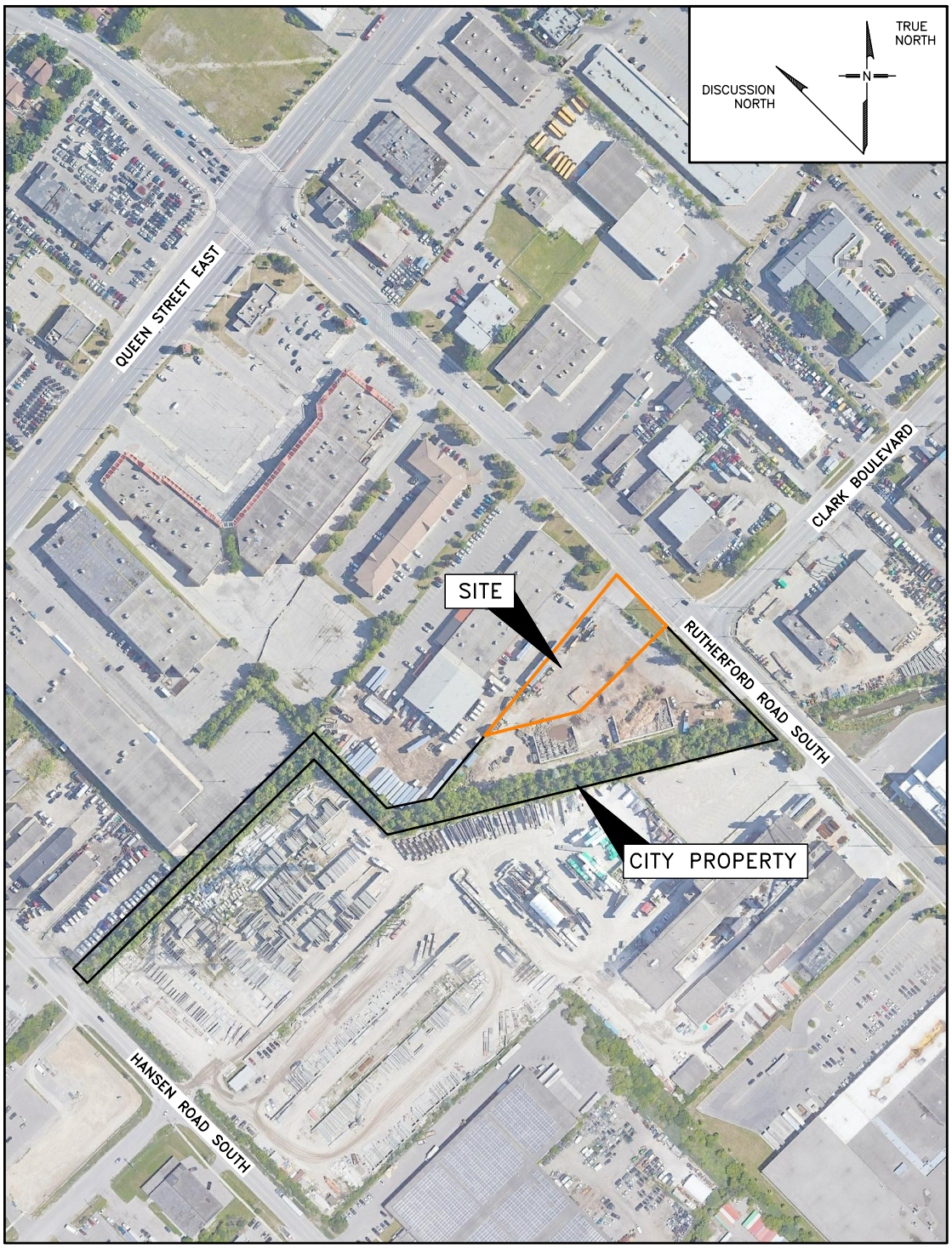
Qualifications of The Assessors

Report Author – Ms. Renee Hum-Hsiao, P.Eng. is a registered Professional Engineer with over 5 years of experience in environmental consulting, including Phase I and II Environmental Site Assessments (ESAs), contaminated site remediation and hydrogeological assessment. Renee has experience in project management, project coordination, planning, field work, data analysis, and report writing. Renee has supervised groundwater, soil, surface water, and private well water investigations for sites all across Ontario. She has successfully completed Phase I and II ESAs and has contributed to the assessment process from inception to completion.

Senior Reviewer – Mr. Abed Yassine, P.Geo. Mr. Yassine has over 28 years of experience in the assessment and remediation of contaminated sites. He has completed Phase I and II environmental site assessments (ESAs), investigations and remediation at sites impacted by petroleum hydrocarbons, chlorinated solvents, polychlorinated biphenyls (PCBs), heavy metals and inorganic contaminants. He has also prepared evaluation reports for buildings and structures that contain contaminants and require specific removal and disposal programs prior to general demolition. Mr. Yassine has supervised field demolition programs that require special handling of asbestos and PCBs, completed storm water management design, evaluated subsoil and groundwater conditions for design of private waste systems, designed sewage systems including treatment and distribution systems and lot grading.

Figures



SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, JUNE 9, 2018

SCALE 1:4,000

0 80 160m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: SITE LOCATION PLAN	
Project No: 671835	Filename: 011F01_671835	Date: AUGUST 2021	Dwg No: FIGURE 1
Drawn: AG	Verified: RHH	Project Manager: AY	

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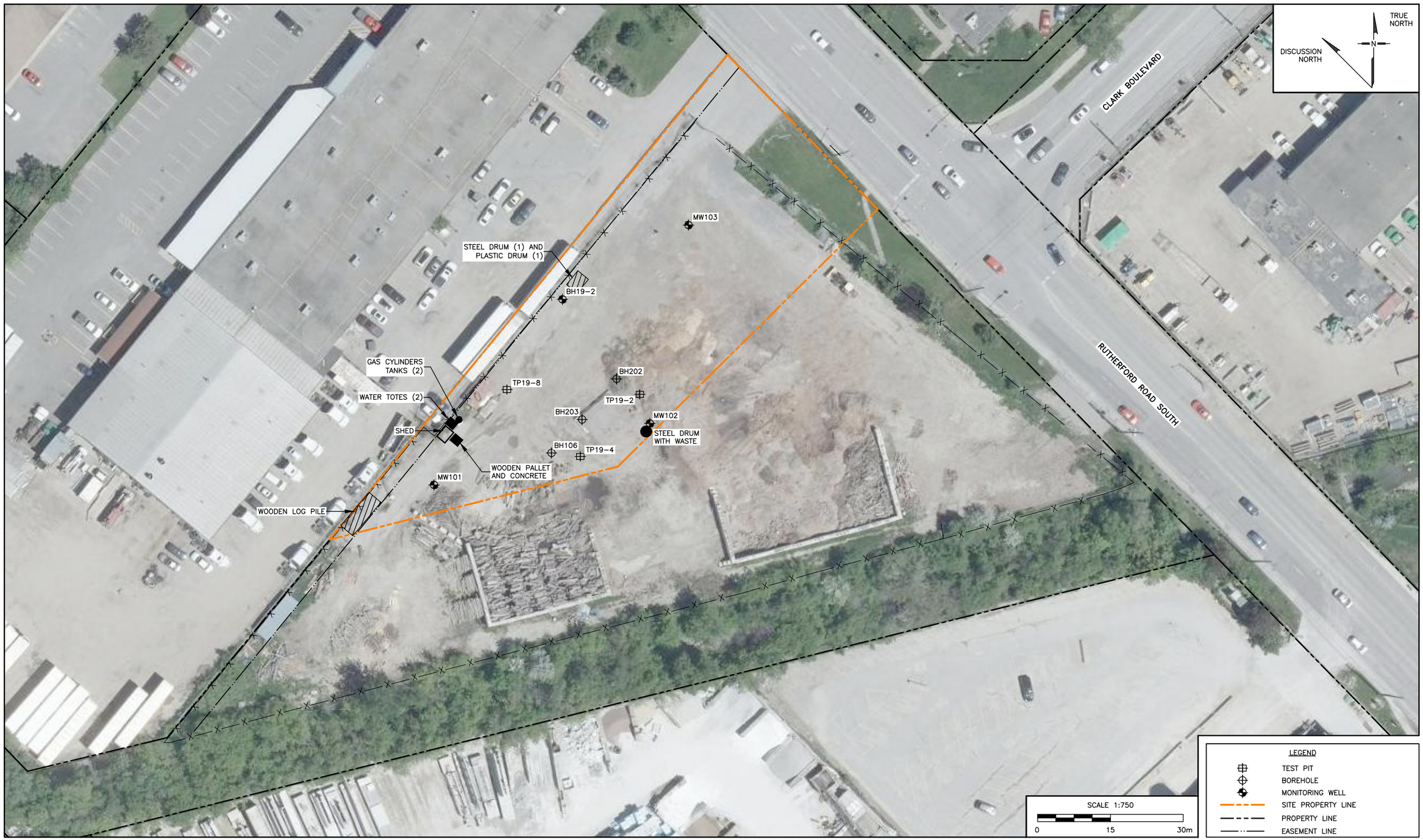

NOTE(S):
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2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

SOURCE(S):
1. CITY OF BRAMPTON, ONLINE MAP, JANUARY 2020
2. WOOD ENVIRONMENT AND INFRASTRUCTURE SOLUTIONS, PHASE TWO ENVIRONMENTAL SITE ASSESSMENT, BOREHOLE/MONITORING WELL AND TEST PIT LOCATION PLAN, FIGURE 5, PROJECT No. TOR190020.3000, OCTOBER 2019

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: CURRENT SITE LAYOUT	
Project No: 671835	Filename: 003F02_671835	Date: APRIL 2020	Dwg No: FIGURE 2
Drawn: AG	Verified: WW	Project Manager: AY	

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase I)\003F02_671835.dwg

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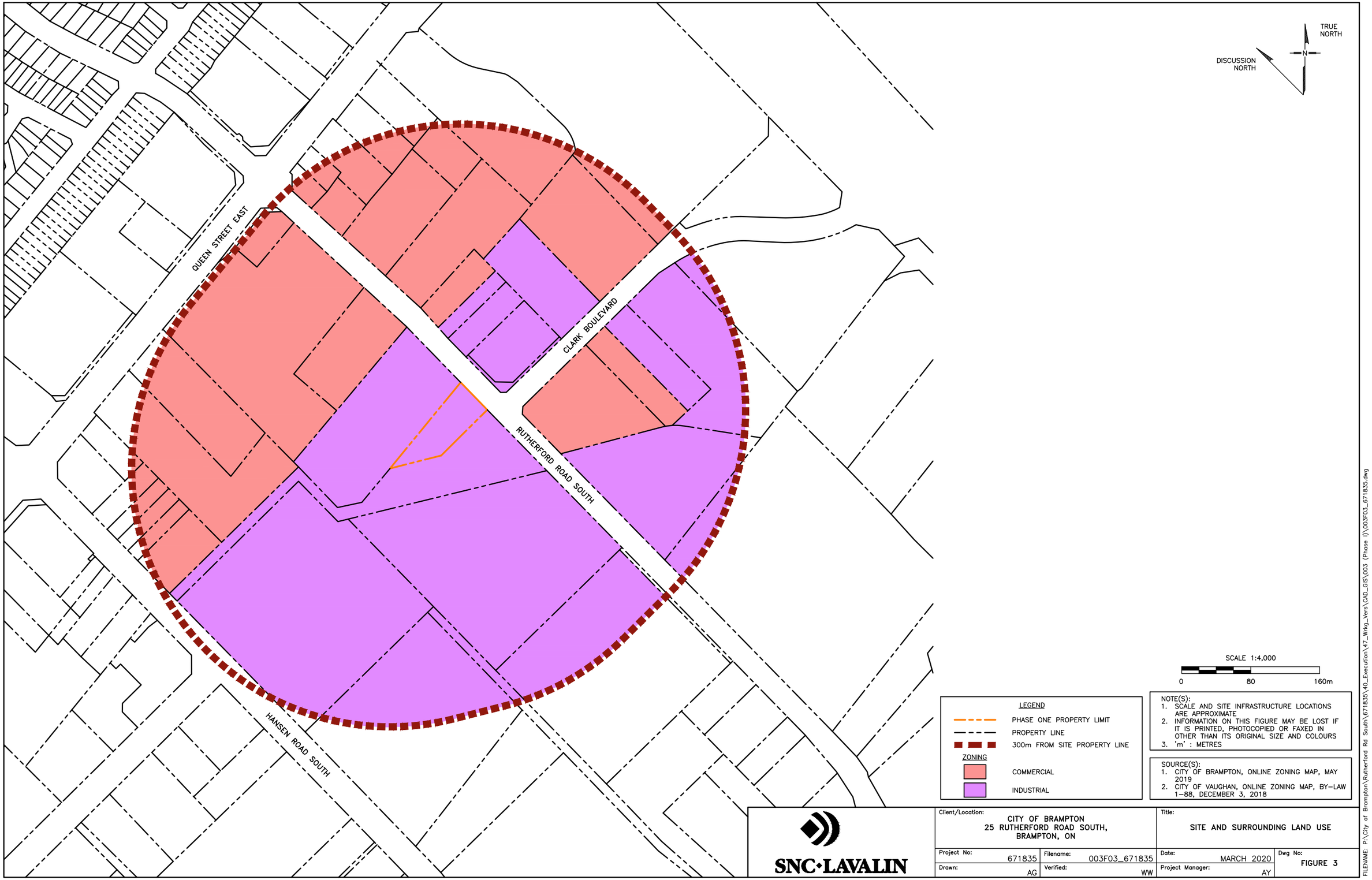

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: SITE AND SURROUNDING LAND USE	
Project No: 671835	Filename: 003F03_671835	Date: MARCH 2020	Dwg No: FIGURE 3
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 11x17

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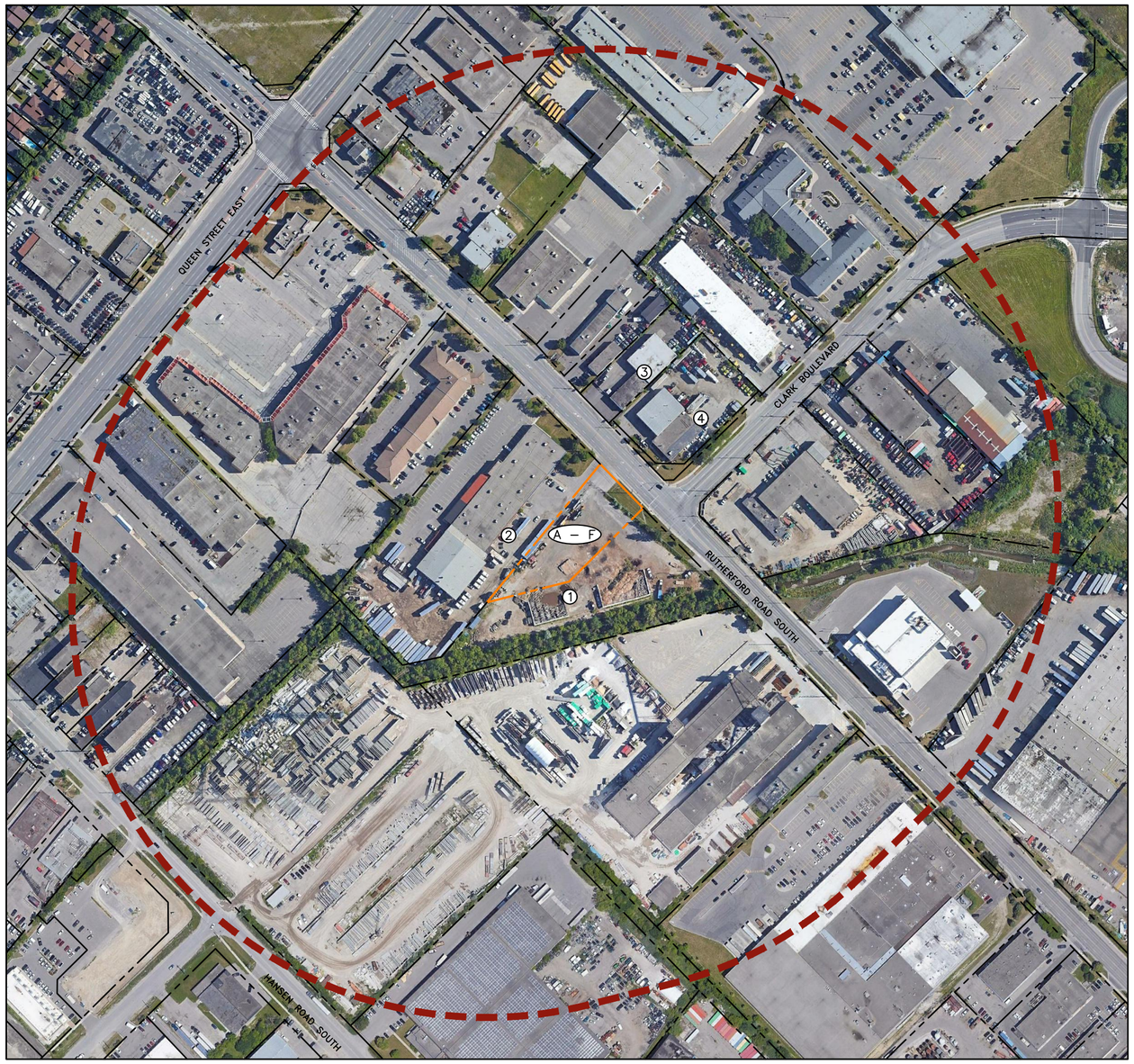

TRUE NORTH

DISCUSSION NORTH

ON PHASE ONE STUDY PROPERTY ARE THERE?		
EXISTING STRUCTURES/BUILDINGS	YES	WOODEN SHED
WATER WELLS	NO	
IN PHASE ONE STUDY AREA ARE THERE?		
ROADS	YES	SEE FIGURE
WATER BODIES	YES	UNNAMED TRIBUARY OF THE SPRING CREEK – SOUTH OF THE SITE
AREA OF NATURAL SIGNIFICANCE	NO	

ON–SITE LOCATION	PCA No.	POTENTIAL CONTAMINATION ACTIVITY TYPE	DESCRIPTION
A	10	COMMERCIAL AUTOBODY SHOPS	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CAR SHOP AND DO IT YOURSELF CENTRE.
B	30	IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY	FILL WAS IDENTIFIED DURING PREVIOUS SUBSURFACE INVESTIGATIONS COMPLETED AT THE SITE.
C	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH PAINT STORAGE BY KUSTOM AIRWORKS AND THE CITY OF BRAMPTON'S USE OF THE SITE AS A STORAGE YARD.
D	45	PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CARDBOARD CONTAINER MANUFACTURING BY KIRK CONTAINERS LTD AND BROCK CONTAINERS LIMITED.
E	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
F	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING BY CANADA–FERRO COMPANY LIMITED.
OFF–SITE LOCATION	**PCA No.**	**POTENTIAL CONTAMINATION ACTIVITY TYPE**	**DESCRIPTION**
1	10	COMMERCIAL AUTOBODY SHOPS	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CAR SHOP AND DO IT YOURSELF CENTRE.
	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH PAINT STORAGE BY KUSTOM AIRWORKS AND THE CITY OF BRAMPTON'S USE OF THE SITE AS A STORAGE YARD.
	45	PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CARDBOARD CONTAINER MANUFACTURING BY KIRK CONTAINERS LTD AND BROCK CONTAINERS LIMITED.
	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING BY CANADA–FERRO COMPANY LIMITED.
2	19	ELECTRONIC AND COMPUTER EQUIPMENT MANUFACTURING	SIGNAGE & LIGHTING SYSTEM INC. EXISTS AT THIS LOCATION AND IS ASSOCIATED WITH ACTIVITIES RELATED TO MANUFACTURING OF ELECTRONIC SIGNS.
	27	GARAGES AND MAINTENANCE AND REPAIR OF RAILCARS, MARINE VEHICLES AND AVIATION VEHICLES (TRUCK REPAIR)	RAPRI TRUCK REPAIR CENTRE AND SUPER FAST TRUCKLINES EXIST AT THIS LOCATION AND ARE ASSOCIATED WITH TRUCK REPAIRS AND STORAGE OF TRUCKS.
	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	C–MAX PAINT AND SIGNAGE & LIGHTING SYSTEM INC. EXIST AT THIS LOCATION AND ARE ASSOCIATED WITH ACTIVITIES RELATED TO BULK PAINT STORAGE.
	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	CANADA FERRO CO LTD. EXISTED AT THIS LOCATION WAS ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING.
3	10	COMMERCIAL AUTOBODY SHOPS	COMMERCIAL AUTOBODY SHOP
4	10	COMMERCIAL AUTOBODY SHOPS	COMMERCIAL AUTOBODY SHOP
	12	CONCRETE, CEMENT AND LIME MANUFACTURING	CONCRETE, CEMENT AND LIME MANUFACTURING AND VEHICLES AND ASSOCIATED PARTS MANUFACTURING

LEGEND

Ⓐ① POTENTIAL CONTAMINATING ACTIVITY/ ACTIVITIES OF ENVIRONMENTAL INTEREST ITEM NUMBER AS DEFINED IN TABLE 2 WITHIN PART VI OF SCHEDULE D OF O. REG. 153/04

PHASE ONE PROPERTY LIMIT

PROPERTY LINE

300m FROM SITE PROPERTY LINE

NOTE(S):
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2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, JUNE 9, 2018

SCALE 1:3,000

0 80 120m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

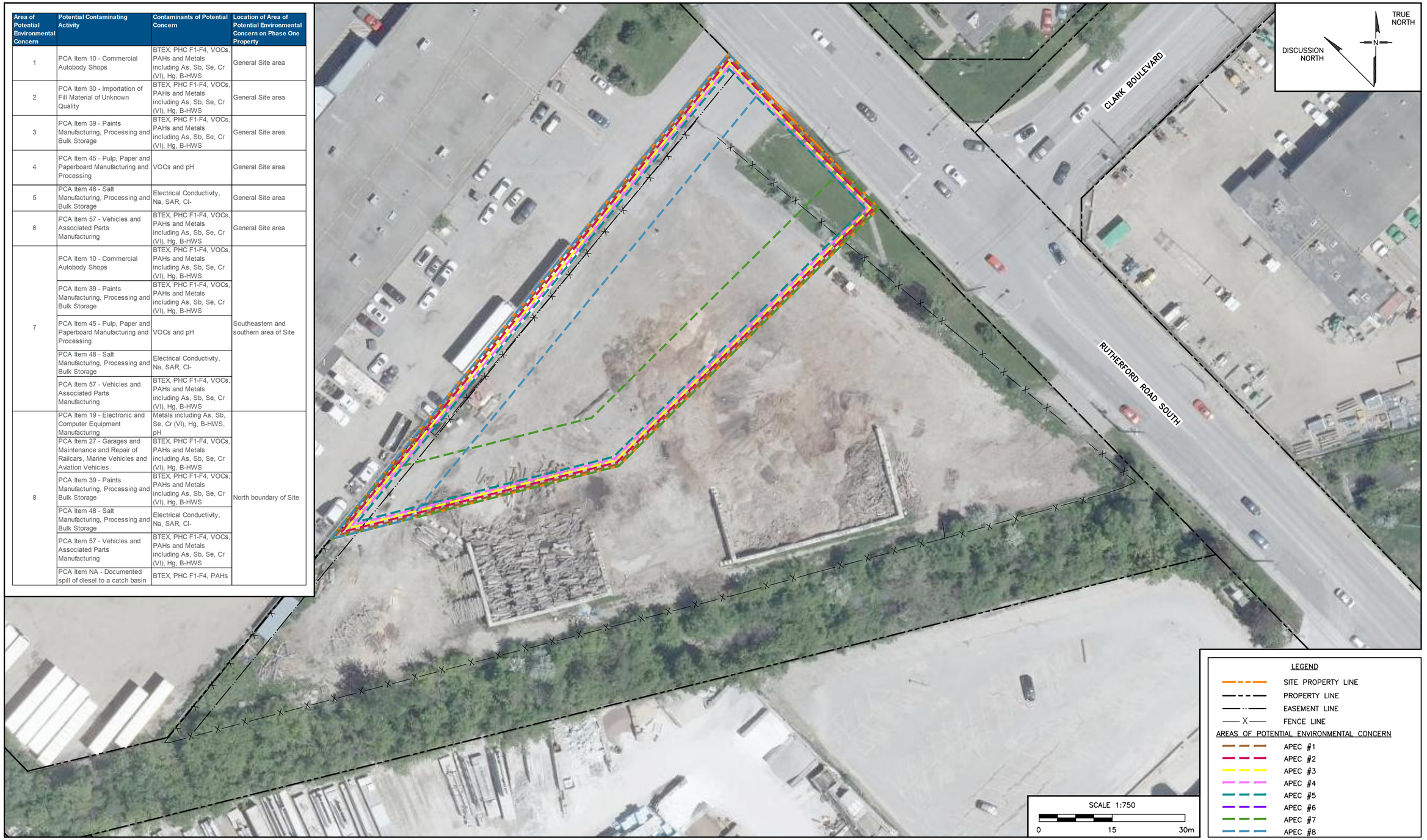
Title: PHASE ONE CONCEPTUAL SITE MODEL POTENTIALLY CONTAMINATING ACTIVITIES

Project No:	Filename:	Date:	Dwg No:
671835	011F04_671835	AUGUST 2021	FIGURE 4
Drawn: AG	Verified: RHH	Project Manager: AY	

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\011 (2021 RSC)\011F04_671835.dwg

PAGE FORMAT: 11x17

Area of Potential Environmental Concern	Potential Contaminating Activity	Contaminants of Potential Concern	Location of Area of Potential Environmental Concern on Phase One Property
1	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
2	PCA Item 30 - Importation of Fill Material of Unknown Quality	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
3	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
4	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	General Site area
5	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	General Site area
6	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
7	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Southeastern and southern area of Site
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
8	PCA Item 19 - Electronic and Computer Equipment Manufacturing	Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	North boundary of Site
	PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item NA - Documented spill of diesel to a catch basin	BTEX, PHC F1-F4, PAHs	



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2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title: PHASE ONE CONCEPTUAL SITE MODEL
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Project No:	Filename:	Date:	Dwg No:
671835	011F05_671835	AUGUST 2021	FIGURE 5
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\011 (2021 RSC)\011F05_671835.dwg

Appendix A

Site Survey

SCHEDULE			
PART	LOT	PLAN	PIN
1	PART OF LOT 13	REGISTERED PLAN No. 644	PART OF PIN 14032-0049 (LT)
2			
3			
4			
5			

PARTS 1 TO 9, INCLUSIVE, COMPRISE ALL OF PIN 14032-0049 (LT).

SCHEDULE			
PART	LOT/BLOCK	PLAN	PIN
6	PART OF LOT 13 AND ALL OF BLOCK A	REGISTERED PLAN No. 644	PART OF PIN 14032-0049 (LT)
7	PART OF BLOCK L	REGISTERED PLAN No. 518	
8			
9			

PART 7 - SUBJECT TO AN EASEMENT AS IN INST. No. VS103834.
PART 9 - SUBJECT TO AN EASEMENT AS IN INST. No. VS149099E.

PLAN 43R-39855

Received and deposited

April 14th, 2021

Jane Potter

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

RUTHERFORD ROAD
(DEDICATED BY REGISTERED PLAN No. 644)
PIN 14032-0145 (LT)

Phase One Property
Phase Two Property
RSC Property

PLAN OF SURVEY OF
ALL OF BLOCK A AND
PART OF LOT 13
REGISTERED PLAN No. 644 AND
PART OF BLOCK L
REGISTERED PLAN No. 518
CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL
SCALE 1 : 500

10 0 10 20 30 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 609mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:500

J.D. BARNES LIMITED

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

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999693.

FOR BEARING COMPARISONS, A ROTATION OF 0°52'00" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2 AND P3.

INTEGRATION DATA		
OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD83 (CSRS) (2010.0).		
COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF O.REG 216/10.		
POINT ID	EASTING	NORTHING
ORP (A)	601 484.38	4 839 358.29
ORP (B)	601 646.57	4 839 197.14
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.		

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT SET
SIB	DENOTES	STANDARD IRON BAR
RIB	DENOTES	ROUND IRON BAR
IB	DENOTES	IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
CP	DENOTES	CONCRETE PIN WITH WASHER
WIT	DENOTES	WITNESS
P1	DENOTES	PLAN 43R-18760
P2	DENOTES	REGISTERED PLAN No. 644
P3	DENOTES	PLAN 43R-11820
P4	DENOTES	PLAN OF SURVEY BY J.D. BARNES LIMITED, DATED MAY 7, 2018. REFERENCE No. 18-30-218-00-A.
P5	DENOTES	REGISTERED PLAN No. 518
P6	DENOTES	SURVEYOR'S REAL PROPERTY REPORT BY J.D. BARNES LIMITED, DATED JULY 9, 2019. REFERENCE No. 19-30-394-00.
P7	DENOTES	PLAN 43R-39358
MEAS	DENOTES	MEASURED
NI	DENOTES	NOT IDENTIFIABLE
1302	DENOTES	A. SKRANDA, O.L.S.
OU	DENOTES	ORIGIN UNKNOWN

N=NORTH / S=SOUTH / E=EAST / W=WEST

ALL FOUND SURVEY MONUMENTS WERE ORIGINALLY SET BY J.D. BARNES LIMITED, UNLESS NOTED OTHERWISE.

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 12th DAY OF MARCH, 2021.

APRIL 7th, 2021
DATE

THOMAS J. SALB
ONTARIO LAND SURVEYOR

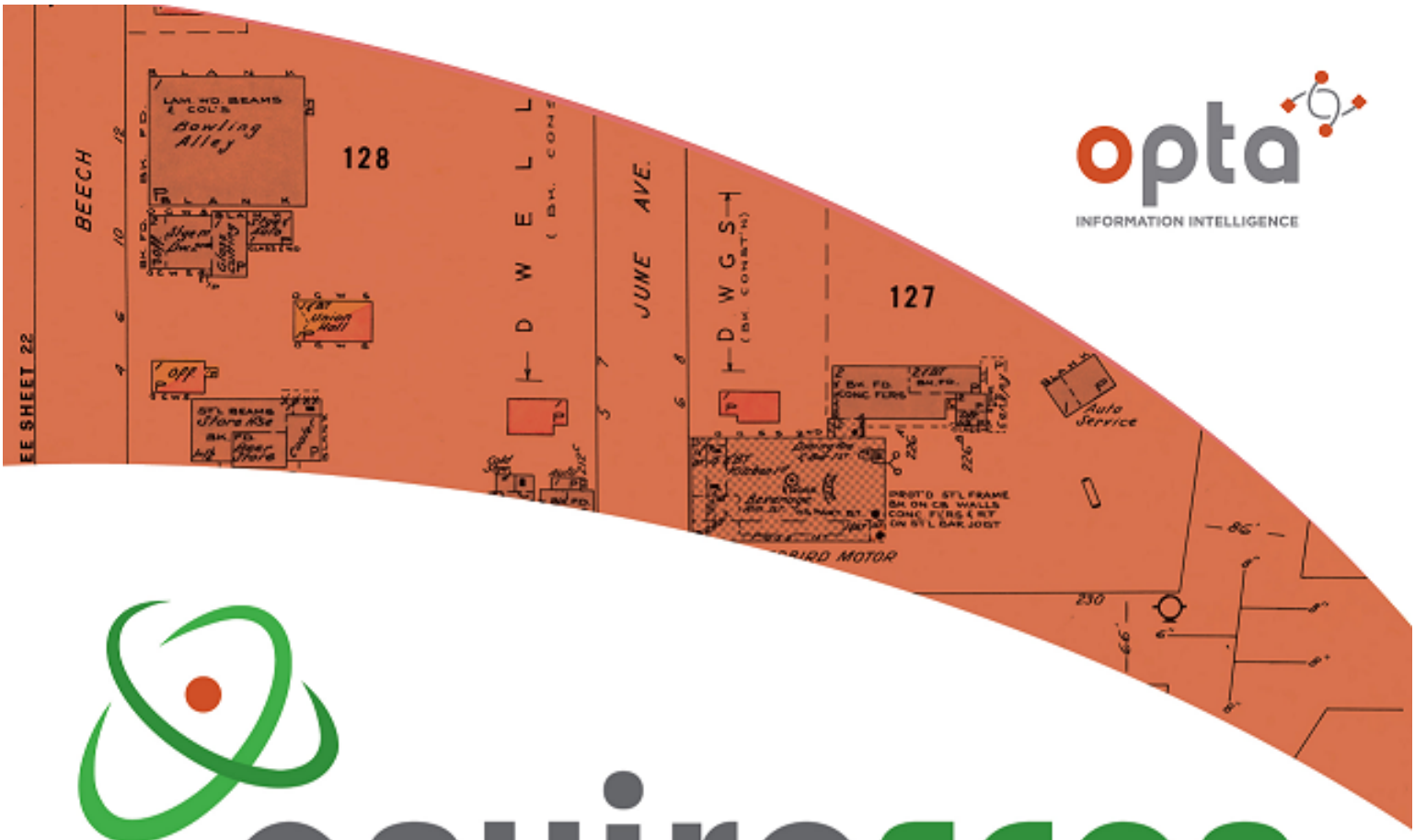
THIS PLAN OF SURVEY RELATES TO AOLS PLAN SUBMISSION FORM NUMBER 2149378

J. D. BARNES LIMITED
SURVEYING MAPPING GIS
LAND INFORMATION SPECIALISTS
401 WHEELABRATOR WAY, SUITE A, MILTON, ON L9T 3C1
T: (905) 875-9955 F: (905) 875-9956 www.jdbarnes.com

DRAWN BY:	CHECKED BY:	REFERENCE NO.:
AP	TJS	18-30-218-02-A
FILE: G:\18-30-218\02\Drawing\18-30-218-02-A.dgn		DATED: APRIL 7th, 2021

Appendix B

Fire Insurance Plans



opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Stephanie

Site Address:

25 Rutherford Road SouthBrampton

Project No:

20200330032

Opta Order ID:

72831

Requested by:

Eleanor Goolab
ERIS

Date Completed:

4/7/2020 8:50:16 AM

Project Name: 25 Rutherford Road South City of Brampton

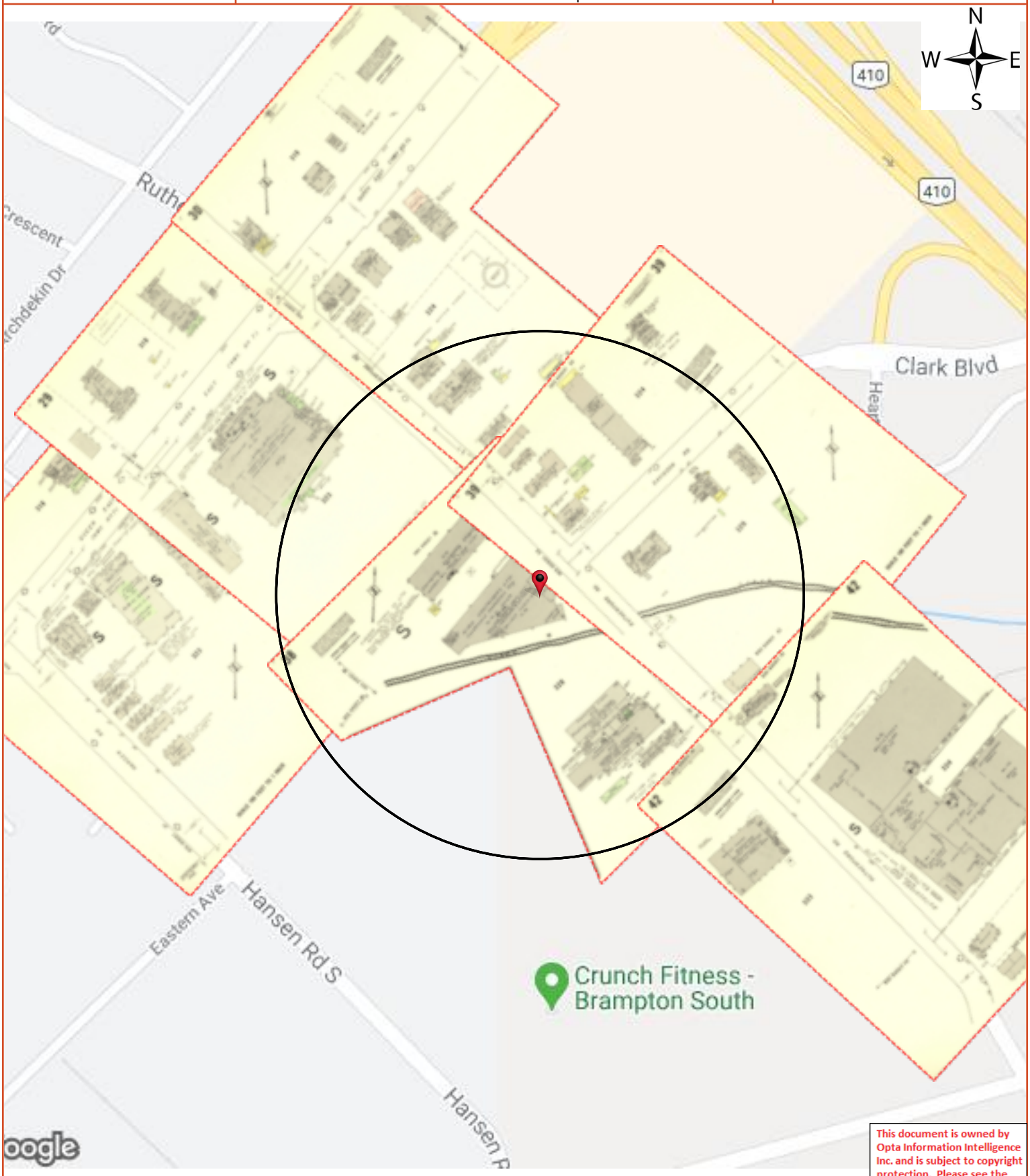
Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

Search Area: 25 Rutherford Road SouthBrampton

Requested by:
Eleanor Goolab
Date Completed: 04/07/2020 08:50:16

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

ENVIROSCAN Report

Report Index

OPTA INFORMATION INTELLIGENCE

Page	Report Title
6	(1971) Volume: Brampton Firemap: 28
8	(1971) Volume: Brampton Firemap: 29
10	(1971) Volume: Brampton Firemap: 30
12	(1971) Volume: Brampton Firemap: 38
14	(1971) Volume: Brampton Firemap: 39
16	(1971) Volume: Brampton Firemap: 42

Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

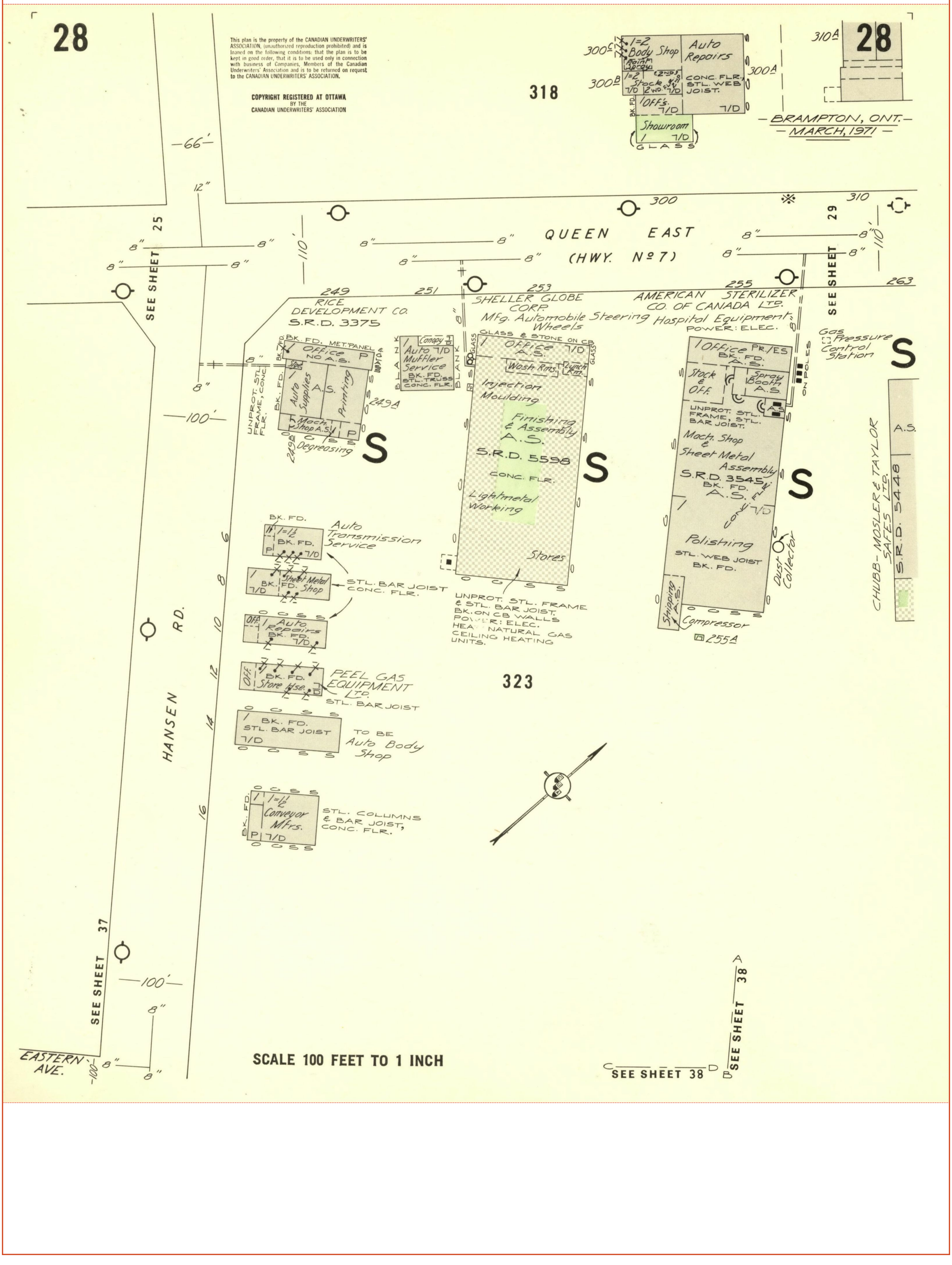
1971 Volume: Brampton Firemap: 28
Brampton Plan: 228 (1971)
Sheet: 28 (1971)

Requested by:
Eleanor Goolab
Date Completed: 04/07/2020 08:50:16

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

1971 Volume: Brampton Firemap: 28
Brampton Plan: 228 (1971)
Sheet: 28 (1971)



Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

1971 Volume: Brampton Firemap: 29
Brampton Plan: 228 (1971)
Sheet: 29 (1971)

Requested by:
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Date Completed: 04/07/2020 08:50:16

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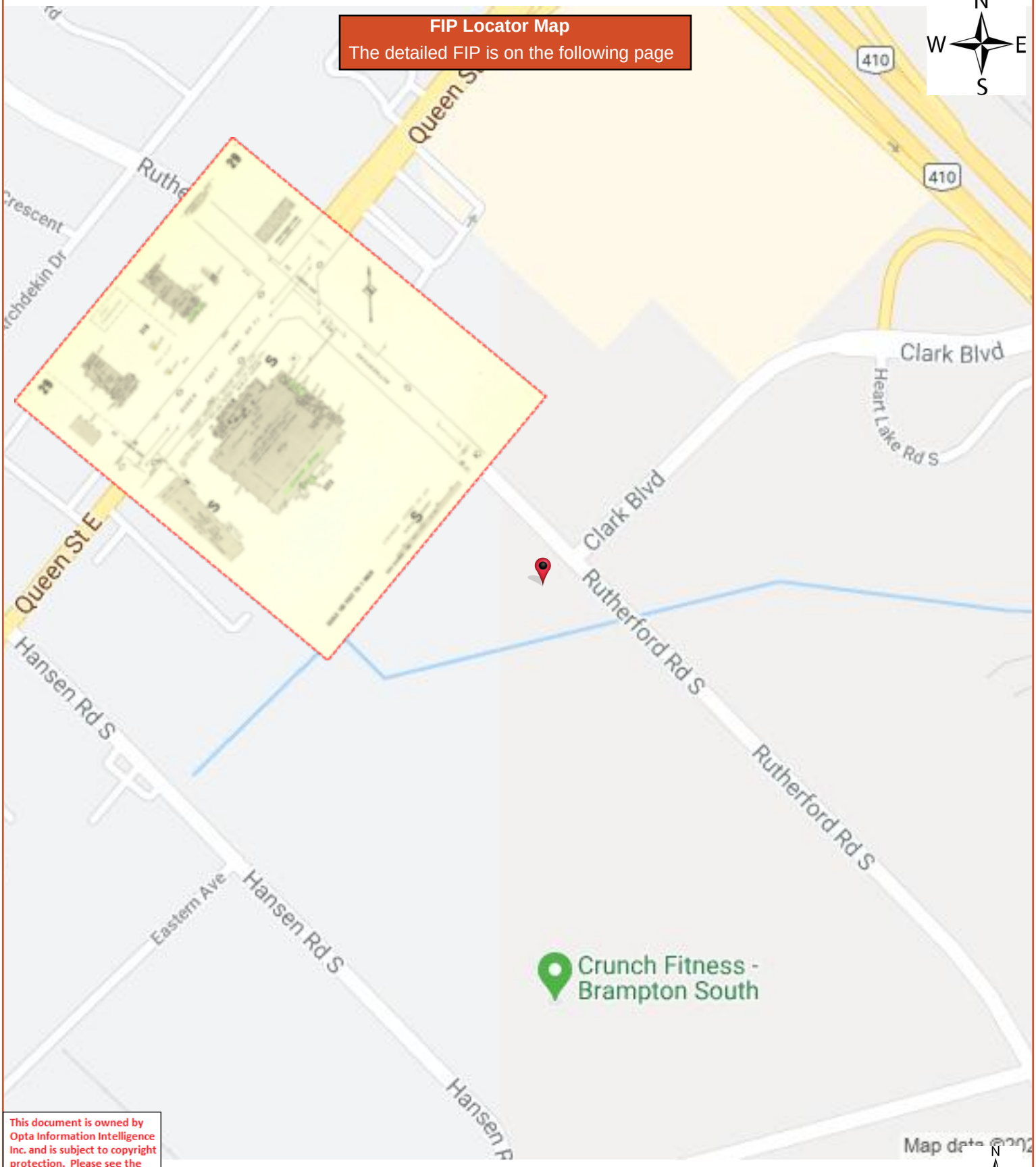
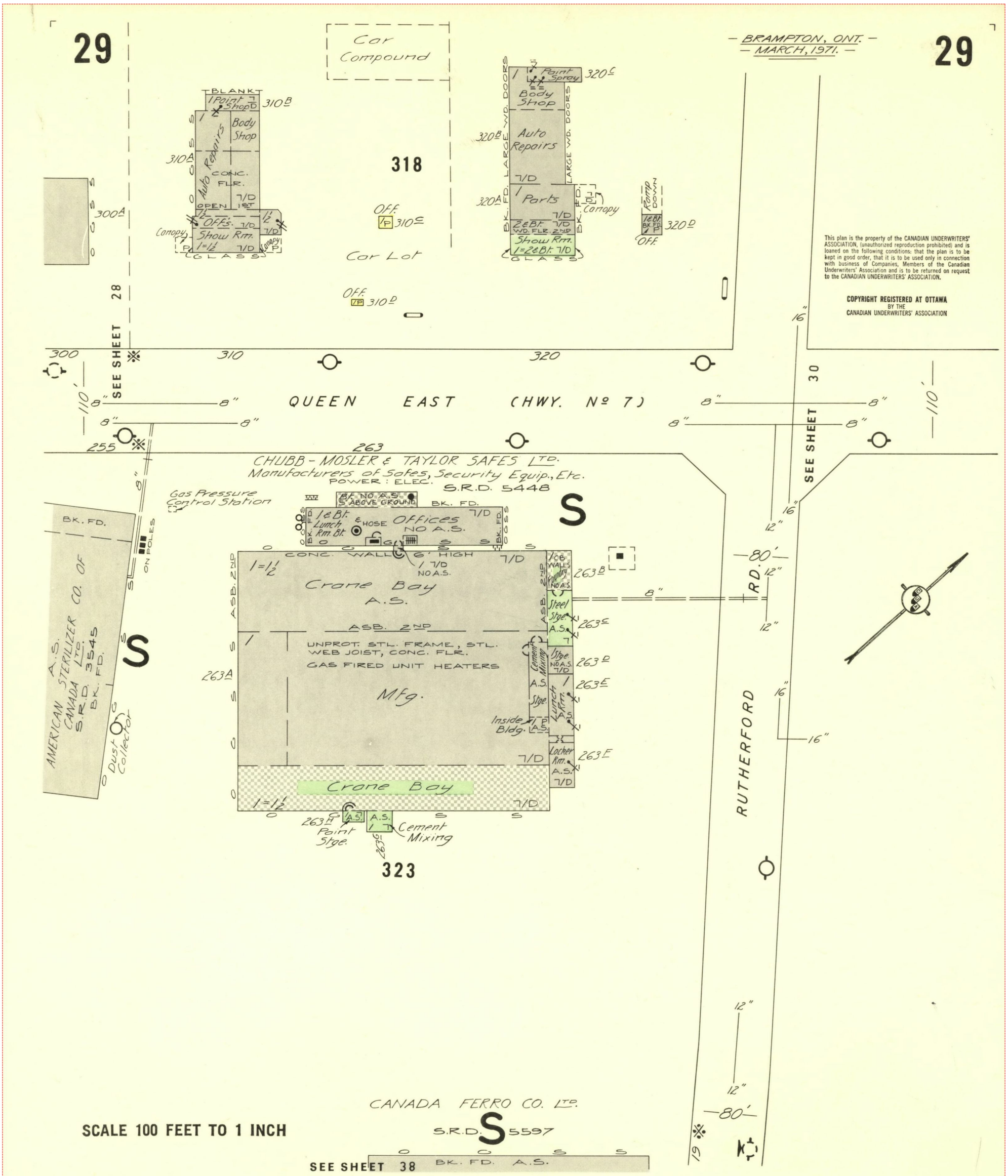
FIP Locator Map
The detailed FIP is on the following page




29
BRAMPTON, ONT.
MARCH, 1971.
29
Car Compound
318
BLANK
Paint Shop
Body Shop
Auto Repairs
CONC. FLR.
OPEN
OFF's.
Show Rm.
GLASS
Canopy
Paint Spray
Body Shop
Auto Repairs
LARGE WD. DOORS
Parts
2 & Bt.
WD. FLR. 2ND
Show Rm.
1=2 & Bt. T/D
Ramp Down
1 & Bt. BK. FD.
OFF.
Off. 310C
Car Lot
Off. 310D
300A
310A
310B
320A
320B
320C
320D
SEE SHEET 28
SEE SHEET 30
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320
QUEEN EAST (HWY. Nº 7)
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263
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POWER: ELEC. S.R.D. 5448
Gas Pressure Control Station
BK. NO A.S. 5 ABOVE GROUND
BK. FD.
1 & Bt. Lunch Rm. Bt.
Offices NO A.S.
& HOSE
CONC. WALL 6' HIGH
1 T/D NO A.S.
Crane Bay A.S.
ASB. 2ND
UNPROT. STL. FRAME, STL. WEB JOIST, CONC. FLR.
GAS FIRED UNIT HEATERS
Mfg.
Crane Bay
Foundry NO A.S.
Steel Stge.
Stge. NO A.S.
Cement Mixing
Lunch Rm.
Inside Bldg.
Locker Rm.
Paint Stge.
Cement Mixing
AMERICAN STERILIZER CO. OF CANADA LTD. S.R.D. 3545 BK. FD.
Dust Collector
ON POLES
263A
263B
263C
263D
263E
263F
263G
263H
323
SEE SHEET 29
RUTHERFORD RD.
80'
110'
SCALE 100 FEET TO 1 INCH
CANADA FERRO CO. LTD.
S.R.D. S 5597
BK. FD. A.S.
SEE SHEET 38

Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

1971 Volume: Brampton Firemap: 30
Brampton Plan: 228 (1971)
Sheet: 30 (1971)

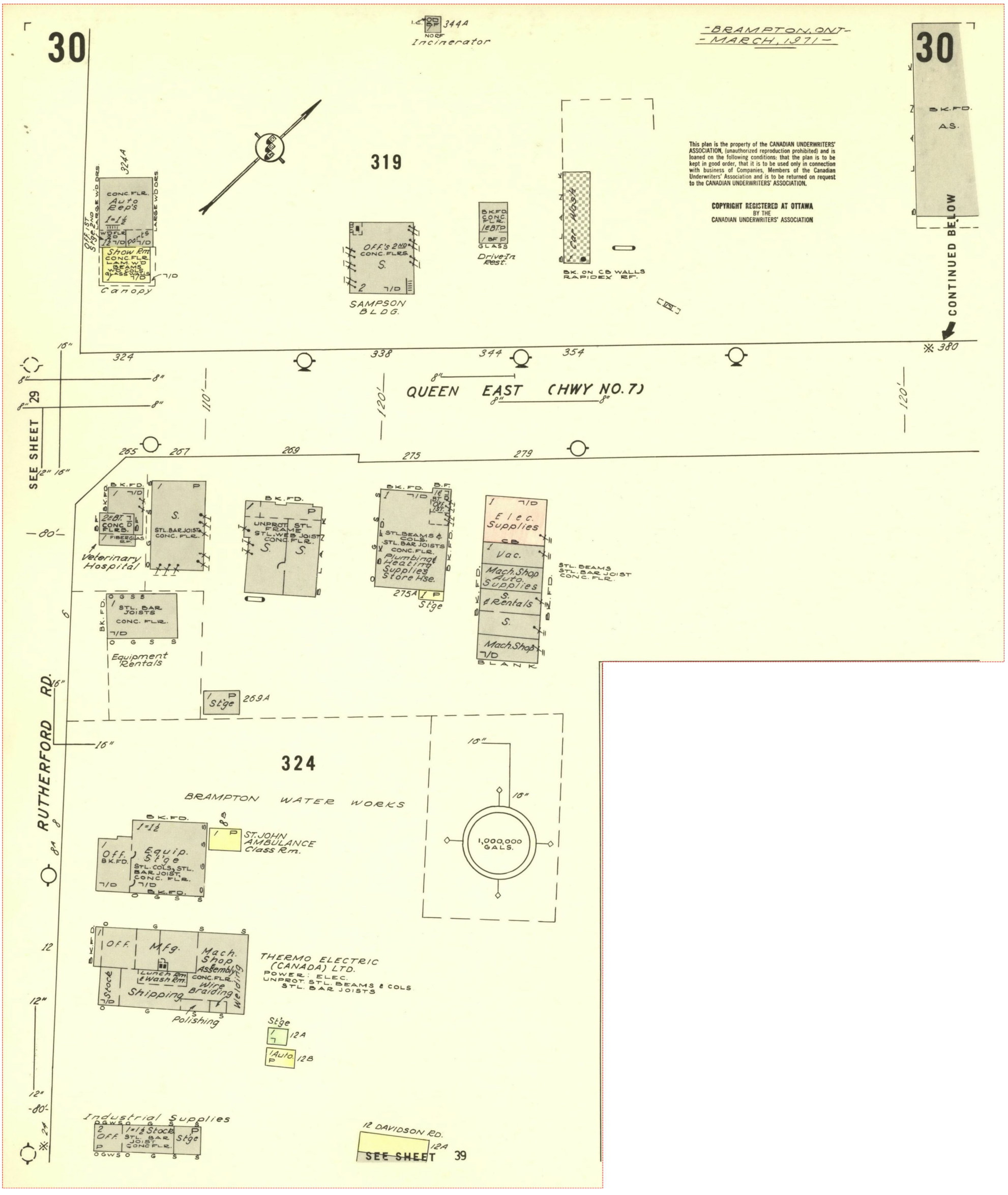
Requested by:
Eleanor Goolab
Date Completed: 04/07/2020 08:50:16

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

ENVIROSCAN Report

1971 Volume: Brampton Firemap: 30
Brampton Plan: 228 (1971)
Sheet: 30 (1971)



Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
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Project Name: 25 Rutherford Road South City of Brampton

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P.O. #: 671835

1971 Volume: Brampton Firemap: 38
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Requested by:
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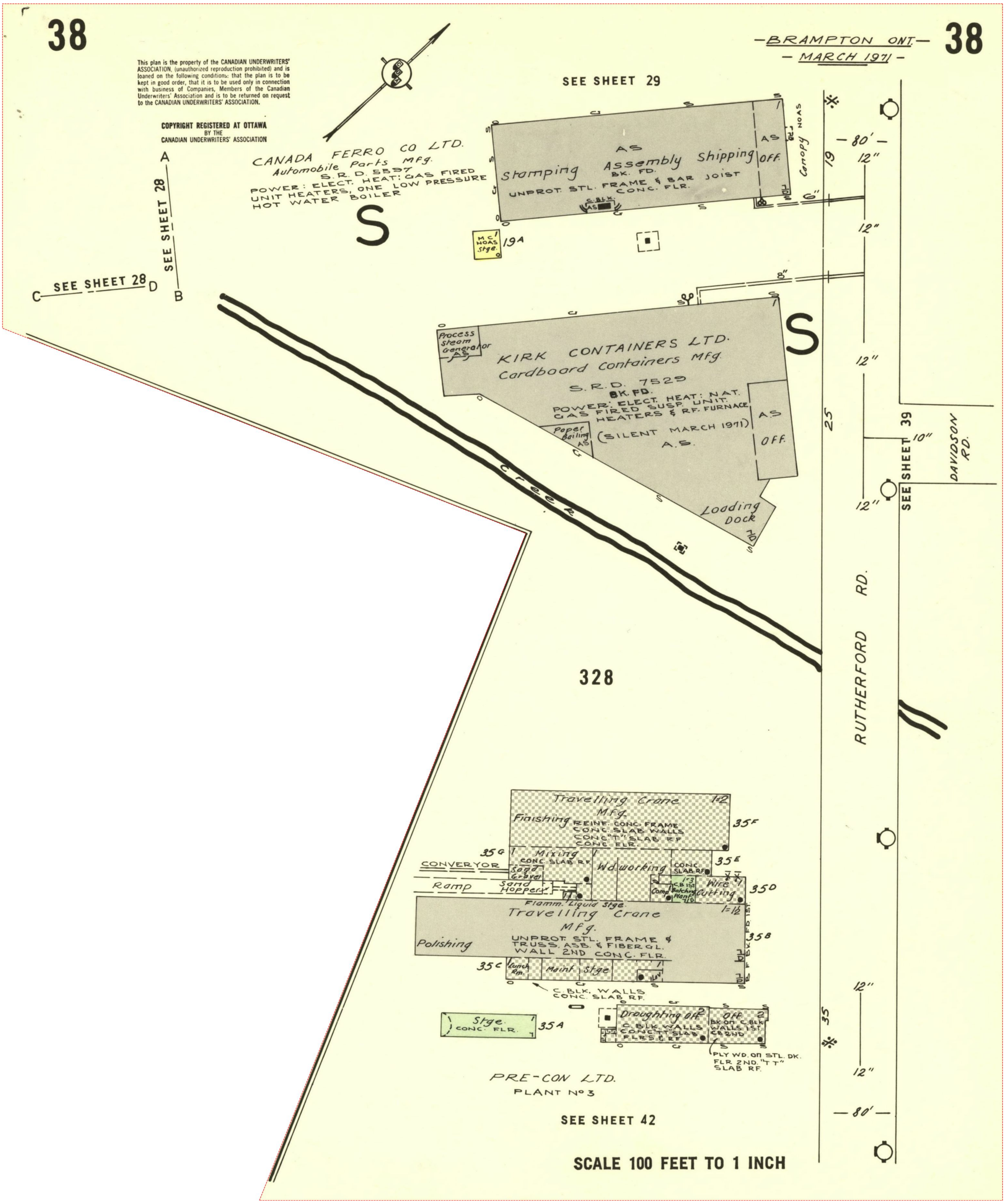
OPTA INFORMATION INTELLIGENCE


38
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COPYRIGHT REGISTERED AT OTTAWA BY THE CANADIAN UNDERWRITERS' ASSOCIATION
— BRAMPTON ONT. —
— MARCH 1971 —
38
SEE SHEET 29
SEE SHEET 28
SEE SHEET 28
CANADA FERRO CO LTD.
Automobile Parts Mfg.
S.R.D. 5597
POWER: ELECT. HEAT: GAS FIRED UNIT HEATERS, ONE LOW PRESSURE HOT WATER BOILER
Stamping
AS
Assembly
Shipping
BK. FD.
UNPROT. STL. FRAME & BAR JOIST
CONC. FLR.
AS
OFF.
Canopy NOAS
C.BLK.
M.C. NOAS Stge.
19A
19
80'
12"
6"
8"
KIRK CONTAINERS LTD.
Cardboard Containers Mfg.
S.R.D. 7529
BK. FD.
POWER: ELECT. HEAT: NAT. GAS FIRED SUSP. UNIT HEATERS & RF. FURNACE
(SILENT MARCH 1971)
A.S.
Process Steam Generator AS
Paper Bailing AS
AS
OFF.
Loading Dock
Creek
25
12"
10"
SEE SHEET 39
DAVIDSON RD.
RUTHERFORD RD.
328
Travelling Crane Mfg.
Finishing
REINF. CONC. FRAME
CONC. SLAB WALLS
CONC. "T" SLAB RF
CONC. FLR.
1-2
35F
35G
Mixing
CONC. SLAB RF.
Sand Gravel
Wd. working
CONC. SLAB RF.
35E
CONVERYOR
Ramp
Sand Hopper
Comp.
1-3 C.B 1ST Batching Plant
Wire Cutting
35D
Flamm. Liquid Stge.
Travelling Crane Mfg.
Polishing
UNPROT. STL. FRAME & TRUSS. ASB. & FIBERGL. WALL 2ND CONC. FLR.
1-1½
35B
35C
Lunch Rm.
Maint.
Stge
C.BLK. WALLS
CONC. SLAB RF.
Stge.
CONC. FLR.
35A
Draughting Off.
C.BLK. WALLS
CONC. "TT" SLAB FLRS & RF.
Off.
BK on C.BLK. WALLS 1ST CB 2ND
PLY WD. on STL. DK. FLR 2ND. "TT" SLAB RF.
35
PRE-CON LTD.
PLANT No 3
SEE SHEET 42
SCALE 100 FEET TO 1 INCH

Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

1971 Volume: Brampton Firemap: 39
Brampton Plan: 228 (1971)
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Requested by:
Eleanor Goolab
Date Completed: 04/07/2020 08:50:16

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
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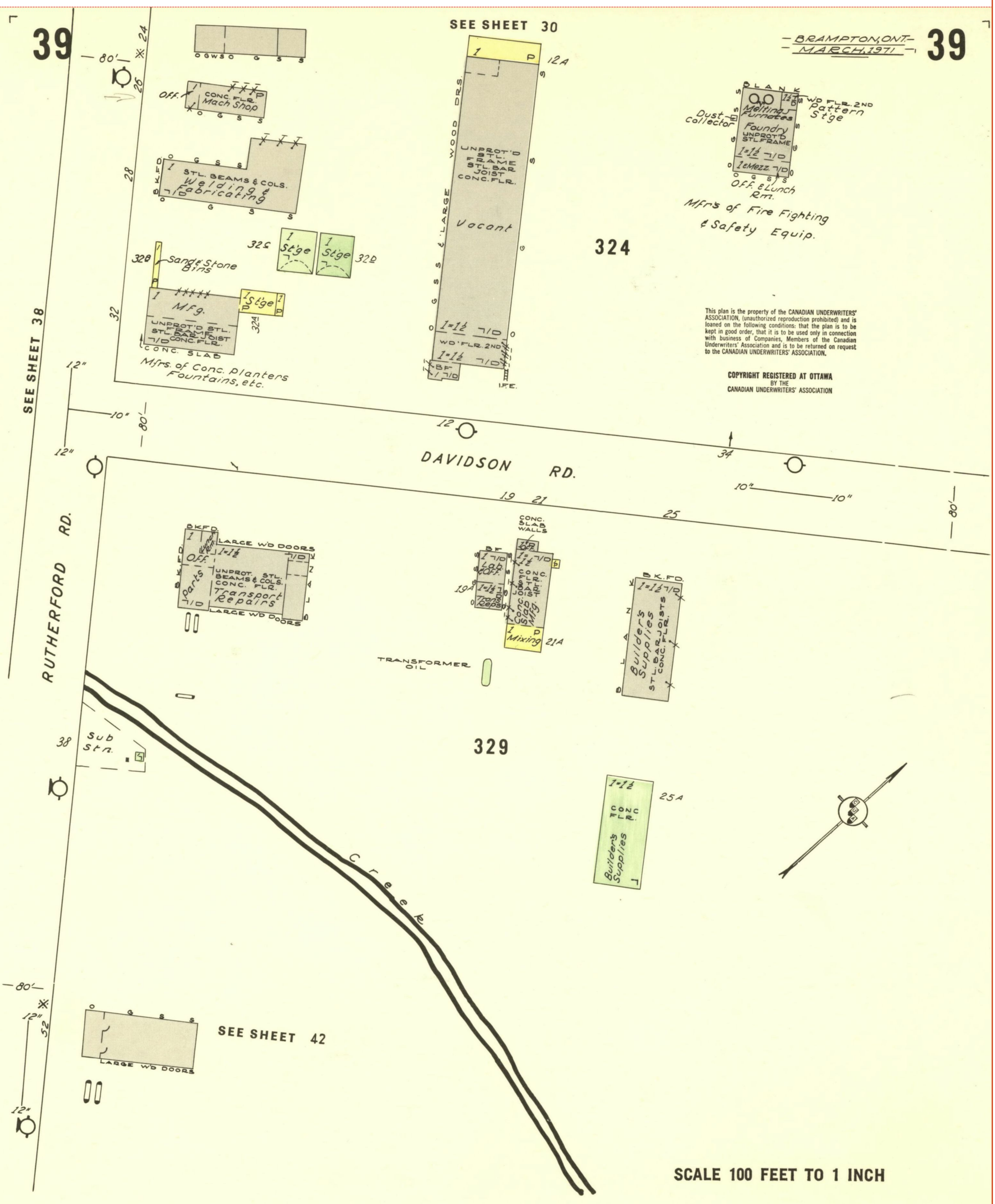
39
BRAMPTON, ONT.
MARCH, 1971
39
SEE SHEET 30
SEE SHEET 38
SEE SHEET 42
RUTHERFORD RD.
DAVIDSON RD.
Off.
CONC. FLR. Mach Shop
STL. BEAMS & COLS. Welding & Fabricating
Sand & Stone Bins
MFG.
UNPROT'D STL. FRAME STL. BAR JOIST CONC. FLR.
CONC. SLAB
Mfrs. of Conc. planters Fountains, etc.
Stge
WOOD DRS.
UNPROT'D STL. FRAME STL. BAR JOIST CONC. FLR.
Vacant
WD. FLR. 2ND
BF
I.F.E.
324
BLANK
Melting Furnaces
Foundry UNPROT'D STL. FRAME
1 eMezz.
Off. & Lunch Rm.
WD. FLR. 2ND Pattern Stge
Dust Collector
Mfr's of Fire Fighting & Safety Equip.
This plan is the property of the CANADIAN UNDERWRITERS' ASSOCIATION, (unauthorized reproduction prohibited) and is loaned on the following conditions: that the plan is to be kept in good order, that it is to be used only in connection with business of Companies, Members of the Canadian Underwriters' Association and is to be returned on request to the CANADIAN UNDERWRITERS' ASSOCIATION.
COPYRIGHT REGISTERED AT OTTAWA BY THE CANADIAN UNDERWRITERS' ASSOCIATION
LARGE WD DOORS
Parts
Off.
UNPROT. STL. BEAMS & COLS. CONC. FLR. Transport Repairs
CONC. SLAB WALLS
Lab
Off.
Trans Repairs
CONC. FLR. JOIST
Mixing
Builders Supplies
STL. BAR JOISTS CONC. FLR.
TRANSFORMER OIL
329
Sub Stn.
Creek
Builders Supplies
CONC FLR.
25A
SCALE 100 FEET TO 1 INCH

Project Name: 25 Rutherford Road South City of Brampton

Project #: 20200330032
P.O. #: 671835

ENVIROSCAN Report

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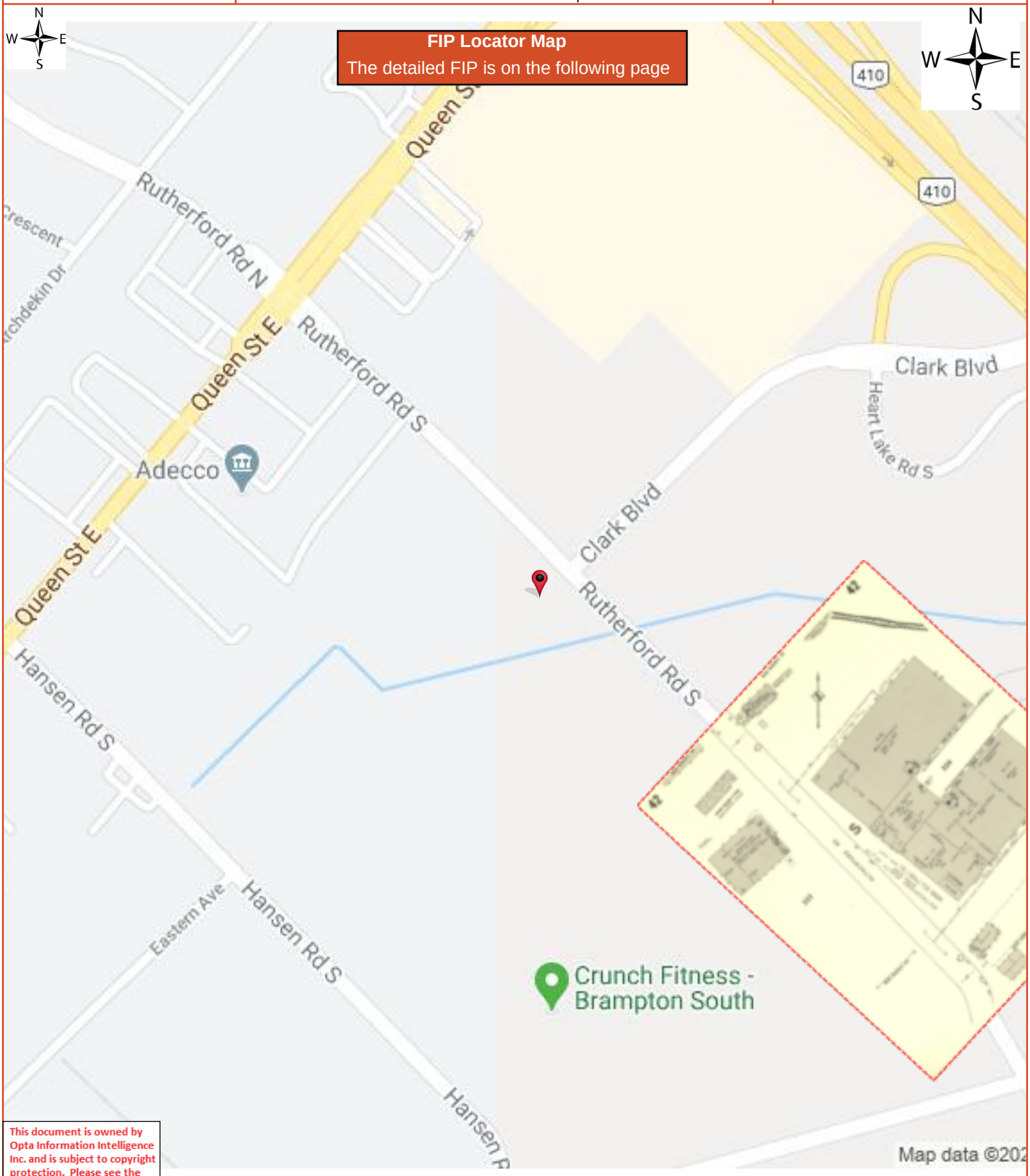
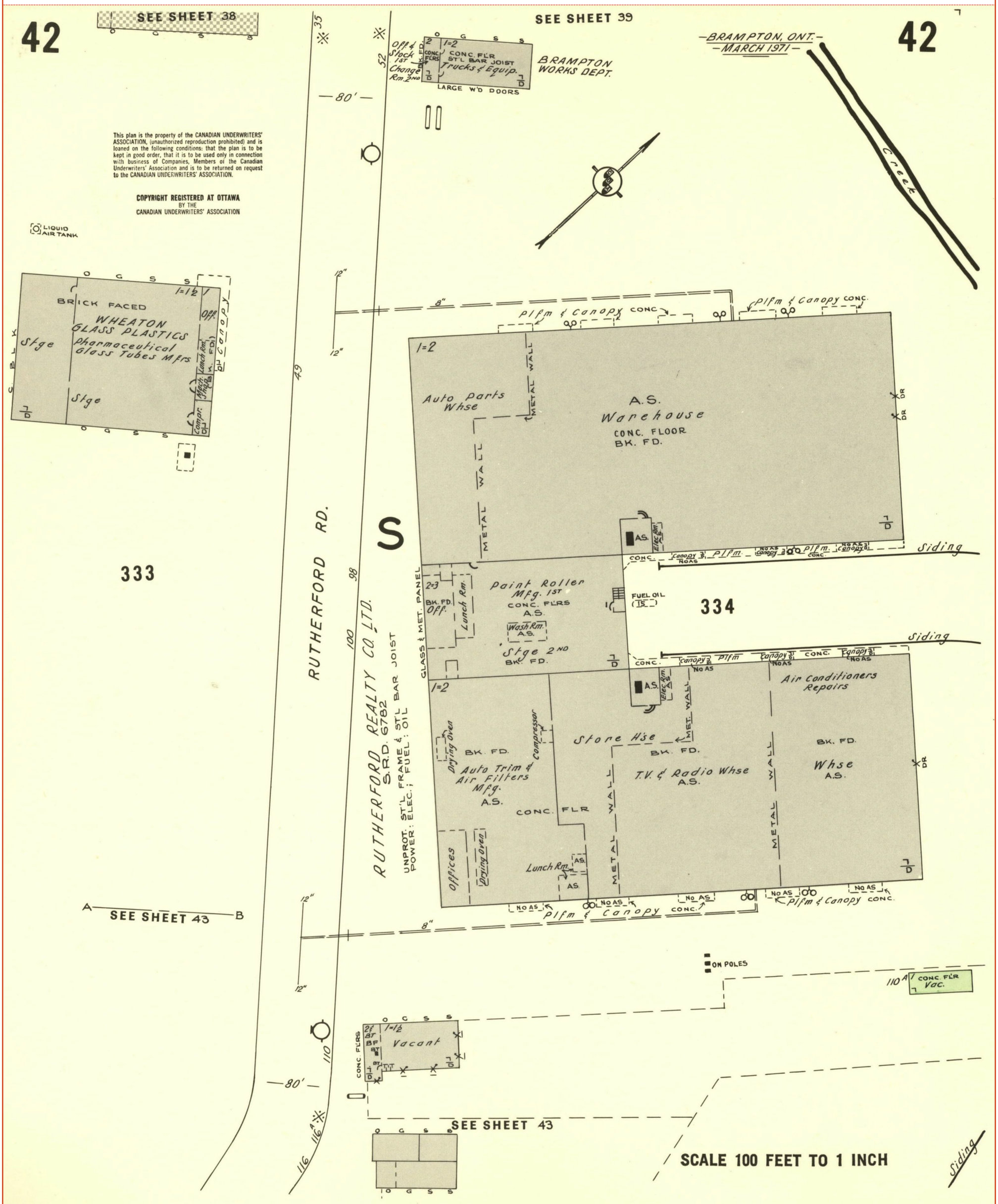


1971 Volume: Brampton Firemap: 42
Brampton Plan: 228 (1971)
Sheet: 42 (1971)



Appendix C

Chain of Title

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

PROPERTY DESCRIPTION: BLK A PL 644 BRAMPTON; PT BLK L PL 518 BRAMPTON PTS 1 TO 3, 43R11820; PT LT 13 PL 644 BRAMPTON PT 2 & 3, 43R18760: S/T VS103834, VS149099E BRAMPTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
RE-ENTRY FROM 14032-0221

PIN CREATION DATE:
1999/02/22

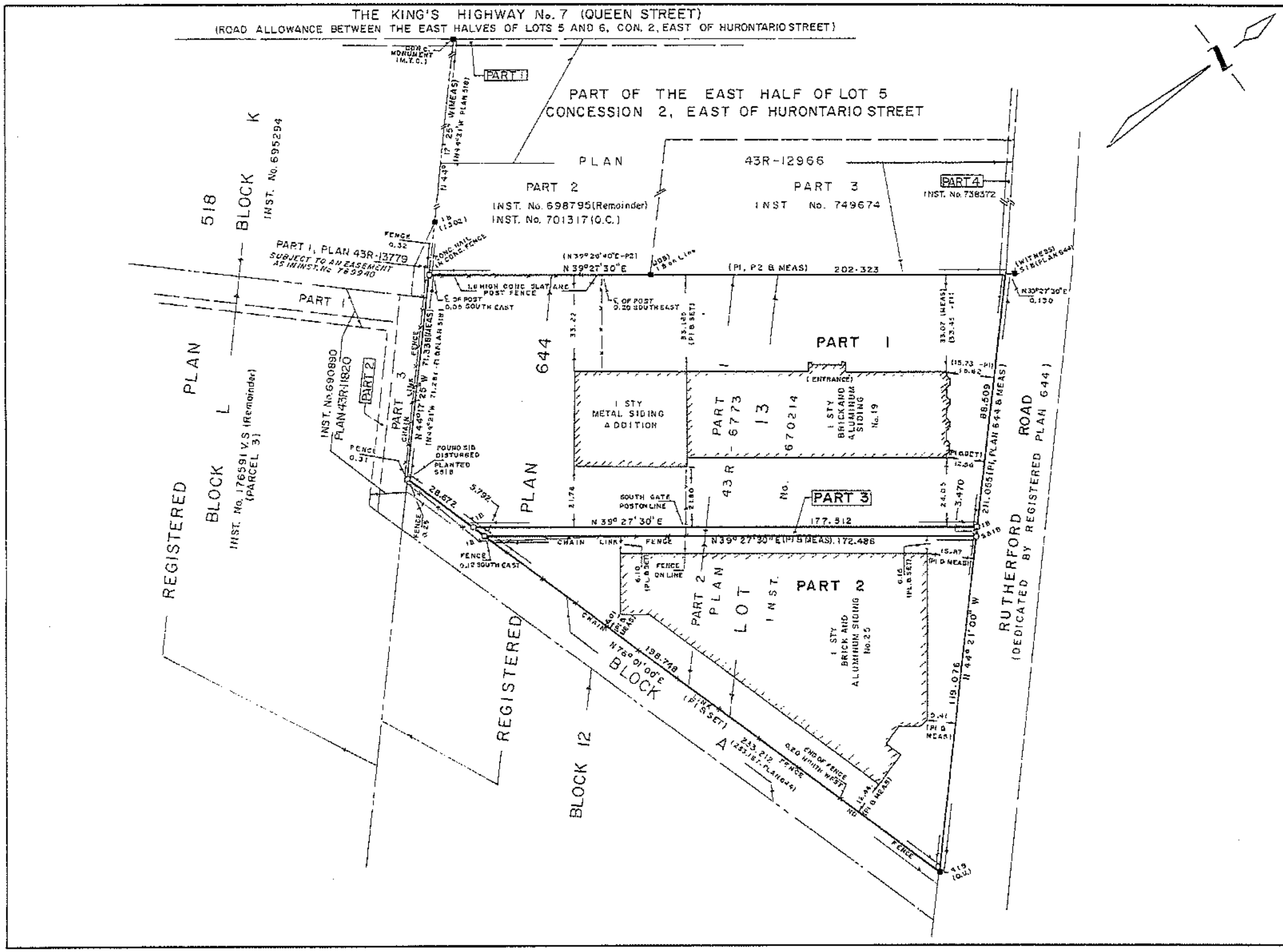
OWNERS' NAMES
THE CORPORATION OF THE CITY OF BRAMPTON

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1997/06/24 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1999/02/22						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) ***						
***SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:*						
*** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES **						
*** AND ESCHEATS OR FORFEITURE TO THE CROWN.*						
*** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF*						
*** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY*						
*** CONVENTION.*						
*** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.*						
***DATE OF CONVERSION TO LAND TITLES: 1999/02/23 ***						
PL644	1961/02/27	PLAN SUBDIVISION				C
BR47841	1963/07/16	LEASE			CANADA-FERRO COMPANY LIMITED	C
VS4231	1966/03/04	BYLAW				C
VS103834	1969/04/03	TRANSFER EASEMENT			THE CORPORATION OF THE TOWN OF BRAMPTON	C
VS115398	1969/07/23	NOTICE OF LEASE			KIRK CONTAINERS LIMITED	C
VS133843	1970/02/20	DEBENTURE	$150,000		MOMENTO MORI INVESTMENTS LIMITED	C
VS149099E	1970/09/01	TRANSFER EASEMENT			THE CORPORATION OF THE TOWN OF BRAMPTON	C
VS149497	1970/09/04	NOTICE				C
REMARKS: CONDITIONAL SALE						

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
VS171866	1971/06/02	AGREEMENT				C
VS217840	1972/06/30	NOTICE OF LEASE			BROCK CONTAINERS LIMITED	C
RO489274	1978/09/13	NOTICE				C
	REMARKS: INTEREST UNDER LEASE					
RO495985	1978/11/08	ASSIGNMENT LEASE			IMPERIAL GENERAL PROPERTIES LIMITED	C
	REMARKS: BR51990					
43R6773	1979/04/10	PLAN REFERENCE				C
RO546753	1980/04/29	NOTICE OF LEASE			HAUGHS PRODUCTS LIMITED	C
43R11820	1984/08/10	PLAN REFERENCE				C
RO690890	1984/08/20	TRANSFER	$2		THE CORPORATION OF THE CITY OF BRAMPTON	C
RO914075	1989/10/17	AGREEMENT			THE CITY OF BRAMPTON	C
43R18760	1991/09/17	PLAN REFERENCE				C
RO984206	1991/09/25	TRANSFER	$2,000,000		THE CORPORATION OF THE CITY OF BRAMPTON	C
LT2057426	2000/03/27	NOTICE		HER MAJESTY THE QUEEN IN RIGHT OF THE DEPARTMENT OF TRANSPORT CANADA		C
	REMARKS: PEARSON AIRPORT ZONING REGULATION					
43R39358	2020/02/27	PLAN REFERENCE				C
	REMARKS: PR3619490.					
PR3811609	2021/04/07	LR'S ORDER		LAND REGISTRAR, PEEL LAND REGISTRY OFFICE		C
	REMARKS: AMENDING DESCRIPTION AND DELETING BR42908					



SURVEYOR'S COPY

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE REGISTRY ACT.	PLAN 43R-18760 RECEIVED AND DEPOSITED
DATE SEPTEMBER 16, 1991	DATE SEPTEMBER 17 1991
A. ROCCAFORTE ONTARIO LAND SURVEYOR	LAND REGISTRAR FOR THE REGISTRY DIVISION OF PEEL (No 43)

SCHEDULE OF PARTS

PART	LOT	PLAN	INST. No.	AREA
1	13	644	670214	1.7594 Ha
2	13			1.0210 Ha
3	13			0.0604 Ha

PLAN OF SURVEY OF LOT 13, REGISTERED PLAN 644
CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL

SCALE - 1 : 1000

J. D. BARNES LIMITED
1991

METRIC DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTES:
BEARINGS HEREON ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EASTERLY LIMIT OF LOT 13, AS SHOWN ON REGISTERED PLAN 644, HAVING A BEARING OF N 44°21'00"W

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT PLANTED
SIB	DENOTES	STANDARD IRON BAR
IB	DENOTES	IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
PL.	DENOTES	PLAN 43R-6773
JDB	DENOTES	J. D. BARNES LIMITED
P1	DENOTES	PLAN 43R-6773
P2	DENOTES	PLAN 43R-12966
1302	DENOTES	AIVARS SKRANDA, O.L.S.
M.T.C.	DENOTES	MINISTRY OF TRANSPORTATION & COMMUNICATIONS
O.U.	DENOTES	ORIGIN UNKNOWN

CAUTION THIS PLAN IS NOT A PLAN OF SUBDIVISION WITHIN THE MEANING OF THE PLANNING ACT.

SURVEYOR'S CERTIFICATE
I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT AND THE REGISTRY ACT AND THE REGULATIONS MADE THEREUNDER
2. THE SURVEY WAS COMPLETED ON THE 6th DAY OF SEPTEMBER, 1991.

DATE SEPTEMBER 10, 1991

A. ROCCAFORTE
ONTARIO LAND SURVEYOR

J.D. BARNES LIMITED
SURVEYING MAPPING
LAND INFORMATION SERVICES
OFFICE OF ORIGIN:
1100 CENTRAL PARKWAY WEST, UNIT 4
MISSISSAUGA, ONTARIO L5C 4E5
TELEPHONE (416) 897-7010
FAX (416) 897-7012

DRAWN BY: U. M. | CHECKED BY: AR. | REFERENCE NO.: 90-25-594-01-A

106-4

Appendix D

EcoLog ERIS Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*25 Rutherford Road South, City of Brampton* *25 Rutherford Road South* *Brampton ON L6W 3J3*
Project No:	*671835*
Report Type:	*RSC Report (Urban)*
Order No:	*20200313290*
Requested by:	*SNC-Lavalin Inc.*
Date Completed:	*March 18, 2020*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*25 Rutherford Road South, City of Brampton* *25 Rutherford Road South Brampton ON L6W 3J3*
Project No:	*671835*

Order Information:

Order No:	*20200313290*
Date Requested:	*March 13, 2020*
Requested by:	*SNC-Lavalin Inc.*
Report Type:	*RSC Report (Urban)*

Historical/Products:

Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	3	3
BORE	Borehole	Y	0	9	9
CA	Certificates of Approval	Y	0	10	10
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	1	1
EBR	Environmental Registry	Y	0	6	6
ECA	Environmental Compliance Approval	Y	0	8	8
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	25	25
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	3	3
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FED TANKS	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	2	2
FSTH	Fuel Storage Tank - Historic	Y	0	4	4
GEN	Ontario Regulation 347 Waste Generators Summary	Y	2	144	146
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	2	2
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	2	2

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	23	23
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	1	1
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	5	5
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	3	19	22
SPL	Ontario Spills	Y	0	16	16
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	2	2
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	38	39
	Total:		6	325	331

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SCT	Classic Bedding Ltd.	25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	NE/0.0	0.00	69
1	SCT	BREW-BY-U	25 RUTHERFORD RD S UNIT 4 BRAMPTON ON L6W 3J3	NE/0.0	0.00	69
1	SCT	Fantastic Sleep Shop Ltd.	25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	NE/0.0	0.00	69
1	GEN	Kustom Airworks	25 Rutherford Road Brampton ON	NE/0.0	0.00	69
1	GEN	CITY OF BRAMPTON	25 RUTHERFORD RD BRAMPTON ON	NE/0.0	0.00	70
2	WWIS		ON ***Well ID:*** 7310216	SW/0.0	0.00	70

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	GEN	c-max paint	19 rutherford rd brampton ON L6W-3J3	WNW/32.0	0.83	71
3	GEN	Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	WNW/32.0	0.83	71
4	PES	BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	NW/41.3	0.00	71
4	PES	BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	NW/41.3	0.00	72
4	SCT	Signage & Lighting Systems	19 Rutherford Rd S Brampton ON L6W 3J3	NW/41.3	0.00	72
4	EBR	Signage & Lighting Systems Inc.	19 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON ON	NW/41.3	0.00	72
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	73
4	CA	Signage & Lighting Systems Inc.	19 Rutherford Rd S Brampton ON L6W 3J3	NW/41.3	0.00	73
4	CA	Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	NW/41.3	0.00	73
4	EXP	BRAMPTON HOME HARDWARE	19 RUTHERFORD RD S Suite 3 BRAMPTON ON	NW/41.3	0.00	74
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	74

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	SPL	Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	NW/41.3	0.00	74
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	75
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	75
4	GEN	Rapri Truck Repair Centre	19 Rutherford Road Unit 3 Brampton ON	NW/41.3	0.00	75
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	76
4	GEN	Rapri Truck Repair Centre	19 Rutherford Road Unit 3 Brampton ON	NW/41.3	0.00	76
4	GEN	c-max	19 rutherford rd brampton ON	NW/41.3	0.00	76
4	ECA	Signage & Lighting Systems Inc.	19 Rutherford Rd S Brampton ON L6W 3J3	NW/41.3	0.00	76
4	ECA	Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	NW/41.3	0.00	77
4	GEN	c-max	19 rutherford rd brampton ON L6W-3J3	NW/41.3	0.00	77
4	GEN	Signage and Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	NW/41.3	0.00	77
4	GEN	Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	NW/41.3	0.00	78
4	GEN	c-max	19 rutherford rd brampton ON L6W-3J3	NW/41.3	0.00	78

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	GEN	c-max	19 rutherford rd brampton ON L6W-3J3	NW/41.3	0.00	78
4	GEN	Signage and Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	NW/41.3	0.00	79
4	GEN	c-max paint	19 rutherford rd brampton ON L6W-3J3	NW/41.3	0.00	79
4	GEN	Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	NW/41.3	0.00	79
4	PES	BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	NW/41.3	0.00	80
4	PES	1238473 ONTARIO LTD. \BRAMPTON HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	NW/41.3	0.00	80
5	ECA	The Regional Municipality of Peel	Clark Boulevard and Queen Street East Brampton ON L6T 4B9	E/17.7	-1.02	80
6	EHS		28 Rutherford Road South Brampton ON L6W 3J1	NNE/46.1	0.00	81
6	EASR	CUSTOM AUTOBODY REPAIR AND REFINISHING INC	28 RUTHERFORD RD S BRAMPTON ON L6W 3J1	NNE/46.1	0.00	81
7	SCT	AGGREGATION CONTRACT FURNITURE	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	NE/61.5	-0.35	81
7	SCT	KNECHT & BERCHTOLD INC.	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	NE/61.5	-0.35	81
7	SCT	AGGREGATION CONTRACT FURNITURE	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	NE/61.5	-0.35	82
7	SCT	Aggregation Contract Furniture Inc. - Div. of Knecht & Berchtold Inc.	32 Rutherford Rd S Brampton ON L6W 3J1	NE/61.5	-0.35	82

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	EHS		32 Rutherford Road South Brampton ON L6W 3J1	NE/61.5	-0.35	82
7	EHS		32 Rutherford Road South Brampton ON L6W 3J1	NE/61.5	-0.35	82
8	EHS		Rutherford Road And Clark Brampton ON L6W3J1	NNE/67.6	0.00	83
9	EHS		5 Rutherford Rd South Brampton ON L6W 3J3	NW/118.1	1.63	83
10	GEN	ICI PAINTS (CANADA) INC.	24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	N/97.2	0.00	83
10	GEN	ICI PAINTS (CANADA) INC	24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	N/97.2	0.00	83
10	GEN	ICI Canada Inc.	24A Rutherford Road Brampton ON L6W 3J1	N/97.2	0.00	84
10	GEN	Akzo Nobel Paints LLC	24A Rutherford Road Brampton ON	N/97.2	0.00	84
10	GEN	Akzo Nobel Paints LLC	24A Rutherford Road Brampton ON	N/97.2	0.00	84
11	ECA	The Corporation of the City of Brampton	Queen St E From Centre Street to Highway 410 Brampton ON L6Y 5T1	SW/77.4	0.98	85
12	SPL	PRE-CON COMPANY	ETOBICOKE CREEK BRAMPTON PLANT 35 RUTHERFORD ROAD SOUTH BRAMPTON CITY ON	ESE/131.4	-1.00	85
12	PRT	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF	35 RUTHERFORD RD HANSEN RD ENTRANCE BRAMPTON ON	ESE/131.4	-1.00	85

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	SCT	Armtec/Pre-Con	35 Rutherford Rd S Brampton ON L6W 3J4	ESE/131.4	-1.00	85
12	CA		35 Rutherford Rd. South Brampton ON L6W 3J4	ESE/131.4	-1.00	86
12	GEN	PRE-CON COMPANY	35 RUTHERFORD RD. SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	86
12	GEN	PRE-CON COMPANY	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	86
12	GEN	PRE-CON COMPANY 31-282	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	87
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON	ESE/131.4	-1.00	87
12	FSTH	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	88
12	NPRI	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	ESE/131.4	-1.00	89
12	EBR	Pre-Con Inc.	35 Rutherford Road South Brampton Ontario L6W 3J4 Brampton ON	ESE/131.4	-1.00	90
12	NPRI	PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	ESE/131.4	-1.00	91
12	FSTH	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	92
12	EHS		35 Rutherford Road Brampton ON L6W 3J4	ESE/131.4	-1.00	92

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	NPRI	PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	ESE/131.4	-1.00	92
12	NPRI	PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	ESE/131.4	-1.00	94
12	NPRI	ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	ESE/131.4	-1.00	94
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	95
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	96
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	97
12	EXP	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD SHANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	97
12	EXP	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD SHANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	98
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	98
12	EBR	Armtec GP Inc. operating as Armtec LP	35 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON ON	ESE/131.4	-1.00	99
12	EHS		35 Rutherford Road South Brampton ON	ESE/131.4	-1.00	99
12	GEN	Armtec Ltd.	35 Rutherford Rd. S Brampton ON L6W 3J4	ESE/131.4	-1.00	99

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	GEN	Armtec Ltd.	35 Rutherford Rd. S Brampton ON L6W 3J4	ESE/131.4	-1.00	99
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	100
12	GEN	PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	100
12	GEN	Armtec LP	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	ESE/131.4	-1.00	101
12	SPL	Cooney Bulk Sales Limited	35 Rutherford Road South Brampton ON	ESE/131.4	-1.00	102
12	SPL	L.M. Generating Power <UNOFFICIAL>	35 Rutherford Rd South Brampton ON	ESE/131.4	-1.00	102
12	SPL	Pre-Con Inc.	35 Rutherford Rd S Brampton ON L6W 3J4	ESE/131.4	-1.00	103
13	EHS		36 Rutherford Rd S Brampton ON L6W3J5	E/103.2	-1.02	103
14	SCT	THERMO ELECTRIC CANADA LTD	12 RUTHERFORD RD S BRAMPTON ON L6W 3J2	NNW/118.4	0.98	103
14	SCT	REAGENCY SYSTEMS CORP.	16 RUTHERFORD RD S FLOOR 2 BRAMPTON ON L6W 3J1	NNW/118.4	0.98	104
14	SCT	Thermo Electric (Canada) Ltd.	12 Rutherford Rd S Brampton ON L6W 3J2	NNW/118.4	0.98	104
14	GEN	THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	NNW/118.4	0.98	104
14	GEN	THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUNT BRAMPTON ON L6W 3J2	NNW/118.4	0.98	105

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	GEN	THERMO-ELECTRIC (CANADA) LIMITED 37-311	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	NNW/118.4	0.98	105
14	GEN	THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	NNW/118.4	0.98	105
14	GEN	Thermo Electric Canada Ltd.	12 Rutherford Road South Brampton ON L6W 3J2	NNW/118.4	0.98	106
15	SPL	CONTRACTOR	CREEK BEHIND 52 RUTHERFORD RD. SOUTH (N.O.S.) BRAMPTON CITY ON L6W 3J5	ESE/132.5	-1.86	106
15	PRT	CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	107
15	GEN	BRAMPTON, CORP. OF THE CITY OF	52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	107
15	GEN	BRAMPTON, CORPORATION OF THE CITY OF	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	107
15	GEN	BRAMPTON, CORP. OF THE CITY OF 04-371	52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	107
15	FSTH	CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	108
15	GEN	The Corporation of the City of Brampton	52 Rutherford Rd South Brampton ON L6W 3J5	ESE/132.5	-1.86	108
15	FSTH	CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	109
15	EHS		52 Rutherford Rd S Brampton ON	ESE/132.5	-1.86	109
15	FST	CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	109

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	FST	CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	ESE/132.5	-1.86	109
16	CA	PREMIER PETERBILT INC.	36 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	E/114.7	-0.95	110
16	EBR	Premier Peterbilt Inc.	36 Rutherford Road South CITY OF BRAMPTON ON	E/114.7	-0.95	110
16	EBR	Premier Peterbilt Inc.	36 Rutherford Road South Brampton Ontario L6W 3J5 Brampton ON	E/114.7	-0.95	110
16	EHS		36 Rutherford Rd S Brampton ON L6W3J5	E/114.7	-0.95	111
16	GEN	CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	E/114.7	-0.95	111
16	GEN	CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	E/114.7	-0.95	112
16	GEN	CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	E/114.7	-0.95	112
16	GEN	CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	E/114.7	-0.95	112
16	SPL	Contractors Rental Supply Inc.	36 Rutherford Road South Brampton ON	E/114.7	-0.95	113
16	GEN	Sunbelt Rentals of Canada Inc.	36 Rutherford Road Brampton ON L6W 3J5	E/114.7	-0.95	113
17	WWIS		ON ***Well ID:*** 7219489	E/127.1	-2.09	114

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18	EHS		35 Rutherford Road South Brampton ON L6W 3J4	SE/146.4	0.96	115
19	GEN	AP INFRASTRUCTURE SOLUTIONS LP.	35 Rutherford Rd South Brampton ON L6W 3J4	SSE/143.2	1.71	115
19	GEN	Pre-Con	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	SSE/143.2	1.71	116
20	HINC		10 RUTHEFORD ROAD SOUTH BRAMPTON ON	NNW/152.0	2.07	117
21	BORE		ON	SW/118.7	1.94	117
22	CA	1060644 ONTARIO INC.	12 CLARK BOULEVARD BRAMPTON CITY ON L6W 1X3	NE/139.2	1.06	118
22	EHS		12 Clark Boulevard Brampton ON L6W 1X3	NE/139.2	1.06	119
22	HINC		12 CLARK BOULEVARD BRAMPTON ON L6W 1X3	NE/139.2	1.06	119
22	SPL	Quality Collision Centre Inc.	12 Clark Blvd Brampton ON L6W 1X3	NE/139.2	1.06	119
23	EHS		12 Clark Boulevard Brampton ON L6W 1X3	NE/142.5	1.06	120
24	GEN	The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	NNW/160.0	1.86	120
24	GEN	The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	NNW/160.0	1.86	120
24	GEN	The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	NNW/160.0	1.86	120

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
25	WWIS		ON **Well ID:** 7269308	ENE/146.9	-0.03	121
26	BORE		ON	SSW/142.3	2.36	123
27	WWIS		Brampton ON **Well ID:** 7298267	W/141.9	2.00	125
28	PES	UNITED HARDWARE	QUEEN'S CENTRE 263 QUEEN STREET EAST BRAMPTON ON L6W 4K6	NW/188.3	2.00	127
28	SPL	SANDERSON LW RESOURCE AND RECO	263 QUEEN ST. EAST. BRAMPTON PLANT 150 ORENDA RD BRAMPTON CITY ON L6W 4K6	NW/188.3	2.00	127
28	INC		263 QUEEN STREET EAST, BRAMPTON ON	NW/188.3	2.00	127
28	GEN	Bayer Inc.	Queens Center Plaza 263 Queen Street East Brampton ON L6W 4K6	NW/188.3	2.00	128
29	EHS		30 Clark Blvd Brampton ON L6W 1X3	ENE/157.2	0.46	129
30	WWIS		Brampton ON **Well ID:** 7298265	WSW/140.7	2.00	129
31	GEN	The Corporation of The City of Brampton	8 Rutherford Road Brampton ON	NNW/178.2	2.29	131
32	GEN	ABLE TRUCK & CAR RENTALS	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	ENE/161.8	-0.04	131
32	GEN	ABLE TRUCK & CAR RENTALS	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	ENE/161.8	-0.04	131
32	GEN	ABLE TRUCK & CAR REN(OUT OF BUSINESS)	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	ENE/161.8	-0.04	132

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	EHS		19 Clark Blvd Brampton ON L6W1X4	ENE/161.8	-0.04	132
33	BORE		ON	S/178.6	3.02	132
34	GEN	The Corporation of The City of Brampton Buildings and property Management	8 Rutherford Road Brampton ON L6W 3J1	NNW/180.7	1.96	133
34	GEN	The Corporation of The City of Brampton Buildings and property Management	8 Rutherford Road Brampton ON L6W 3J1	NNW/180.7	1.96	134
35	WWIS		ON ***Well ID:*** 7269281	ENE/169.8	-0.22	134
36	WWIS		Brampton ON ***Well ID:*** 7197692	ESE/193.9	-2.05	137
37	WWIS		Brampton ON ***Well ID:*** 7197693	ESE/200.6	-1.62	139
38	WWIS		Brampton ON ***Well ID:*** 7269283	E/180.3	-1.04	142
39	WWIS		Brampton ON ***Well ID:*** 7298266	W/165.9	2.00	145
40	WWIS		ON ***Well ID:*** 7265896	NE/182.8	0.99	147
41	WWIS		ON ***Well ID:*** 7265897	NE/182.6	1.13	149
42	GEN	CITY OF BRAMPTON	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	E/195.2	-1.96	152

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	BORE		ON	SW/174.1	2.95	152
44	SCT	SIGNAGE SYSTEMS	21 CLARK BLVD BRAMPTON ON L6W 1X4	ENE/195.5	-0.39	154
44	SCT	Signage Systems - Div. of 865331 Ontario Limited	21 Clark Blvd Brampton ON L6W 1X4	ENE/195.5	-0.39	154
44	EBR	Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton Ontario L6W 1X4 Brampton ON	ENE/195.5	-0.39	154
44	GEN	SIGNAGE SYSTEMS, DIV. OF 865331 ONT LTD	21 CLARK BLVD. BRAMPTON ON L6W 1X4	ENE/195.5	-0.39	155
44	GEN	SIGNAGE SYSTEMS	21 CLARK BOULEVARD BRAMPTON ON L6W 1X4	ENE/195.5	-0.39	155
44	GEN	865331 ONTARIO LIMITED	21 CLARKE BLVD` BRAMPTON ON L6W 1X4	ENE/195.5	-0.39	155
44	CA	Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton ON L6W 1X4	ENE/195.5	-0.39	156
44	ECA	Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton ON L6W 1X4	ENE/195.5	-0.39	156
44	SPL	Alectra Utilities Corporation	21 Clark Blvd Brampton ON	ENE/195.5	-0.39	156
45	EHS		263 queen street Brampton ON L6W 3J3	WNW/233.6	3.00	157
46	WWIS		Brampton ON ***Well ID:*** 7269282	E/208.6	-2.07	157
47	WWIS		BRAMPTON ON ***Well ID:*** 7251166	E/219.1	-2.65	160

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48	WWIS		BRAMPTON ON ***Well ID:*** 7245993	W/200.6	2.34	162
49	GEN	CITY OF BRAMPTON	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	ESE/228.0	-2.04	165
50	EHS		30 Clark Boulevard Brampton ON	NE/220.8	2.05	165
51	GEN	SB Simpson Group Inc	16 Rutherford South Brampton ON L6W 3J1	N/222.4	0.92	165
51	GEN	SB Simpson Group Inc	16 Rutherford South Brampton ON L6W 3J1	N/222.4	0.92	166
52	WWIS		BRAMPTON ON ***Well ID:*** 7044752	ESE/253.9	-0.49	167
53	CA	MANUEL FILIPE, BRAMPTON AUTO CENTRE LTD.	6 RUTHERFORD ROAD SOUTH BRAMPTON CITY ON L6W 3J1	NNW/248.9	3.61	169
54	EHS		253 Queen Street East Brampton ON L6W 2B8	W/222.4	3.00	169
55	WWIS		BRAMPTON ON ***Well ID:*** 7245992	W/231.4	3.00	169
56	WWIS		lot 5 con 2 Brampton ON ***Well ID:*** 7141864	ENE/235.4	1.09	172
57	INC		261 QUEEN STREET EAST, BRAMPTON ON	NW/276.1	3.00	175
57	EHS		261 Queen Street East Brampton ON	NW/276.1	3.00	176
58	WWIS		Brampton ON ***Well ID:*** 7197691	ESE/260.6	-1.94	176

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
59	WWIS		Toronto ON **Well ID:** 7240333	NW/264.0	4.00	179
60	BORE		ON	SSW/242.2	4.00	182
61	WWIS		Toronto ON **Well ID:** 7240334	NW/265.3	4.00	183
62	WWIS		Brampton ON **Well ID:** 7113407	E/252.6	-2.08	186
63	SCT	V R FURNITURE INC	34 HANSEN RD S BRAMPTON ON L6W 3H4	SSW/250.9	4.00	190
63	SCT	V R Furniture Inc.	34 Hansen Rd S Brampton ON L6W 3H4	SSW/250.9	4.00	190
63	NPRI	Roberts Company Canada Ltd.	34 Hansen Road South Brampton ON L6W3H4	SSW/250.9	4.00	190
63	EHS		34 Hanson Road South Brampton ON	SSW/250.9	4.00	191
64	BORE		ON	SW/236.2	4.00	191
65	WWIS		Brampton ON **Well ID:** 7298268	W/249.2	3.00	192
66	WWIS		Brampton ON **Well ID:** 7197690	E/266.0	-3.06	194
67	GEN	Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	197
67	GEN	Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	197

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
67	GEN	Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	197
67	GEN	Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	198
67	GEN	Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	198
67	GEN	Bramvet Ltd	265 queen St East Brampton ON	NW/283.0	4.00	198
67	GEN	Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	198
67	GEN	Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	199
67	GEN	Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	199
67	GEN	Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	199
67	GEN	Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	NW/283.0	4.00	200
68	SPL	PRIVATE BUSINESS	255 QUEEN STREET EAST RESTAURANT BRAMPTON CITY ON L6W 2B8	W/270.7	3.00	200
68	SCT	Counterfitters of Ontario Inc.	255 Queen St E Unit 5 Brampton ON L6W 2B8	W/270.7	3.00	200
68	GEN	AMSCO CANADA LIMITED	255 QUEEN ST. E. BRAMPTON ON L6W 2B8	W/270.7	3.00	201
68	GEN	AMSCO CANADA LIMITED 01-203	255 QUEEN ST. E. BRAMPTON ON L6W 2B8	W/270.7	3.00	201

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
68	GEN	AMSCO CANADA LIMITED	255 QUEEN STREET EAST BRAMPTON ON L6W 2B8	W/270.7	3.00	202
69	WWIS		BRAMPTON ON ***Well ID:*** 7198826	NNW/273.8	3.08	202
70	WWIS		Brampton ON ***Well ID:*** 7298269	W/264.1	3.00	205
71	SCT	Peel Plastic Products Ltd.	49 Rutherford Rd S Brampton ON L6W 3J3	SE/294.7	2.22	207
71	SPL	PEEL PLASTICS LTD.	49 RUTHERFORD RD., SOUTH BRAMPTON PLANT 49 RUTHERFORD DR. BRAMPTON CITY ON	SE/294.7	2.22	208
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	SE/294.7	2.22	208
71	NPRI	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	SE/294.7	2.22	209
71	WDS	SAFETY-KLEEN (ON-SITE) INC.	49 RUTHERFORD RD.SOUTH, BRAMPT BRAMPTON, CITY ON	SE/294.7	2.22	211
71	GEN	WHEATON GLASS CO.	WHEATON IND. OF CANADA LTD. DIV OF 49 RUTHERFORD RD S BRAMPTON ON L6W 3J3	SE/294.7	2.22	211
71	GEN	WHEATON GLASS CO. 42-007	WHEATON IND. OF CANADA LTD. DIV OF 49 RUTHERFORD RD S BRAMPTON ON L6W 3J3	SE/294.7	2.22	212
71	GEN	WHEATON GLASS CCOMPANY, DIVISION OF	WHEATON INDUSTRIES OF CANADA LTD. 49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	212
71	GEN	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	212

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
71	GEN	PEEL PLASTIC PRODUCTS LTD. 30-306	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	213
71	GEN	PEEL PLASTIC PRODUCTS LTD. 30-306	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	213
71	GEN	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	213
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	214
71	NPRI	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	SE/294.7	2.22	214
71	NPRI	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	215
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	216
71	EHS		49 Rutherford Rd. S Brampton ON L6W 3J3	SE/294.7	2.22	219
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	219
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	220
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	224
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	225
71	CA	Peel Plastic Products Limited	Lots 11 and 4, Concession 2, 49 Rutherford Road	SE/294.7	2.22	226

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Brampton ON			
71	CA	Peel Plastic Products Limited	49 Rutherford Rd Brampton ON	SE/294.7	2.22	226
71	NPRI	PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	226
71	NPRI	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	227
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	228
71	NPRI	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	228
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	229
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	230
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	230
71	NPRI	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	231
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON	SE/294.7	2.22	232
71	NPRI	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	232
71	NPRI	Peel Plastic Products Ltd.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	233

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
71	ECA	Peel Plastic Products Limited	49 Rutherford Rd Lots 11 and 4, Concession 2 Brampton ON L6W 3J3	SE/294.7	2.22	234
71	ECA	Peel Plastic Products Limited	49 Rutherford Rd Lots 11 and 4, Concession 2 Brampton ON L6W 3J3	SE/294.7	2.22	234
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	234
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	235
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	235
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	236
71	NPRI	Peel Plastic Products Ltd.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	236
71	NPRI	PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	SE/294.7	2.22	237
71	GEN	PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	SE/294.7	2.22	238
72	SPL	RESTAURANT	269 QUEEN ST EAST. (N.O.S.) BRAMPTON CITY ON L6W 2C2	NNW/278.6	3.62	239
72	SPL	Flanagan Foodservice Inc.	269 Queen St. East Brampton ON	NNW/278.6	3.62	239
72	EHS		269 Queen Street East Brampton ON	NNW/278.6	3.62	240

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
72	GEN	2093893 ONTARIO INC	269 QUEEN STREET EAST BRAMPTON ON L6W 2C2	NNW/278.6	3.62	240
73	BORE		ON	SW/244.1	4.00	240
74	WWIS		ON ***Well ID:*** 4900522	N/268.0	1.15	241
75	WWIS		BRAMPTON ON ***Well ID:*** 4910296	W/269.2	3.00	244
75	WWIS		BRAMPTON ON ***Well ID:*** 7052993	W/269.2	3.00	246
76	EHS		265 Queen Street East Brampton ON	NW/295.1	4.00	248
77	WWIS		Brampton ON ***Well ID:*** 7298270	W/276.0	3.00	248
78	WWIS		Brampton ON ***Well ID:*** 7206002	NNW/285.4	3.79	250
79	WWIS		BRAMPTON ON ***Well ID:*** 4910041	W/274.9	3.00	253
80	WWIS		Brampton ON ***Well ID:*** 7298271	W/279.7	3.00	254
81	WWIS		ON ***Well ID:*** 7306247	W/277.6	3.00	256
82	WWIS		lot 5 con 2 Brampton ON ***Well ID:*** 7298263	W/279.8	3.00	257
82	WWIS		Brampton ON ***Well ID:*** 7298264	W/279.8	3.00	259

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
83	WWIS		ON ***Well ID:*** 4909989	NNW/295.8	4.00	261
84	BORE		ON	SW/266.1	4.00	264
85	SPL	FINAL RECYCLING	38 HANSEN RD. 38 HANSEN RD., BRAMPTON BRAMPTON CITY ON	S/296.7	5.00	265
85	SCT	FINOLL RECYCLING LTD.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	265
85	ORD	Finoll Recycling Limited	38 Hansen Road South CITY OF BRAMPTON ON	S/296.7	5.00	266
85	GEN	CUMMINGS SIGNS OF CANADA LIMITED	38 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	S/296.7	5.00	266
85	GEN	CUMMINGS SIGNS OF CANADA LIMITED 11-161	38 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	S/296.7	5.00	266
85	GEN	AADCO VEHICLE DISPOSAL SERVICES INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	267
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	267
85	AUWR	AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	267
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	268
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	268
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	268

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	269
85	AUWR	AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W3H4	S/296.7	5.00	269
85	AUWR	AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W3H4	S/296.7	5.00	269
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON	S/296.7	5.00	269
85	WDS	2157437 ONTARIO INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	270
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	271
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	271
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	271
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	272
85	GEN	2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	S/296.7	5.00	272
86	WWIS		BRAMPTON ON ***Well ID:*** 7251167	E/297.4	-3.23	272
87	SCT	123 Computer Warehouse Inc.	253 Queen St E Unit 2 Brampton ON L6W 2B8	W/284.7	3.00	276
87	SCT	Musclemag International	253 Queen St E Unit 23 Brampton ON L6W 2B8	W/284.7	3.00	276

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
87	GEN	SHELLER-GLOBE OF CANADA LTD.	253 QUEEN ST. E. BRAMPTON ON L6W 2B8	W/284.7	3.00	276
87	GEN	Sears Canada Inc.	253 Queen Street e Brampton ON L6W 2B8	W/284.7	3.00	276
87	EHS		253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	277
87	WWIS		lot 5 con 2 BRAMPTON ON ***Well ID:*** 4909757	W/284.7	3.00	277
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	280
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	280
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	281
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	281
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON	W/284.7	3.00	281
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	282
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	282
87	GEN	Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	282
87	GEN	253 Queen Street Inc.	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	282

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
87	GEN	253 Queen Street Inc.	253 Queen Street East Brampton ON L6W 2B8	W/284.7	3.00	283
88	GEN	MCLEAN'S RENTAL'S	279 QUEEN STREET EAST BRAMPTON ON L6W 2C2	N/299.2	1.87	283
88	GEN	MCLEAN'S EQUIPMENT RENTAL BRAMPTON INC.	279 QUEEN STREET EAST BRAMPTON ON L6W 2C2	N/299.2	1.87	283
88	GEN	MCLEAN'S EQUIPMENT RENTAL 26-359	(BRAMPTON) INC. 279 QUEEN ST. E. BRAMPTON ON L6W 2C2	N/299.2	1.87	284
88	GEN	McLean's Equipment Rental Brampton Inc.	279 Queen st. E Unit D&E Brampton ON L6W 2C2	N/299.2	1.87	284
89	BORE		ON	SSW/286.5	4.19	284
90	GEN	BRAMPTON AUTO SUPPLY	16 HANSON RD. BRAMPTON ON L6W 3H4	WSW/273.7	3.00	285
90	GEN	BRAMPTON AUTO (OUT OF BUSINESS) 06-314	16 HANSON RD. BRAMPTON ON L6W 3H4	WSW/273.7	3.00	286
90	SPL	Mini Van Super Store<UNOFFICIAL>	16 Hansen Rd CAR REPAIR SHOP BLDG<UNOFFICIAL> Brampton ON	WSW/273.7	3.00	286
91	SCT	Brampton Vee World Motors Ltd.	10 Hansen Rd S Brampton ON L6W 3H4	WSW/279.0	3.00	286
91	ECA	Brampton Vee World Motors Limited	6-10 Hansen Rd S Brampton ON L6W 3H4	WSW/279.0	3.00	287
92	GEN	AMERICAN AIR (OUT OF BUSINESS) 02-481	34 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	SSW/297.1	5.00	287
92	GEN	VR FURNITURE	34 HANSON RD. BRAMPTON ON L6W 3H4	SSW/297.1	5.00	287

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
92	GEN	Bramsen Holdings Inc	34 Hansen Road South Brampton ON	SSW/297.1	5.00	288
92	GEN	Freedom Group Inc	34 Hansen Road South Brampton ON	SSW/297.1	5.00	288
92	GEN	Freedom Group Inc	34 Hansen Road South Brampton ON	SSW/297.1	5.00	288
92	GEN	Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	SSW/297.1	5.00	288
92	GEN	Freedom Group Inc	34 Hansen Road South Brampton ON L6W 3H4	SSW/297.1	5.00	289
92	GEN	Freedom Group Inc	34 Hansen Road South Brampton ON L6W 3H4	SSW/297.1	5.00	289
92	GEN	Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	SSW/297.1	5.00	290
92	GEN	Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	SSW/297.1	5.00	290
93	WWIS		Brampton ON ***Well ID:*** 7122312	W/301.1	3.00	291
94	CA	Brampton Vee World Motors Limited	6-10 Hansen Rd S Brampton ON L6W 3H4	W/295.9	3.00	303
95	EHS		East of Chinguacousy Rd Brampton ON	SW/291.9	4.00	303

Executive Summary: Summary By Data Source

AUWR - Automobile Wrecking & Supplies

A search of the AUWR database, dated 1999-Jan 31, 2020 has found that there are 3 AUWR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W3H4	296.7	85
AADCO AUTO PARTS	38 HANSEN RD S BRAMPTON ON L6W3H4	296.7	85

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 9 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	118.7	21
	ON	142.3	26
	ON	178.6	33
	ON	174.1	43
	ON	242.2	60

Site	Address	Distance (m)	Map Key
	ON	236.2	64
	ON	244.1	73
	ON	266.1	84
	ON	286.5	89

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 10 CA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Signage & Lighting Systems Inc.	19 Rutherford Rd S Brampton ON L6W 3J3	41.3	4
Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	41.3	4
	35 Rutherford Rd. South Brampton ON L6W 3J4	131.4	12
PREMIER PETERBILT INC.	36 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	114.7	16
1060644 ONTARIO INC.	12 CLARK BOULEVARD BRAMPTON CITY ON L6W 1X3	139.2	22

Site	Address	Distance (m)	Map Key
Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton ON L6W 1X4	195.5	44
MANUEL FILIPE, BRAMPTON AUTO CENTRE LTD.	6 RUTHERFORD ROAD SOUTH BRAMPTON CITY ON L6W 3J1	248.9	53
Peel Plastic Products Limited	Lots 11 and 4, Concession 2, 49 Rutherford Road Brampton ON	294.7	71
Peel Plastic Products Limited	49 Rutherford Rd Brampton ON	294.7	71
Brampton Vee World Motors Limited	6-10 Hansen Rd S Brampton ON L6W 3H4	295.9	94

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Feb 29, 2020 has found that there are 1 EASR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CUSTOM AUTOBODY REPAIR AND REFINISHING INC	28 RUTHERFORD RD S BRAMPTON ON L6W 3J1	46.1	6

EBR - Environmental Registry

A search of the EBR database, dated 1994-Jan 31, 2020 has found that there are 6 EBR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Signage & Lighting Systems Inc.	19 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON ON	41.3	4
Armtec GP Inc. operating as Armtec LP	35 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON ON	131.4	12

Site	Address	Distance (m)	Map Key
Pre-Con Inc.	35 Rutherford Road South Brampton Ontario L6W 3J4 Brampton ON	131.4	12
Premier Peterbilt Inc.	36 Rutherford Road South Brampton Ontario L6W 3J5 Brampton ON	114.7	16
Premier Peterbilt Inc.	36 Rutherford Road South CITY OF BRAMPTON ON	114.7	16
Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton Ontario L6W 1X4 Brampton ON	195.5	44

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Feb 29, 2020 has found that there are 8 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Signage & Lighting Systems Inc.	19 Rutherford Rd S Brampton ON L6W 3J3	41.3	4
Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	41.3	4
The Regional Municipality of Peel	Clark Boulevard and Queen Street East Brampton ON L6T 4B9	17.7	5
The Corporation of the City of Brampton	Queen St E From Centre Street to Highway 410 Brampton ON L6Y 5T1	77.4	11
Golden Automobiles & Collision Centre Limited	21 Clark Boulevard Brampton ON L6W 1X4	195.5	44
Peel Plastic Products Limited	49 Rutherford Rd Lots 11 and 4, Concession 2 Brampton ON L6W 3J3	294.7	71

Site	Address	Distance (m)	Map Key
Peel Plastic Products Limited	49 Rutherford Rd Lots 11 and 4, Concession 2 Brampton ON L6W 3J3	294.7	71
Brampton Vee World Motors Limited	6-10 Hansen Rd S Brampton ON L6W 3H4	279.0	91

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2020 has found that there are 25 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	28 Rutherford Road South Brampton ON L6W 3J1	46.1	6
	32 Rutherford Road South Brampton ON L6W 3J1	61.5	7
	32 Rutherford Road South Brampton ON L6W 3J1	61.5	7
	Rutherford Road And Clark Brampton ON L6W3J1	67.6	8
	5 Rutherford Rd South Brampton ON L6W 3J3	118.1	9
	35 Rutherford Road South Brampton ON	131.4	12
	35 Rutherford Road Brampton ON L6W 3J4	131.4	12

Site	Address	Distance (m)	Map Key
	36 Rutherford Rd S Brampton ON L6W3J5	103.2	13
	52 Rutherford Rd S Brampton ON	132.5	15
	36 Rutherford Rd S Brampton ON L6W3J5	114.7	16
	35 Rutherford Road South Brampton ON L6W 3J4	146.4	18
	12 Clark Boulevard Brampton ON L6W 1X3	139.2	22
	12 Clark Boulevard Brampton ON L6W 1X3	142.5	23
	30 Clark Blvd Brampton ON L6W 1X3	157.2	29
	19 Clark Blvd Brampton ON L6W1X4	161.8	32
	263 queen street Brampton ON L6W 3J3	233.6	45
	30 Clark Boulevard Brampton ON	220.8	50
	253 Queen Street East Brampton ON L6W 2B8	222.4	54
	261 Queen Street East Brampton ON	276.1	57

Site	Address	Distance (m)	Map Key
	34 Hanson Road South Brampton ON	250.9	63
	49 Rutherford Rd. S Brampton ON L6W 3J3	294.7	71
	269 Queen Street East Brampton ON	278.6	72
	265 Queen Street East Brampton ON	295.1	76
	253 Queen Street East Brampton ON L6W 2B8	284.7	87
	East of Chinguacousy Rd Brampton ON	291.9	95

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Feb 28, 2017 has found that there are 3 EXP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BRAMPTON HOME HARDWARE	19 RUTHERFORD RD S Suite 3 BRAMPTON ON	41.3	4
PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD SHANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	131.4	12
PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD SHANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	131.4	12

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 2 FST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	132.5	15
CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	132.5	15

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 4 FSTH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	131.4	12
PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION	35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	131.4	12
CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	132.5	15
CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	132.5	15

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2020 has found that there are 146 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Kustom Airworks	25 Rutherford Road Brampton ON	0.0	1

Site	Address	Distance (m)	Map Key
CITY OF BRAMPTON	25 RUTHERFORD RD BRAMPTON ON	0.0	1
c-max paint	19 rutherford rd brampton ON L6W-3J3	32.0	3
Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	32.0	3
c-max	19 rutherford rd brampton ON	41.3	4
c-max	19 rutherford rd brampton ON	41.3	4
c-max	19 rutherford rd brampton ON	41.3	4
c-max	19 rutherford rd brampton ON	41.3	4
Rapri Truck Repair Centre	19 Rutherford Road Unit 3 Brampton ON	41.3	4
c-max	19 rutherford rd brampton ON	41.3	4
Rapri Truck Repair Centre	19 Rutherford Road Unit 3 Brampton ON	41.3	4
c-max	19 rutherford rd brampton ON	41.3	4

Site	Address	Distance (m)	Map Key
c-max	19 rutherford rd brampton ON L6W-3J3	41.3	4
Signage and Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	41.3	4
Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	41.3	4
c-max	19 rutherford rd brampton ON L6W-3J3	41.3	4
c-max	19 rutherford rd brampton ON L6W-3J3	41.3	4
Signage and Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	41.3	4
c-max paint	19 rutherford rd brampton ON L6W-3J3	41.3	4
Signage & Lighting Systems Inc	19 Rutherford Road South unit 3 Brampton ON L6W 3H3	41.3	4
ICI PAINTS (CANADA) INC.	24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	97.2	10
ICI PAINTS (CANADA) INC	24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	97.2	10
ICI Canada Inc.	24A Rutherford Road Brampton ON L6W 3J1	97.2	10
Akzo Nobel Paints LLC	24A Rutherford Road Brampton ON	97.2	10

Site	Address	Distance (m)	Map Key
Akzo Nobel Paints LLC	24A Rutherford Road Brampton ON	97.2	10
PRE-CON COMPANY	35 RUTHERFORD RD. SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON COMPANY	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON COMPANY 31-282	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
Armtec Ltd.	35 Rutherford Rd. S Brampton ON L6W 3J4	131.4	12
Armtec Ltd.	35 Rutherford Rd. S Brampton ON L6W 3J4	131.4	12

Site	Address	Distance (m)	Map Key
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
Armtec LP	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	131.4	12
THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	118.4	14
THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUNT BRAMPTON ON L6W 3J2	118.4	14
THERMO-ELECTRIC (CANADA) LIMITED 37-311	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	118.4	14
THERMO-ELECTRIC (CANADA) LIMITED	12 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J2	118.4	14
Thermo Electric Canada Ltd.	12 Rutherford Road South Brampton ON L6W 3J2	118.4	14
BRAMPTON, CORP. OF THE CITY OF	52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	132.5	15
BRAMPTON, CORPORATION OF THE CITY OF	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	132.5	15
BRAMPTON, CORP. OF THE CITY OF 04-371	52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	132.5	15
The Corporation of the City of Brampton	52 Rutherford Rd South Brampton ON L6W 3J5	132.5	15

Site	Address	Distance (m)	Map Key
CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	114.7	16
CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	114.7	16
CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	114.7	16
CRS Contractors Rental Supply	36 Rutherford Road Brampton ON L6W 3J5	114.7	16
Sunbelt Rentals of Canada Inc.	36 Rutherford Road Brampton ON L6W 3J5	114.7	16
AP INFRASTRUCTURE SOLUTIONS LP.	35 Rutherford Rd South Brampton ON L6W 3J4	143.2	19
Pre-Con	35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	143.2	19
The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	160.0	24
The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	160.0	24
The Corporation of The City of Brampton	8 Rutherford Road Brampton ON L6W 3J1	160.0	24
Bayer Inc.	Queens Center Plaza 263 Queen Street East Brampton ON L6W 4K6	188.3	28

Site	Address	Distance (m)	Map Key
The Corporation of The City of Brampton	8 Rutherford Road Brampton ON	178.2	31
ABLE TRUCK & CAR RENTALS	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	161.8	32
ABLE TRUCK & CAR RENTALS	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	161.8	32
ABLE TRUCK & CAR REN(OUT OF BUSINESS)	19 CLARK BOULEVARD BRAMPTON ON L6W 1X4	161.8	32
The Corporation of The City of Brampton Buildings and property Management	8 Rutherford Road Brampton ON L6W 3J1	180.7	34
The Corporation of The City of Brampton Buildings and property Management	8 Rutherford Road Brampton ON L6W 3J1	180.7	34
CITY OF BRAMPTON	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	195.2	42
SIGNAGE SYSTEMS, DIV. OF 865331 ONT LTD	21 CLARK BLVD. BRAMPTON ON L6W 1X4	195.5	44
SIGNAGE SYSTEMS	21 CLARK BOULEVARD BRAMPTON ON L6W 1X4	195.5	44
865331 ONTARIO LIMITED	21 CLARKE BLVD` BRAMPTON ON L6W 1X4	195.5	44
CITY OF BRAMPTON	52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	228.0	49

Site	Address	Distance (m)	Map Key
SB Simpson Group Inc	16 Rutherford South Brampton ON L6W 3J1	222.4	51
SB Simpson Group Inc	16 Rutherford South Brampton ON L6W 3J1	222.4	51
Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	283.0	67
Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	283.0	67
Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	283.0	67
Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	283.0	67
Bramvet Ltd	265 queen St East Brampton ON L6W 2C2	283.0	67
Bramvet Ltd	265 queen St East Brampton ON	283.0	67
Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	283.0	67
Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	283.0	67
Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	283.0	67
Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	283.0	67

Site	Address	Distance (m)	Map Key
Brampton Veterinary Hospital Professional Corp	265 queen St East Brampton ON L6W 2C2	283.0	67
AMSCO CANADA LIMITED	255 QUEEN ST. E. BRAMPTON ON L6W 2B8	270.7	68
AMSCO CANADA LIMITED 01-203	255 QUEEN ST. E. BRAMPTON ON L6W 2B8	270.7	68
AMSCO CANADA LIMITED	255 QUEEN STREET EAST BRAMPTON ON L6W 2B8	270.7	68
WHEATON GLASS CO. 42-007	WHEATON IND. OF CANADA LTD. DIV OF 49 RUTHERFORD RD S BRAMPTON ON L6W 3J3	294.7	71
WHEATON GLASS CCOMPANY, DIVISION OF	WHEATON INDUSTRIES OF CANADA LTD. 49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD. 30-306	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD. 30-306	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71

Site	Address	Distance (m)	Map Key
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	294.7	71
WHEATON GLASS CO.	WHEATON IND. OF CANADA LTD. DIV OF 49 RUTHERFORD RD S BRAMPTON ON L6W 3J3	294.7	71
2093893 ONTARIO INC	269 QUEEN STREET EAST BRAMPTON ON L6W 2C2	278.6	72

Site	Address	Distance (m)	Map Key
CUMMINGS SIGNS OF CANADA LIMITED	38 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	296.7	85
CUMMINGS SIGNS OF CANADA LIMITED 11-161	38 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	296.7	85
AADCO VEHICLE DISPOSAL SERVICES INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85

Site	Address	Distance (m)	Map Key
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
2157437 ONT INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
SHELLER-GLOBE OF CANADA LTD.	253 QUEEN ST. E. BRAMPTON ON L6W 2B8	284.7	87
Sears Canada Inc.	253 Queen Street e Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87

Site	Address	Distance (m)	Map Key
Homedale-Eagle Corporation	253 Queen Street East Brampton ON L6W 2B8	284.7	87
253 Queen Street Inc.	253 Queen Street East Brampton ON L6W 2B8	284.7	87
253 Queen Street Inc.	253 Queen Street East Brampton ON L6W 2B8	284.7	87
MCLEAN'S RENTAL'S	279 QUEEN STREET EAST BRAMPTON ON L6W 2C2	299.2	88
MCLEAN'S EQUIPMENT RENTA L BRAMPTON INC.	279 QUEEN STREET EAST BRAMPTON ON L6W 2C2	299.2	88
MCLEAN'S EQUIPMENT RENTAL 26-359	(BRAMPTON) INC. 279 QUEEN ST. E. BRAMPTON ON L6W 2C2	299.2	88
McLean's Equipment Rental Brampton Inc.	279 Queen st. E Unit D&E Brampton ON L6W 2C2	299.2	88
BRAMPTON AUTO SUPPLY	16 HANSON RD. BRAMPTON ON L6W 3H4	273.7	90
BRAMPTON AUTO (OUT OF BUSINESS) 06-314	16 HANSON RD. BRAMPTON ON L6W 3H4	273.7	90
AMERICAN AIR (OUT OF BUSINESS) 02-481	34 HANSEN ROAD SOUTH BRAMPTON ON L6W 3H4	297.1	92
VR FURNITURE	34 HANSON RD. BRAMPTON ON L6W 3H4	297.1	92

Site	Address	Distance (m)	Map Key
Bramsen Holdings Inc	34 Hansen Road South Brampton ON	297.1	92
Freedom Group Inc	34 Hansen Road South Brampton ON	297.1	92
Freedom Group Inc	34 Hansen Road South Brampton ON	297.1	92
Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	297.1	92
Freedom Group Inc	34 Hansen Road South Brampton ON L6W 3H4	297.1	92
Freedom Group Inc	34 Hansen Road South Brampton ON L6W 3H4	297.1	92
Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	297.1	92
Roberts Company Canada Limited	34 Hansen Rd. S. Brampton ON L6W 3H4	297.1	92

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	10 RUTHEFORD ROAD SOUTH BRAMPTON ON	152.0	20
	12 CLARK BOULEVARD BRAMPTON ON L6W 1X3	139.2	22

Site	Address	Distance (m)	Map Key

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated Feb 28, 2017 has found that there are 2 INC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	263 QUEEN STREET EAST, BRAMPTON ON	188.3	28
	261 QUEEN STREET EAST, BRAMPTON ON	276.1	57

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 23 NPRI site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PRE-CON INC.	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	131.4	12
PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	131.4	12
PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	131.4	12
PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	131.4	12
ARMTEC LIMITED PARTNERSHIP	35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4	131.4	12
Roberts Company Canada Ltd.	34 Hansen Road South Brampton ON L6W3H4	250.9	63

Site	Address	Distance (m)	Map Key
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71

Site	Address	Distance (m)	Map Key
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
Peel Plastic Products Ltd.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
Peel Plastic Products Ltd.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD.	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71
PEEL PLASTIC PRODUCTS LTD	49 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W 3J3	294.7	71
PEEL PLASTIC PRODUCTS LIMITED	49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	294.7	71

ORD - Orders

A search of the ORD database, dated 1994-Jan 31, 2020 has found that there are 1 ORD site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Finoll Recycling Limited	38 Hansen Road South CITY OF BRAMPTON ON	296.7	85

PES - Pesticide Register

A search of the PES database, dated 1988-Feb 2020 has found that there are 5 PES site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	41.3	4

Site	Address	Distance (m)	Map Key
BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	41.3	4
BRAMPTON LUMBER HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	41.3	4
1238473 ONTARIO LTD. \BRAMPTON HOME HARDWARE	19 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W3J3	41.3	4
UNITED HARDWARE	QUEEN'S CENTRE 263 QUEEN STREET EAST BRAMPTON ON L6W 4K6	188.3	28

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF	35 RUTHERFORD RD HANSEN RD ENTRANCE BRAMPTON ON	131.4	12
CITY OF BRAMPTON	52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	132.5	15

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 22 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Fantastic Sleep Shop Ltd.	25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	0.0	1
Classic Bedding Ltd.	25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	0.0	1

Site	Address	Distance (m)	Map Key
BREW-BY-U	25 RUTHERFORD RD S UNIT 4 BRAMPTON ON L6W 3J3	0.0	1
Signage & Lighting Systems	19 Rutherford Rd S Brampton ON L6W 3J3	41.3	4
Aggregation Contract Furniture Inc. - Div. of Knecht & Berchtold Inc.	32 Rutherford Rd S Brampton ON L6W 3J1	61.5	7
AGGREGATION CONTRACT FURNITURE	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	61.5	7
KNECHT & BERCHTOLD INC.	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	61.5	7
AGGREGATION CONTRACT FURNITURE	32 RUTHERFORD RD S BRAMPTON ON L6W 3J1	61.5	7
Armtec/Pre-Con	35 Rutherford Rd S Brampton ON L6W 3J4	131.4	12
Thermo Electric (Canada) Ltd.	12 Rutherford Rd S Brampton ON L6W 3J2	118.4	14
REAGENCY SYSTEMS CORP.	16 RUTHERFORD RD S FLOOR 2 BRAMPTON ON L6W 3J1	118.4	14
THERMO ELECTRIC CANADA LTD	12 RUTHERFORD RD S BRAMPTON ON L6W 3J2	118.4	14
Signage Systems - Div. of 865331 Ontario Limited	21 Clark Blvd Brampton ON L6W 1X4	195.5	44
SIGNAGE SYSTEMS	21 CLARK BLVD BRAMPTON ON L6W 1X4	195.5	44

Site	Address	Distance (m)	Map Key
V R Furniture Inc.	34 Hansen Rd S Brampton ON L6W 3H4	250.9	63
V R FURNITURE INC	34 HANSEN RD S BRAMPTON ON L6W 3H4	250.9	63
Counterfitters of Ontario Inc.	255 Queen St E Unit 5 Brampton ON L6W 2B8	270.7	68
Peel Plastic Products Ltd.	49 Rutherford Rd S Brampton ON L6W 3J3	294.7	71
FINOLL RECYCLING LTD.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85
123 Computer Warehouse Inc.	253 Queen St E Unit 2 Brampton ON L6W 2B8	284.7	87
Musclemag International	253 Queen St E Unit 23 Brampton ON L6W 2B8	284.7	87
Brampton Vee World Motors Ltd.	10 Hansen Rd S Brampton ON L6W 3H4	279.0	91

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2019 has found that there are 16 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Access Waste Management Inc.	19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	41.3	4

Site	Address	Distance (m)	Map Key
Pre-Con Inc.	35 Rutherford Rd S Brampton ON L6W 3J4	131.4	12
L.M. Generating Power <UNOFFICIAL>	35 Rutherford Rd South Brampton ON	131.4	12
Cooney Bulk Sales Limited	35 Rutherford Road South Brampton ON	131.4	12
PRE-CON COMPANY	ETOBICOKE CREEK BRAMPTON PLANT 35 RUTHERFORD ROAD SOUTH BRAMPTON CITY ON	131.4	12
CONTRACTOR	CREEK BEHIND 52 RUTHERFORD RD. SOUTH (N.O.S.) BRAMPTON CITY ON L6W 3J5	132.5	15
Contractors Rental Supply Inc.	36 Rutherford Road South Brampton ON	114.7	16
Quality Collision Centre Inc.	12 Clark Blvd Brampton ON L6W 1X3	139.2	22
SANDERSON LW RESOURCE AND RECO	263 QUEEN ST. EAST. BRAMPTON PLANT 150 ORENDA RD BRAMPTON CITY ON L6W 4K6	188.3	28
Alectra Utilities Corporation	21 Clark Blvd Brampton ON	195.5	44
PRIVATE BUSINESS	255 QUEEN STREET EAST RESTAURANT BRAMPTON CITY ON L6W 2B8	270.7	68
PEEL PLASTICS LTD.	49 RUTHERFORD RD., SOUTH BRAMPTON PLANT 49 RUTHERFORD DR. BRAMPTON CITY ON	294.7	71
RESTAURANT	269 QUEEN ST EAST. (N.O.S.) BRAMPTON CITY ON L6W 2C2	278.6	72

Site	Address	Distance (m)	Map Key
Flanagan Foodservice Inc.	269 Queen St. East Brampton ON	278.6	72
FINAL RECYCLING	38 HANSEN RD. 38 HANSEN RD., BRAMPTON BRAMPTON CITY ON	296.7	85
Mini Van Super Store<UNOFFICIAL>	16 Hansen Rd CAR REPAIR SHOP BLDG<UNOFFICIAL> Brampton ON	273.7	90

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011-Feb 29, 2020 has found that there are 2 WDS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SAFETY-KLEEN (ON-SITE) INC.	49 RUTHERFORD RD.SOUTH, BRAMPT BRAMPTON, CITY ON	294.7	71
2157437 ONTARIO INC.	38 HANSEN RD S BRAMPTON ON L6W 3H4	296.7	85

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 40 WWIS site(s) within approximately 0.30 kilometers of the project property.

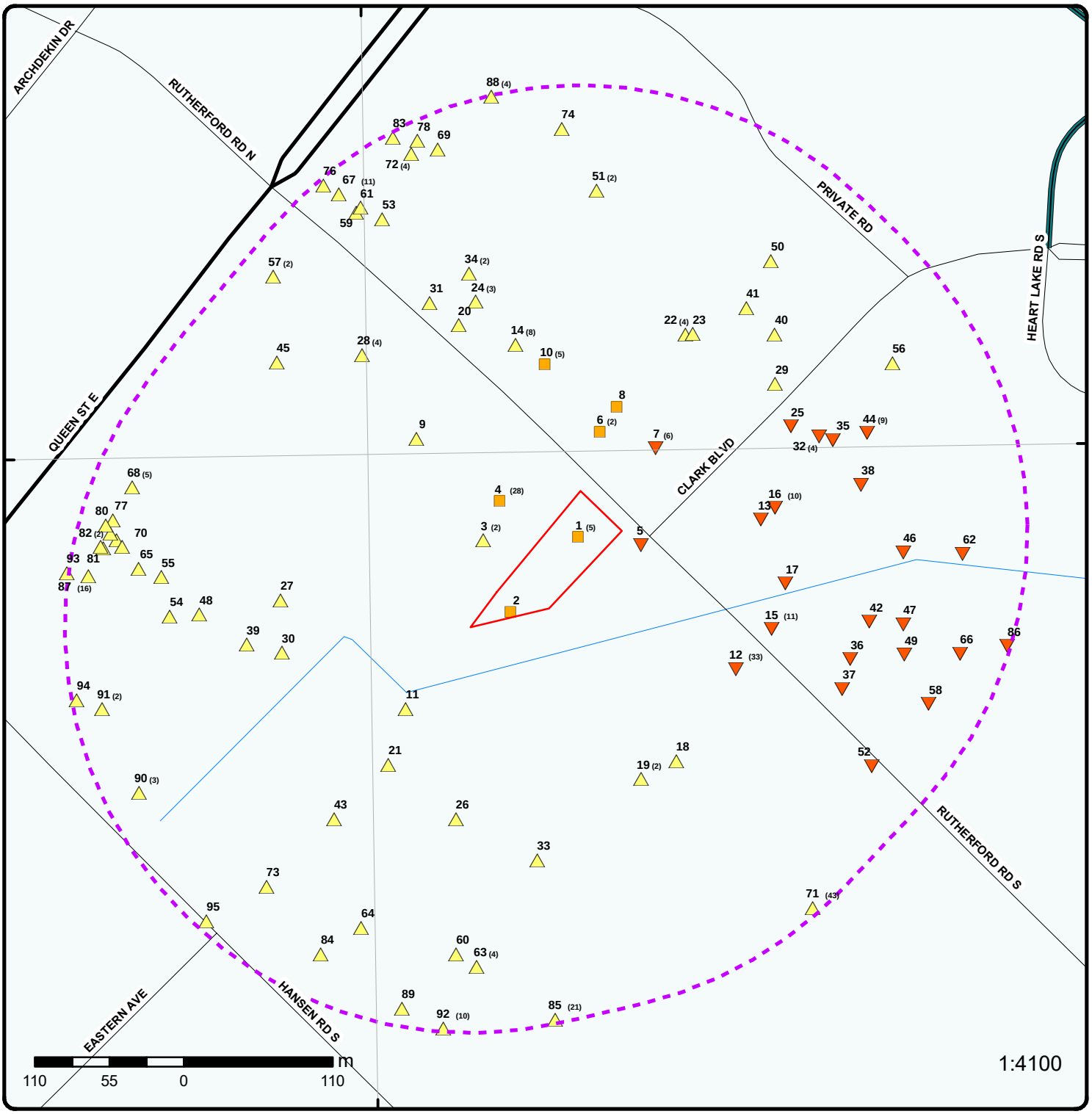
Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7310216	0.0	2
	ON ***Well ID:*** 7219489	127.1	17
	ON	146.9	25

Site	Address	Distance (m)	Map Key
	Well ID: 7269308		
	Brampton ON ***Well ID:*** 7298267	141.9	27
	Brampton ON ***Well ID:*** 7298265	140.7	30
	ON ***Well ID:*** 7269281	169.8	35
	Brampton ON ***Well ID:*** 7197692	193.9	36
	Brampton ON ***Well ID:*** 7197693	200.6	37
	Brampton ON ***Well ID:*** 7269283	180.3	38
	Brampton ON ***Well ID:*** 7298266	165.9	39
	ON ***Well ID:*** 7265896	182.8	40
	ON ***Well ID:*** 7265897	182.6	41
	Brampton ON ***Well ID:*** 7269282	208.6	46
	BRAMPTON ON ***Well ID:*** 7251166	219.1	47

Site	Address	Distance (m)	Map Key
	BRAMPTON ON ***Well ID:*** 7245993	200.6	48
	BRAMPTON ON ***Well ID:*** 7044752	253.9	52
	BRAMPTON ON ***Well ID:*** 7245992	231.4	55
	lot 5 con 2 Brampton ON ***Well ID:*** 7141864	235.4	56
	Brampton ON ***Well ID:*** 7197691	260.6	58
	Toronto ON ***Well ID:*** 7240333	264.0	59
	Toronto ON ***Well ID:*** 7240334	265.3	61
	Brampton ON ***Well ID:*** 7113407	252.6	62
	Brampton ON ***Well ID:*** 7298268	249.2	65
	Brampton ON ***Well ID:*** 7197690	266.0	66
	BRAMPTON ON ***Well ID:*** 7198826	273.8	69
	Brampton ON	264.1	70

Site	Address	Distance (m)	Map Key
	Well ID: 7298269		
	ON ***Well ID:*** 4900522	268.0	74
	BRAMPTON ON ***Well ID:*** 7052993	269.2	75
	BRAMPTON ON ***Well ID:*** 4910296	269.2	75
	Brampton ON ***Well ID:*** 7298270	276.0	77
	Brampton ON ***Well ID:*** 7206002	285.4	78
	BRAMPTON ON ***Well ID:*** 4910041	274.9	79
	Brampton ON ***Well ID:*** 7298271	279.7	80
	ON ***Well ID:*** 7306247	277.6	81
	lot 5 con 2 Brampton ON ***Well ID:*** 7298263	279.8	82
	Brampton ON ***Well ID:*** 7298264	279.8	82
	ON ***Well ID:*** 4909989	295.8	83

Site	Address	Distance (m)	Map Key
	BRAMPTON ON ***Well ID:*** 7251167	297.4	86
	lot 5 con 2 BRAMPTON ON ***Well ID:*** 4909757	284.7	87
	Brampton ON ***Well ID:*** 7122312	301.1	93



Map : 0.3 Kilometer Radius

Order Number: 20200313290

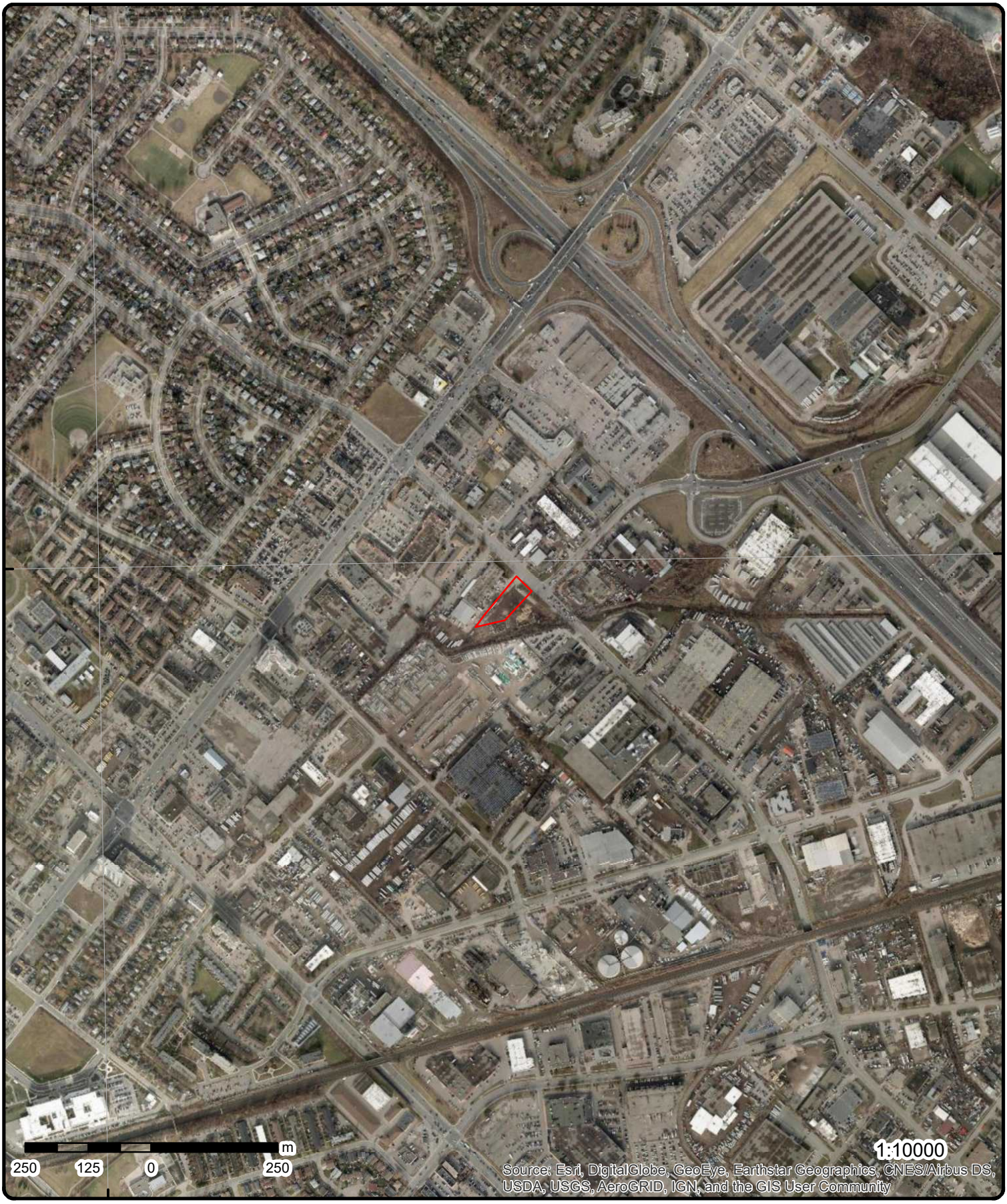
Address: 25 Rutherford Road South, Brampton, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road
- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line
- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

79°45'W

43°42'N



43°42'N

Aerial

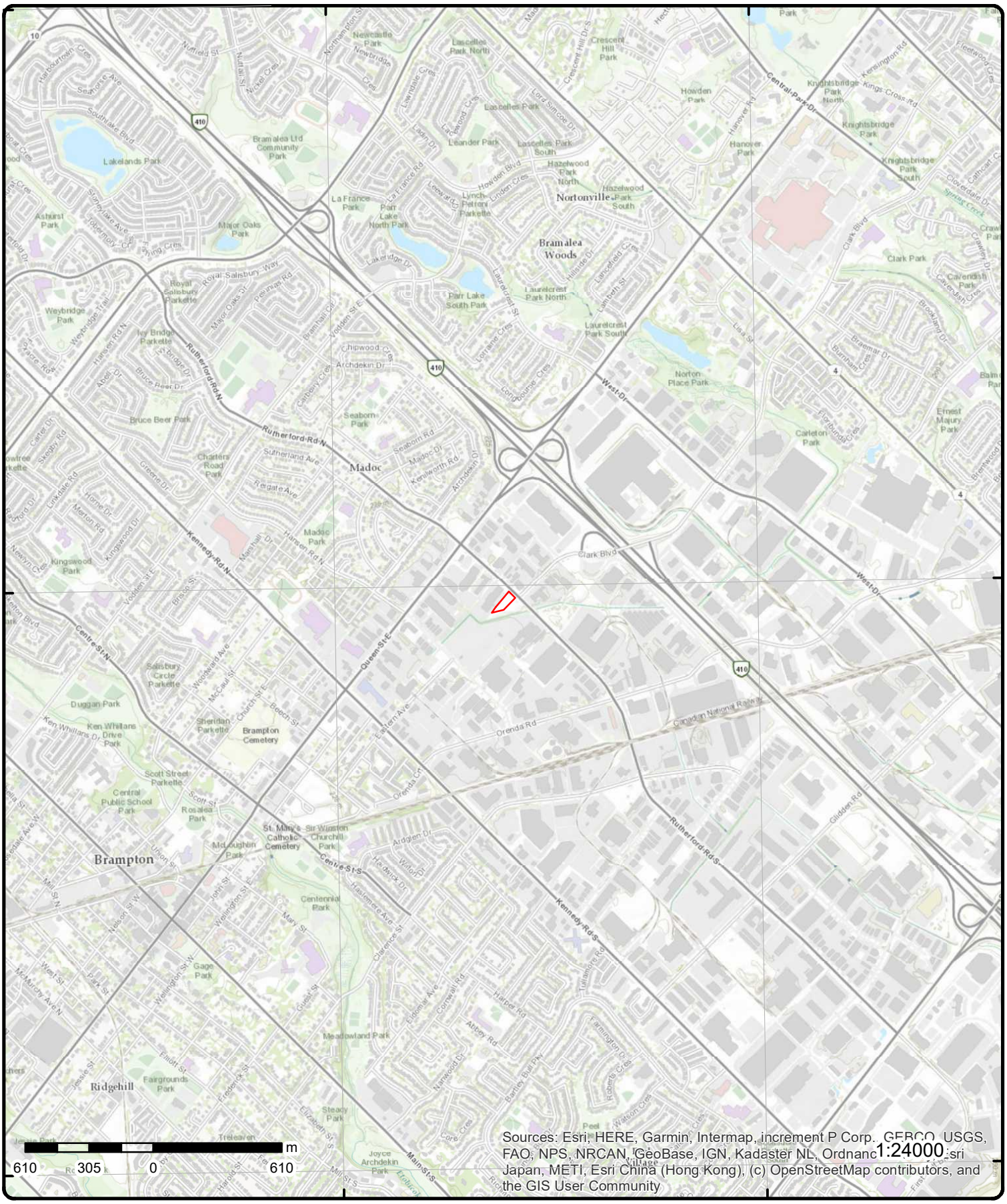
Year: 2018

Address: 25 Rutherford Road South, Brampton, ON

Source: ESRI World Imagery

Order Number: 20200313290

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 25 Rutherford Road South, ON

Source: ESRI World Topographic Map

Order Number: 20200313290

ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 5	NE/0.0	214.8 / 0.00	Classic Bedding Ltd. 25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	SCT

Established: 01-AUG-88
Plant Size (ft²): 4800
Employment:

--Details--
Description: Mattress Manufacturing
SIC/NAICS Code: 337910

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 5	NE/0.0	214.8 / 0.00	BREW-BY-U 25 RUTHERFORD RD S UNIT 4 BRAMPTON ON L6W 3J3	SCT

Established: 1993
Plant Size (ft²): 0
Employment: 4

--Details--
Description: MALT BEVERAGES
SIC/NAICS Code: 2082

Description: WINES, BRANDY, AND BRANDY SPIRITS
SIC/NAICS Code: 2084

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 5	NE/0.0	214.8 / 0.00	Fantastic Sleep Shop Ltd. 25 Rutherford Rd S Unit 2 Brampton ON L6W 3J3	SCT

Established: 1988
Plant Size (ft²):
Employment:

--Details--
Description: Mattress Manufacturing
SIC/NAICS Code: 337910

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 5	NE/0.0	214.8 / 0.00	Kustom Airworks 25 Rutherford Road Brampton ON	GEN

Generator No: ON5527893
Status:
Approval Years: 06
Contam. Facility:
MHSW Facility:
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code: 453920
SIC Description: Art Dealers

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

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1 | **5 of 5** | **NE/0.0** | **214.8 / 0.00** | **CITY OF BRAMPTON**
25 RUTHERFORD RD
BRAMPTON ON | **GEN**

Generator No: ON5225275
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

2 | **1 of 1** | **SW/0.0** | **214.8 / 0.00** | **ON** | **WWIS**

Well ID: 7310216
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: C42039
Tag: A244294
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status: Yes
Data Src:
Date Received: 4/12/2018
Selected Flag: Yes
Abandonment Rec:
Contractor: 7215
Form Version: 8
Owner:
Street Name:
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1007034613
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 3/28/2018
Remarks:

Elevation:
Elevrc:
Zone: 17
East83: 601495
North83: 4839206
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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3 **1 of 2** **WNW/32.0** **215.7 / 0.83** **c-max paint**
19 rutherford rd
brampton ON L6W-3J3 **GEN**

Generator No: ON8257318
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211 B
Waste Class Desc: Aromatic solvents and residues

---

3 **2 of 2** **WNW/32.0** **215.7 / 0.83** **Signage & Lighting Systems Inc**
19 Rutherford Road South unit 3
Brampton ON L6W 3H3 **GEN**

Generator No: ON8811685
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211 H
Waste Class Desc: Aromatic solvents and residues

Waste Class: 145 H
Waste Class Desc: Wastes from the use of pigments, coatings and paints

---

4 **1 of 28** **NW/41.3** **214.8 / 0.00** **BRAMPTON LUMBER HOME HARDWARE**
19 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

District:
County:
Trade Name:
PDF Link:

MOE District:
SWP Area Name:

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4 **2 of 28** **NW/41.3** **214.8 / 0.00** **BRAMPTON LUMBER HOME HARDWARE** **PES**
19 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W3J3

Detail Licence No:	23-01-09447-0	**Operator Box:**	
Licence No:	09447	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	416
Licence Type:	Limited Vendor	**Oper Phone No:**	4555755
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:	0	**Oper Concession:**	
Latitude:		**Operator Region:**	3
Longitude:		**Operator District:**	1
Lot:		**Operator County:**	49
Concession:		**Op Municipality:**	
Region:	3	**Post Office Box:**	
District:	1	**MOE District:**	
County:	49	**SWP Area Name:**	
Trade Name:			
PDF Link:			

---

4 **3 of 28** **NW/41.3** **214.8 / 0.00** **Signage & Lighting Systems** **SCT**
19 Rutherford Rd S
Brampton ON L6W 3J3

Established: 01-JUL-03
Plant Size (ft²): 15000
Employment:

--Details--
Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Sign Manufacturing
SIC/NAICS Code: 339950

Description: Sign Manufacturing
SIC/NAICS Code: 339950

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4 **4 of 28** **NW/41.3** **214.8 / 0.00** **Signage & Lighting Systems Inc.** **EBR**
19 Rutherford Road South Brampton Regional
Municipality of Peel CITY OF BRAMPTON
ON

EBR Registry No:	010-1379	**Decision Posted:**	
Ministry Ref No:	6407-75LVC2	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:	803007565	**Act 1:**	
Notice Date:	April 30, 2008	**Act 2:**	
Proposal Date:	August 15, 2007	**Site Location Map:**	

Year:	2007
Instrument Type:	(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:	
Posted By:	
Company Name:	Signage & Lighting Systems Inc.
Site Address:	
Location Other:	
Proponent Name:	
Proponent Address:	19 Rutherford Road South , Unit 3, Brampton Ontario, Canada L6W 3J3
Comment Period:	
URL:	

Site Location Details:

19 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	5 of 28	NW/41.3	214.8 / 0.00	c-max 19 rutherford rd brampton ON	GEN

Generator No:	ON8257318	**PO Box No:**	
Status:		**Country:**	
Approval Years:	06	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	415110		
SIC Description:	New and Used Automobile and Light-Duty Truck Whole		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	6 of 28	NW/41.3	214.8 / 0.00	Signage & Lighting Systems Inc. 19 Rutherford Rd S Brampton ON L6W 3J3	CA

Certificate #:	5918-7DPKMG
Application Year:	2008
Issue Date:	4/18/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	7 of 28	NW/41.3	214.8 / 0.00	Access Waste Management Inc. 19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	CA

Certificate #:	9829-7W5M8L
Application Year:	2009

Issue Date: 10/2/2009
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	8 of 28	NW/41.3	214.8 / 0.00	BRAMPTON HOME HARDWARE 19 RUTHERFORD RD S Suite 3 BRAMPTON ON	EXP

Instance No: 10222100
Instance ID: 13857
Instance Type: FS Facility
Description: FS Cylinder Exchange
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	9 of 28	NW/41.3	214.8 / 0.00	c-max 19 rutherford rd brampton ON	GEN

Generator No: ON8257318
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 415110
SIC Description: New and Used Automobile and Light-Duty Truck Wholesaler-Distributors

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	10 of 28	NW/41.3	214.8 / 0.00	Access Waste Management Inc. 19 Rutherford Rd S Unit 3 Brampton ON L6W 3J3	SPL

Ref No: 2853-8QZLBC
Site No:
Incident Dt: 30-JAN-12
Year:
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Transport Truck
Agency Involved:
Nearest Watercourse:
Site Address: 19 Rutherford Rd S Unit 3
Site District Office:
Site Postal Code:
Site Region:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Environment Impact:	Confirmed	**Site Municipality:**	Brampton
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:		**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	30-JAN-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Vandalism - Illegal/deliberate (incl. sabotage)	**Source Type:**	
Site Name:	19 Rutherford Road South Unit 3		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Access Waste: 1000L Diesel to CB, Vandalism, Cln		
Contaminant Qty:			

4	11 of 28	NW/41.3	214.8 / 0.00	c-max 19 rutherford rd brampton ON	GEN

Generator No:	ON8257318	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	415110		
SIC Description:	New and Used Automobile and Light-Duty Truck Wholesaler-Distributors		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS

4	12 of 28	NW/41.3	214.8 / 0.00	c-max 19 rutherford rd brampton ON	GEN

Generator No:	ON8257318	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2011	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	415110		
SIC Description:	New and Used Automobile and Light-Duty Truck Wholesaler-Distributors		

Detail(s)

Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

4	13 of 28	NW/41.3	214.8 / 0.00	Rapri Truck Repair Centre 19 Rutherford Road Unit 3 Brampton ON	GEN

Generator No:	ON3938960	**PO Box No:**	
Status:		**Country:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 811111
SIC Description:
Choice of Contact:
Co Admin:
Phone No Admin:

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4 **14 of 28** **NW/41.3** **214.8 / 0.00**

c-max
19 rutherford rd
brampton ON

GEN

Generator No: ON8257318
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 415110
SIC Description: New and Used Automobile and Light-Duty Truck Wholesaler-Distributors
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

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4 **15 of 28** **NW/41.3** **214.8 / 0.00**

Rapri Truck Repair Centre
19 Rutherford Road Unit 3
Brampton ON

GEN

Generator No: ON3938960
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 811111
SIC Description: General Automotive Repair
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

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4 **16 of 28** **NW/41.3** **214.8 / 0.00**

c-max
19 rutherford rd
brampton ON

GEN

Generator No: ON8257318
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 415110
SIC Description: NEW AND USED AUTOMOBILE AND LIGHT-DUTY TRUCK WHOLESALER-DISTRIBUTORS
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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4 **17 of 28** **NW/41.3** **214.8 / 0.00**

Signage & Lighting Systems Inc.
19 Rutherford Rd S
Brampton ON L6W 3J3

ECA

Approval No:	5918-7DPKMG	**MOE District:**	Halton-Peel
Approval Date:	2008-04-18	**City:**	
Status:	Approved	**Longitude:**	-79.740944
Record Type:	ECA	**Latitude:**	43.69938
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Toronto	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Address:	19 Rutherford Rd S		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6407-75LVC2-13.pdf		

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4 | ***18 of 28*** | ***NW/41.3*** | ***214.8 / 0.00*** | ***Access Waste Management Inc.***
19 Rutherford Rd S Unit 3
Brampton ON L6W 3J3 | ***ECA***

Approval No:	9829-7W5M8L	**MOE District:**	Halton-Peel
Approval Date:	2009-10-02	**City:**	
Status:	Approved	**Longitude:**	-79.740944
Record Type:	ECA	**Latitude:**	43.69938
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Toronto	**Geometry Y:**	
Approval Type:	ECA-WASTE MANAGEMENT SYSTEMS		
Project Type:	WASTE MANAGEMENT SYSTEMS		
Address:	19 Rutherford Rd S Unit 3		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4617-7UTNGZ-14.pdf		

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4 | ***19 of 28*** | ***NW/41.3*** | ***214.8 / 0.00*** | ***c-max***
19 rutherford rd
brampton ON L6W-3J3 | ***GEN***

Generator No:	ON8257318	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2016	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	Derek e Hall
MHSW Facility:	No	**Phone No Admin:**	905-541-6646 Ext.
SIC Code:	415110		
SIC Description:	NEW AND USED AUTOMOBILE AND LIGHT-DUTY TRUCK WHOLESALER-DISTRIBUTORS		

Detail(s)

Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

---

4 | ***20 of 28*** | ***NW/41.3*** | ***214.8 / 0.00*** | ***Signage and Lighting Systems Inc***
19 Rutherford Road South unit 3
Brampton ON L6W 3H3 | ***GEN***

Generator No:	ON8811685	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2015	**Choice of Contact:**	CO_ADMIN
Contam. Facility:	No	**Co Admin:**	stephen nazar
MHSW Facility:	No	**Phone No Admin:**	905-405-9555 Ext.
SIC Code:	339950		
SIC Description:	SIGN MANUFACTURING		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

---

4 ***21 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***Signage & Lighting Systems Inc*** ***GEN***
19 Rutherford Road South unit 3
Brampton ON L6W 3H3

Generator No: ON8811685
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 339950
SIC Description: SIGN MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: stephen nazar
Phone No Admin: 905-405-9555 Ext.

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

4 ***22 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***c-max*** ***GEN***
19 rutherford rd
brampton ON L6W-3J3

Generator No: ON8257318
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 415110
SIC Description: NEW AND USED AUTOMOBILE AND LIGHT-DUTY TRUCK WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Derek e Hall
Phone No Admin: 905-541-6646 Ext.

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

4 ***23 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***c-max*** ***GEN***
19 rutherford rd
brampton ON L6W-3J3

Generator No: ON8257318
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 415110
SIC Description: NEW AND USED AUTOMOBILE AND LIGHT-DUTY TRUCK WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Derek e Hall
Phone No Admin: 905-541-6646 Ext.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

4 ***24 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***Signage and Lighting Systems Inc*** ***GEN***
19 Rutherford Road South unit 3
Brampton ON L6W 3H3

Generator No: ON8811685
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 339950
SIC Description: SIGN MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: stephen nazar
Phone No Admin: 905-405-9555 Ext.

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

---

4 ***25 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***c-max paint*** ***GEN***
19 rutherford rd
brampton ON L6W-3J3

Generator No: ON8257318
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211 B
Waste Class Desc: Aromatic solvents and residues

---

4 ***26 of 28*** ***NW/41.3*** ***214.8 / 0.00*** ***Signage & Lighting Systems Inc*** ***GEN***
19 Rutherford Road South unit 3
Brampton ON L6W 3H3

Generator No: ON8811685
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 H
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 211 H
Waste Class Desc: Aromatic solvents and residues

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4 | **27 of 28** | **NW/41.3** | **214.8 / 0.00** | **BRAMPTON LUMBER HOME HARDWARE**
19 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W3J3 | **PES**

Detail Licence No:
Licence No: 09447
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Retail Vendor Class 03
Licence Type Code: 21
Licence Class: 03
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 416
Oper Phone No: 4555755
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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4 | **28 of 28** | **NW/41.3** | **214.8 / 0.00** | **1238473 ONTARIO LTD. \BRAMPTON HOME HARDWARE**
19 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W3J3 | **PES**

Detail Licence No:
Licence No: 11274
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Retail Vendor Class 03
Licence Type Code: 21
Licence Class: 03
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 4555755
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

5 | **1 of 1** | **E/17.7** | **213.8 / -1.02** | **The Regional Municipality of Peel**
Clark Boulevard and Queen Street East
Brampton ON L6T 4B9 | **ECA**

Approval No: 7863-5NMPLZ
Approval Date: 2003-06-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Address: Clark Boulevard and Queen Street East
Full Address:
Full PDF Link:

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6 *1 of 2* *NNE/46.1* *214.8 / 0.00* ***28 Rutherford Road South*** ***Brampton ON L6W 3J1*** ***EHS***

Order No: 20020924005
Status: C
Report Type: Site Report
Report Date: 9/25/02
Date Received: 9/24/02
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: Clark Blvd and Rutherford Road South
Municipality: Peel
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.73973
Y: 43.699978

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6 *2 of 2* *NNE/46.1* *214.8 / 0.00* ***CUSTOM AUTOBODY REPAIR AND REFINISHING INC*** ***28 RUTHERFORD RD S*** ***BRAMPTON ON L6W 3J1*** ***EASR***

Approval No: R-001-9632830239
Status: REGISTERED
Date: 2016-09-02
Record Type: EASR
Link Source: MOFA
Project Type: Automotive Refinishing Facility
Full Address:
Approval Type: EASR-Automotive Refinishing Facility
Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2024521

SWP Area Name: Toronto
MOE District: Halton-Peel
Municipality: BRAMPTON
Latitude: 43.70027778
Longitude: -79.73944444
Geometry X:
Geometry Y:

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7 *1 of 6* *NE/61.5* *214.5 / -0.35* ***AGGREGATION CONTRACT FURNITURE*** ***32 RUTHERFORD RD S*** ***BRAMPTON ON L6W 3J1*** ***SCT***

Established: 1989
Plant Size (ft²): 0
Employment: 4

--Details--
Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

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7 *2 of 6* *NE/61.5* *214.5 / -0.35* ***KNECHT & BERCHTOLD INC.*** ***32 RUTHERFORD RD S*** ***BRAMPTON ON L6W 3J1*** ***SCT***

Established: 1953
Plant Size (ft²): 30000
Employment: 15

--Details--
Description: CONCRETE PRODUCTS, EXCEPT BRICK AND BLOCK
SIC/NAICS Code: 3272

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

Description: Institutional Furniture Manufacturing
SIC/NAICS Code: 337127

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7 | **3 of 6** | **NE/61.5** | **214.5 / -0.35** | **AGGREGATION CONTRACT FURNITURE**
32 RUTHERFORD RD S
BRAMPTON ON L6W 3J1 | **SCT**

Established: 1989
Plant Size (ft²): 0
Employment: 4

--Details--
Description: CONCRETE PRODUCTS, EXCEPT BRICK AND BLOCK
SIC/NAICS Code: 3272

---

7 | **4 of 6** | **NE/61.5** | **214.5 / -0.35** | **Aggregation Contract Furniture Inc. - Div. of Knecht & Berchtold Inc.**
32 Rutherford Rd S
Brampton ON L6W 3J1 | **SCT**

Established: 1989
Plant Size (ft²):
Employment: 4

--Details--
Description: Institutional Furniture Manufacturing
SIC/NAICS Code: 337127

---

7 | **5 of 6** | **NE/61.5** | **214.5 / -0.35** | **32 Rutherford Road South**
Brampton ON L6W 3J1 | **EHS**

Order No: 20020925001
Status: C
Report Type: Site Report
Report Date: 9/26/02
Date Received: 9/25/02
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: Clark Blvd. and Rutherford Road South
Municipality: Peel
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.739397
Y: 43.699722

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7 | **6 of 6** | **NE/61.5** | **214.5 / -0.35** | **32 Rutherford Road South**
Brampton ON L6W 3J1 | **EHS**

Order No: 20181130165
Status: C
Report Type: Standard Report
Report Date: 06-DEC-18
Date Received: 30-NOV-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.739072
Y: 43.700012

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	NNE/67.6	214.8 / 0.00	Rutherford Road And Clark Brampton ON L6W3J1	EHS

Order No:	20141211063	**Nearest Intersection:**	
Status:	C	**Municipality:**	Brampton
Report Type:	Standard Select Report	**Client Prov/State:**	ON
Report Date:	18-DEC-14	**Search Radius (km):**	.25
Date Received:	11-DEC-14	**X:**	-79.739426
Previous Site Name:		**Y:**	43.70029
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	NW/118.1	216.5 / 1.63	5 Rutherford Rd South Brampton ON L6W 3J3	EHS

Order No:	20010803008	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Basic Report	**Client Prov/State:**	ON
Report Date:	8/14/01	**Search Radius (km):**	0.30
Date Received:	8/3/01	**X:**	-79.741218
Previous Site Name:		**Y:**	43.700034
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 5	N/97.2	214.8 / 0.00	ICI PAINTS (CANADA) INC. 24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	GEN

Generator No:	ON0003983	**PO Box No:**	
Status:		**Country:**	
Approval Years:	96,97	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	3751		
SIC Description:	PAINT & VARNISH IND.		

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 5	N/97.2	214.8 / 0.00	ICI PAINTS (CANADA) INC 24-A RUTHERFORD ROAD BRAMPTON ON L6W 3J1	GEN

Generator No:	ON0003983	**PO Box No:**	
Status:		**Country:**	
Approval Years:	98,99,00,01	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	3751		
SIC Description:	PAINT & VARNISH IND.		

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

10 **3 of 5** **N/97.2** **214.8 / 0.00** **ICI Canada Inc.**
24A Rutherford Road
Brampton ON L6W 3J1
GEN

Generator No: ON5123806
Status:
Approval Years: 04,05,06
Contam. Facility:
MHSW Facility:
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

10 **4 of 5** **N/97.2** **214.8 / 0.00** **Akzo Nobel Paints LLC**
24A Rutherford Road
Brampton ON
GEN

Generator No: ON5123806
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

10 **5 of 5** **N/97.2** **214.8 / 0.00** **Akzo Nobel Paints LLC**
24A Rutherford Road
Brampton ON
GEN

Generator No: ON5123806
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	SW/77.4	215.8 / 0.98	The Corporation of the City of Brampton Queen St E From Centre Street to Highway 410 Brampton ON L6Y 5T1	ECA

Approval No:	4883-7X2MEF	**MOE District:**	Halton-Peel
Approval Date:	2009-10-28	**City:**	
Status:	Approved	**Longitude:**	-79.7414
Record Type:	ECA	**Latitude:**	43.6983
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Toronto	**Geometry Y:**	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Queen St E From Centre Street to Highway 410
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5766-7WUPX6-14.pdf

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	1 of 33	ESE/131.4	213.8 / -1.00	PRE-CON COMPANY ETOBICOKE CREEK BRAMPTON PLANT 35 RUTHERFORD ROAD SOUTH BRAMPTON CITY ON	SPL

Ref No:	38617	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	8/1/1990	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21101
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	MUNCIPALITY
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/2/1990	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	MATERIAL FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: PRE-CON - HIGH SUSPENDED SOLIDS (LIME) TO CREEK.
Contaminant Qty:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	2 of 33	ESE/131.4	213.8 / -1.00	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF 35 RUTHERFORD RD HANSEN RD ENTRANCE BRAMPTON ON	PRT

Location ID: 20062
Type: private
Expiry Date:
Capacity (L): 20000.00
Licence #: 0076361930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	3 of 33	ESE/131.4	213.8 / -1.00	Armtec/Pre-Con	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				35 Rutherford Rd S **Brampton ON L6W 3J4**	

Established: 01-JUN-58
Plant Size (ft²):
Employment:

--Details--
Description: Wood Preservation
SIC/NAICS Code: 321114

Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

12	4 of 33	ESE/131.4	213.8 / -1.00	**35 Rutherford Rd. South** **Brampton ON L6W 3J4**	CA

Certificate #:
Application Year: 00
Issue Date: 4/12/00
Approval Type: Industrial sewage
Status: Cancelled
Application Type: Revocation
Client Name: Pre-Con Limited
Client Address: 35 Rutherford Rd. South
Client City: Brampton
Client Postal Code: L6W 3J4
Project Description: This application is requesting the revocation of Certificate of Approval 4-110-70-006, as the discharge of treated process water has been discontinued.
Contaminants:
Emission Control:

12	5 of 33	ESE/131.4	213.8 / -1.00	**PRE-CON COMPANY** **35 RUTHERFORD RD. SOUTH** **BRAMPTON ON L6W 3J4**	GEN

Generator No: ON0727800
Status:
Approval Years: 86,87,88
Contam. Facility:
MHSW Facility:
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

12	6 of 33	ESE/131.4	213.8 / -1.00	**PRE-CON COMPANY** **35 RUTHERFORD ROAD SOUTH** **BRAMPTON ON L6W 3J4**	GEN

Generator No: ON0727800
Status:
Approval Years: 89,90,99,00,01
Contam. Facility:

PO Box No:
Country:
Choice of Contact:
Co Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility: ***Phone No Admin:***
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

12	***7 of 33***	***ESE/131.4***	***213.8 / -1.00***	***PRE-CON COMPANY 31-282*** ***35 RUTHERFORD ROAD SOUTH*** ***BRAMPTON ON L6W 3J4***	***GEN***

Generator No: ON0727800 ***PO Box No:***
Status: ***Country:***
Approval Years: 92,93,94,95,96,97,98 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

12	***8 of 33***	***ESE/131.4***	***213.8 / -1.00***	***PRE-CON INC.*** ***35 RUTHERFORD ROAD SOUTH*** ***BRAMPTON ON***	***GEN***

Generator No: ON0727800 ***PO Box No:***
Status: ***Country:***
Approval Years: 03,04,05,06,07,08 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 339990
SIC Description: All Other Miscellaneous Mfg.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 231
Waste Class Desc: LATEX WASTES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

12	*9 of 33*	*ESE/131.4*	*213.8 / -1.00*	***PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION 35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4***	*FSTH*

License Issue Date: 5/7/1992
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 10000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active

Year of Installation:	1984
Corrosion Protection:	
Capacity:	10000
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline

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12 | **10 of 33** | **ESE/131.4** | **213.8 / -1.00** | **PRE-CON INC.**
35 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J4 | **NPRI**

NPRI ID:	11426	**Org ID:**	62670
Other ID:	*	**Submit Date:**	5/25/2007
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	44360	**Contact ID:**	197400
Report ID:	103915	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	PAUL
Report Year:	2006	**Cont Last Name:**	SLOSARCIK
Not-Current Rpt?:	No	**Contact Position:**	PLANT MANAGER
Yr of Last Filed Rpt:	2010	**Contact Fax:**	9054575323
Fac ID:	158469	**Contact Ph.:**	9054574140
Fac Name:	BRAMPTON PRE-CAST FACILITY	**Cont Area Code:**	905
Fac Address1:	35 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	54574140
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	630
Fac Postal Zip:	L6W3J4	**Cont Fax Area Cde:**	905
Facility Lat:	43.6983	**Contact Fax:**	54575323
Facility Long:	-79.7377	**Contact Email:**	PSLOSARCIK@PRE-CON.COM
DLS (Last Filed Rpt):		**Latitude:**	43.6983
Facility DLS:		**Longitude:**	-79.7377
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	Fals	**UTM Northing:**	
URL:	www.pre-con.com	**UTM Easting:**	
No of Empl.:	226	**Waste Streams:**	True¿
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	Fals
Pollut Prev Cmnts:	False	**No Off Sites:**	1.00
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3273		
NAICS 4 Description:	Cement and concrete product manufacturing		
NAICS Code (6 digit):	327390		
NAICS 6 Description:	Other concrete product manufacturing		

Substance Release Report

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Copper (and its compounds)
Chem (fr):	Cuivre (et ses composés)
Quantity:	0
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	.395
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Nickel (and its compounds)
Chem (fr):	Nickel (et ses composés)
Quantity:	0
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Calcium oxide
Chem (fr):	Oxyde de calcium
Quantity:	.018
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Manganese (and its compounds)
Chem (fr):	Manganèse (et ses composés)
Quantity:	0
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	11 of 33	ESE/131.4	213.8 / -1.00	**Pre-Con Inc.** **35 Rutherford Road South Brampton Ontario** **L6W 3J4 Brampton** **ON**	EBR

EBR Registry No:	IA05E1482	**Decision Posted:**	
Ministry Ref No:	0195-6G7LVV	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:	803006928	**Act 1:**	
Notice Date:	July 14, 2008	**Act 2:**	
Proposal Date:	September 21, 2005	**Site Location Map:**	
Year:	2005		
Instrument Type:	(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)		
Off Instrument Name:			
Posted By:			
Company Name:	Pre-Con Inc.		
Site Address:			

Location Other:
Proponent Name:
Proponent Address: c/o Lafarge Canada Inc. 7880 Keele Street, Vaughan Ontario, L4K 4G7
Comment Period:
URL:

Site Location Details:

35 Rutherford Road South Brampton Ontario L6W 3J4 Brampton

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12 | ***12 of 33*** | ***ESE/131.4*** | ***213.8 / -1.00*** | ***PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP 35 RUTHERFORD ROAD SOUTH NOT AVAILABLE BRAMPTON ON L6W3J4*** | ***NPRI***

NPRI ID:	11426	***Org ID:***	62671
Other ID:	*	***Submit Date:***	5/30/2008
No Other ID:		***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	56364	***Contact ID:***	197395
Report ID:	114070	***Cont Type:***	MED
Report Type:	NPRI	***Contact Title:***	
Rpt Type ID:	1	***Cont First Name:***	PAUL
Report Year:	2007	***Cont Last Name:***	SLOSARCIK
Not-Current Rpt?:	No	***Contact Position:***	MANAGER OF MANUFACTURING
Yr of Last Filed Rpt:	2010	***Contact Fax:***	9054575323
Fac ID:	158469	***Contact Ph.:***	9054574140
Fac Name:	BRAMPTON PRE-CAST FACILITY	***Cont Area Code:***	905
Fac Address1:	35 RUTHERFORD ROAD SOUTH	***Contact Tel.:***	54574140
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	630
Fac Postal Zip:	L6W3J4	***Cont Fax Area Cde:***	905
Facility Lat:	43.6983	***Contact Fax:***	54575323
Facility Long:	-79.7377	***Contact Email:***	PSLOSARCIK@PRE-CON.COM
DLS (Last Filed Rpt):		***Latitude:***	43.6983
Facility DLS:		***Longitude:***	-79.7377
Datum:	1983	***UTM Zone:***	
Facility Cmnts:	False	***UTM Northing:***	
URL:	www.pre-con.com	***UTM Easting:***	
No of Empl.:	226	***Waste Streams:***	True¿
Parent Co.:	N	***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	True
Pollut Prev Cmnts:	False	***No Off Sites:***	1.00
Stacks:	True	***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3273		
NAICS 4 Description:	Cement and concrete product manufacturing		
NAICS Code (6 digit):	327390		
NAICS 6 Description:	Other concrete product manufacturing		

Substance Release Report

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Chem: Copper (and its compounds)
Chem (fr): Cuivre (et ses composés)
Quantity: 0
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Manganese (and its compounds)
Chem (fr): Manganèse (et ses composés)
Quantity: 0
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

12	13 of 33	ESE/131.4	213.8 / -1.00	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION 35 RUTHERFORD RD S HANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	FSTH

License Issue Date: 5/7/1992
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 10000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 10000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

12	14 of 33	ESE/131.4	213.8 / -1.00	35 Rutherford Road Brampton ON L6W 3J4	EHS

Order No: 20090213018
Status: C
Report Type: Custom Report
Report Date: 2/25/2009
Date Received: 2/13/2009
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: Rutherford Rd. & Clark Blvd
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.740619
Y: 43.695155

12	15 of 33	ESE/131.4	213.8 / -1.00	PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP 35 RUTHERFORD ROAD SOUTH NOT AVAILABLE	NPRI

BRAMPTON ON L6W3J4

NPRI ID:	11426	***Org ID:***	62671
Other ID:	*	***Submit Date:***	6/1/2009
No Other ID:		***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	69483	***Contact ID:***	198991
Report ID:	124576	***Cont Type:***	MED
Report Type:	NPRI	***Contact Title:***	
Rpt Type ID:	1	***Cont First Name:***	PETER
Report Year:	2008	***Cont Last Name:***	QUAIL
Not-Current Rpt?:	No	***Contact Position:***	PRESIDENT
Yr of Last Filed Rpt:	2010	***Contact Fax:***	9054575323
Fac ID:	158469	***Contact Ph.:***	9054574140
Fac Name:	BRAMPTON PRE-CAST FACILITY	***Cont Area Code:***	905
Fac Address1:	35 RUTHERFORD ROAD SOUTH	***Contact Tel.:***	54574140
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	631
Fac Postal Zip:	L6W3J4	***Cont Fax Area Cde:***	905
Facility Lat:	43.6983	***Contact Fax:***	54575323
Facility Long:	-79.7377	***Contact Email:***	NOT AVAILABLE
DLS (Last Filed Rpt):		***Latitude:***	43.6983
Facility DLS:		***Longitude:***	-79.7377
Datum:	1983	***UTM Zone:***	
Facility Cmnts:	No	***UTM Northing:***	
URL:	www.pre-con.com	***UTM Easting:***	
No of Empl.:	218	***Waste Streams:***	No
Parent Co.:	N	***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	Yes
Pollut Prev Cmnts:	No	***No Off Sites:***	1
Stacks:	No	***Shutdown:***	No
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3273		
NAICS 4 Description:	Cement and concrete product manufacturing		
NAICS Code (6 digit):	327390		
NAICS 6 Description:	Other concrete product manufacturing		

Substance Release Report

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Copper (and its compounds)
Chem (fr):	Cuivre (et ses composés)
Quantity:	0
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	Nickel (and its compounds)
Chem (fr):	Nickel (et ses composés)
Quantity:	0
Unit:	tonnes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Manganese (and its compounds)
Chem (fr): Manganèse (et ses composés)
Quantity: 0
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

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12 | **16 of 33** | **ESE/131.4** | **213.8 / -1.00** | **PRE-CON, CON-FORCE DIVISION OF ARMTEC LIMITED PARTNERSHIP**
35 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J4 | **NPRI**

NPRI ID: 11426
Other ID: *
No Other ID:
Track ID: 83429
Report ID: 137289
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2009
Not-Current Rpt?: No
Yr of Last Filed Rpt: 2010
Fac ID: 158469
Fac Name: BRAMPTON PRE-CAST FACILITY
Fac Address1: 35 RUTHERFORD ROAD SOUTH
Fac Address2: NOT AVAILABLE
Fac Postal Zip: L6W3J4
Facility Lat: 43.6983
Facility Long: -79.7377
DLS (Last Filed Rpt):
Facility DLS:
Datum: 1983
Facility Cmnts: No
URL: www.pre-con.com
No of Empl.: 226
Parent Co.: N
No Parent Co.:
Pollut Prev Cmnts: No
Stacks: No
No of Stacks:
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 32
NAICS 2 Description: Manufacturing
NAICS Code (4 digit): 3273
NAICS 4 Description: Cement and concrete product manufacturing
NAICS Code (6 digit): 327390
NAICS 6 Description: Other concrete product manufacturing

Org ID: 62671
Submit Date: 5/26/2010
Last Modified: 5/29/2015 3:28:24 PM
Contact ID: 197395
Cont Type: MED
Contact Title:
Cont First Name: PAUL
Cont Last Name: SLOSARCIK
Contact Position: MANAGER OF MANUFACTURING
Contact Fax: 9054575323
Contact Ph.: 9054574140
Cont Area Code: 905
Contact Tel.: 54574140
Contact Ext.: 630
Cont Fax Area Cde: 905
Contact Fax: 54575323
Contact Email: PSLOSARCIK@PRE-CON.COM
Latitude: 43.6983
Longitude: -79.7377
UTM Zone:
UTM Northing:
UTM Easting:
Waste Streams: No
No Streams:
Waste Off Sites: Yes
No Off Sites: 1
Shutdown: No
No of Shutdown:

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12 | **17 of 33** | **ESE/131.4** | **213.8 / -1.00** | **ARMTEC LIMITED PARTNERSHIP**
35 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J4 | **NPRI**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

NPRI ID:	11426	**Org ID:**	102736
Other ID:	Y	**Submit Date:**	6/16/2011
No Other ID:	1	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	91929	**Contact ID:**	
Report ID:	145987	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2010	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2010	**Contact Fax:**	
Fac ID:	158469	**Contact Ph.:**	
Fac Name:	BRAMPTON PRE-CAST FACILITY	**Cont Area Code:**	
Fac Address1:	35 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J4	**Cont Fax Area Cde:**	
Facility Lat:	43.6983	**Contact Fax:**	
Facility Long:	-79.7377	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.6983
Facility DLS:		**Longitude:**	-79.7377
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	226	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3273		
NAICS 4 Description:	Cement and concrete product manufacturing		
NAICS Code (6 digit):	327390		
NAICS 6 Description:	Other concrete product manufacturing		

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12 | ***18 of 33*** | ***ESE/131.4*** | ***213.8 / -1.00*** | ***PRE-CON INC.***
35 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J4 | ***GEN***

Generator No:	ON0727800	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2009	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	339990, 339990, 339990		
SIC Description:	All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing		

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 268
Waste Class Desc: AMINES

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12 ***19 of 33*** ***ESE/131.4*** ***213.8 / -1.00*** ***PRE-CON INC.*** ***GEN***
35 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J4

Generator No: ON0727800
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 339990, 339990, 339990
SIC Description: All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 122

Waste Class Desc: ALKALINE WASTES - OTHER METALS

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12 **20 of 33** **ESE/131.4** **213.8 / -1.00** **PRE-CON INC.** **GEN**
35 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J4

Generator No: ON0727800
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 339990, 339990, 339990
SIC Description: All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

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12 **21 of 33** **ESE/131.4** **213.8 / -1.00** **PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION** **EXP**
35 RUTHERFORD RD SHANSEN RD ENTRANCE
BRAMPTON ON L6W 3J4

Instance No: 11115218
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 7/22/2014 9:07:22 AM

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	22 of 33	ESE/131.4	213.8 / -1.00	PRE CON COMPANY ATTN VICE PRESIDENT A DIVISION OF ST MARYS CEMENT CORPORATION 35 RUTHERFORD RD SHANSEN RD ENTRANCE BRAMPTON ON L6W 3J4	EXP

Instance No: 11115190
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 7/22/2014 9:07:22 AM

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	23 of 33	ESE/131.4	213.8 / -1.00	PRE-CON INC. 35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	GEN

Generator No: ON0727800
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 339990, 339990, 339990
SIC Description: All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing, All Other Miscellaneous Manufacturing
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	24 of 33	ESE/131.4	213.8 / -1.00	Armtec GP Inc. operating as Armtec LP 35 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON ON	EBR

EBR Registry No: 012-6496
Ministry Ref No: 6294-A5GMAP
Notice Type: Instrument Decision
Notice Stage: 828900552
Notice Date: March 16, 2017
Proposal Date: January 21, 2016
Year: 2016
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Armtec GP Inc. operating as Armtec LP
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3300 7 Highway , 500, Concord Ontario, Canada L4K 4M3
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

35 Rutherford Road South Brampton Regional Municipality of Peel CITY OF BRAMPTON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	25 of 33	ESE/131.4	213.8 / -1.00	35 Rutherford Road South Brampton ON	EHS

Order No: 20150625021
Status: C
Report Type: Standard Report
Report Date: 02-JUL-15
Date Received: 25-JUN-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality: Brampton
Client Prov/State: ON
Search Radius (km): .25
X: -79.738836
Y: 43.697961

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	26 of 33	ESE/131.4	213.8 / -1.00	Armtec Ltd. 35 Rutherford Rd. S Brampton ON L6W 3J4	GEN

Generator No: ON3355719
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 327390
SIC Description: OTHER CONCRETE PRODUCT MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Thang Tran
Phone No Admin: 416 528 5844 Ext.

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	27 of 33	ESE/131.4	213.8 / -1.00	Armtec Ltd. 35 Rutherford Rd. S Brampton ON L6W 3J4	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON3355719
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 327390
SIC Description: OTHER CONCRETE PRODUCT MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Thang Tran
Phone No Admin: 416 528 5844 Ext.

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

12	28 of 33	ESE/131.4	213.8 / -1.00	PRE-CON INC. 35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	GEN

Generator No: ON0727800
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 339990, 339990, 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING, ALL OTHER MISCELLANEOUS MANUFACTURING, ALL OTHER MISCELLANEOUS MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

12	29 of 33	ESE/131.4	213.8 / -1.00	PRE-CON INC. 35 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J4	GEN

Generator No: ON0727800

PO Box No:

Status: ***Country:*** Canada
Approval Years: 2014 ***Choice of Contact:*** CO_OFFICIAL
Contam. Facility: No ***Co Admin:***
MHSW Facility: No ***Phone No Admin:***
SIC Code: 339990, 339990, 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING, ALL OTHER MISCELLANEOUS MANUFACTURING, ALL OTHER MISCELLANEOUS MANUFACTURING

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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12 ***30 of 33*** ***ESE/131.4*** ***213.8 / -1.00*** ***Armtec LP***
35 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J4 ***GEN***

Generator No: ON0727800 ***PO Box No:***
Status: Registered ***Country:*** Canada
Approval Years: As of Dec 2018 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code:
SIC Description:

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	31 of 33	ESE/131.4	213.8 / -1.00	Cooney Bulk Sales Limited 35 Rutherford Road South Brampton ON	SPL

Ref No:	2037-B9R2PR	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2/25/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	35 Rutherford Road South
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	1202	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Brampton
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2/25/2019	**Site Map Datum:**	
Dt Document Closed:	4/6/2019	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Truck - Only Saddle Tanks
Site Name:	Arm Tech<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	Cooney Bulk Sales: 400 L diesel spilled to ground, contained		
Contaminant Qty:	400 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	32 of 33	ESE/131.4	213.8 / -1.00	L.M. Generating Power <UNOFFICIAL> 35 Rutherford Rd South Brampton ON	SPL

Ref No:	1550-B96LR3	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2019/02/07	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Unknown / N/A
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	27	**Nearest Watercourse:**	
Contaminant Name:	COOLANT N.O.S.	**Site Address:**	35 Rutherford Rd South
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Brampton
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4839624.24
MOE Response:	No	**Easting:**	601185.64
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2019/02/07	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Unknown / N/A	**Source Type:**	Other
Site Name:	LM Generator<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	L.M. Generating Power: coolant spill from a generator on asphalt		
Contaminant Qty:	150 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	33 of 33	ESE/131.4	213.8 / -1.00	Pre-Con Inc. 35 Rutherford Rd S Brampton ON L6W 3J4	SPL

Ref No:	0553-BCNQSY	**Discharger Report:**	
Site No:	7465-4GTQJJ	**Material Group:**	
Incident Dt:	4/1/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	
Incident Event:	Unknown / N/A	**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	35 Rutherford Rd S
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	L6W 3J4
Contaminant UN No 1:		**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Brampton
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:	Land	**Northing:**	NA
MOE Response:	No	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	5/30/2019	**Site Map Datum:**	NA
Dt Document Closed:		**SAC Action Class:**	Pollution Incident Reports (PIRs) and "Other" calls
Incident Reason:	Unknown / N/A	**Source Type:**	
Site Name:	35 Rutherford Road South		
Site County/District:	Regional Municipality Of Peel		
Site Geo Ref Meth:	NA		
Incident Summary:	MOE TIPS: on-going environmental non-compliance at Pre-Con		
Contaminant Qty:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1	E/103.2	213.8 / -1.02	36 Rutherford Rd S Brampton ON L6W3J5	EHS

Order No:	20170421027	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-APR-17	**Search Radius (km):**	.25
Date Received:	21-APR-17	**X:**	-79.738118
Previous Site Name:		**Y:**	43.699524
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 8	NNW/118.4	215.8 / 0.98	THERMO ELECTRIC CANADA LTD 12 RUTHERFORD RD S BRAMPTON ON L6W 3J2	SCT

Established:	1953
Plant Size (ft²):	10000
Employment:	30

--Details--

Description:	DRAWING AND INSULATING OF NONFERROUS WIRE
SIC/NAICS Code:	3357
Description:	AUTOMATIC CONTROLS FOR REGULATING RESIDENTIAL AND COMMERCIAL ENVIRONMENTS AND APPLIANCES
SIC/NAICS Code:	3822
Description:	INDUSTRIAL INSTRUMENTS FOR MEASUREMENT, DISPLAY, AND CONTROL OF PROCESS VARIABLES; & RELATED ITEMS
SIC/NAICS Code:	3823

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: MEASURING AND CONTROLLING DEVICES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3829

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14 **2 of 8** **NNW/118.4** **215.8 / 0.98** **REAGENCY SYSTEMS CORP.**
16 RUTHERFORD RD S FLOOR 2
BRAMPTON ON L6W 3J1 **SCT**

Established: 0000
Plant Size (ft²): 0
Employment: 0

--Details--
Description: MAGNETIC AND OPTICAL RECORDING MEDIA
SIC/NAICS Code: 3695

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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14 **3 of 8** **NNW/118.4** **215.8 / 0.98** **Thermo Electric (Canada) Ltd.**
12 Rutherford Rd S
Brampton ON L6W 3J2 **SCT**

Established: 01-JUL-53
Plant Size (ft²): 10000
Employment:

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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14 **4 of 8** **NNW/118.4** **215.8 / 0.98** **THERMO-ELECTRIC (CANADA) LIMITED**
12 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J2 **GEN**

Generator No: ON0898700
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3081
SIC Description: MACHINE SHOP IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253

Waste Class Desc: EMULSIFIED OILS

---

14 **5 of 8** **NNW/118.4** **215.8 / 0.98** **THERMO-ELECTRIC (CANADA) LIMITED** **GEN**
12 RUTHERFORD ROAD SOUNT
BRAMPTON ON L6W 3J2

Generator No: ON0898700
Status:
Approval Years: 92,93,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 3081
SIC Description: MACHINE SHOP IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

14 **6 of 8** **NNW/118.4** **215.8 / 0.98** **THERMO-ELECTRIC (CANADA) LIMITED 37-311** **GEN**
12 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J2

Generator No: ON0898700
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 3081
SIC Description: MACHINE SHOP IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

14 **7 of 8** **NNW/118.4** **215.8 / 0.98** **THERMO-ELECTRIC (CANADA) LIMITED** **GEN**
12 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J2

Generator No: ON0898700
Status:
Approval Years: 99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 3081
SIC Description: MACHINE SHOP IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

14 | **8 of 8** | **NNW/118.4** | **215.8 / 0.98** | **Thermo Electric Canada Ltd.**
12 Rutherford Road South
Brampton ON L6W 3J2 | **GEN**

Generator No: ON4641184
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 332619
SIC Description: Other Fabricated Wire Product Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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15 | **1 of 11** | **ESE/132.5** | **213.0 / -1.86** | **CONTRACTOR**
CREEK BEHIND 52 RUTHERFORD RD. SOUTH (N.O.S.)
BRAMPTON CITY ON L6W 3J5 | **SPL**

Ref No: 91850
Site No:
Incident Dt: 9/30/1993
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/30/1993
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: IKG GRADING: ALKYD RUST PROOF RESIN WASHED TO STORM SEWER & CREEK
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 21101
Site Lot:
Site Conc:
Northing:
Easting: CITY OF BRAMPTON
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	2 of 11	ESE/132.5	213.0 / -1.86	CITY OF BRAMPTON 52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	PRT

Location ID: 1999
Type: private
Expiry Date:
Capacity (L): 45460.00
Licence #: 0001025141

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	3 of 11	ESE/132.5	213.0 / -1.86	BRAMPTON, CORP. OF THE CITY OF 52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	GEN

Generator No: ON0236604
Status:
Approval Years: 89,90
Contam. Facility:
MHSW Facility:
SIC Code: 8359
SIC Description: OTHER GEN. ADMIN.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	4 of 11	ESE/132.5	213.0 / -1.86	BRAMPTON, CORPORATION OF THE CITY OF 52 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J5	GEN

Generator No: ON0236604
Status:
Approval Years: 92,93,97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 8359
SIC Description: OTHER GEN. ADMIN.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 222
Waste Class Desc: HEAVY FUELS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	5 of 11	ESE/132.5	213.0 / -1.86	BRAMPTON, CORP. OF THE CITY OF 04-371 52 RUTHERFORD RD. S. C/O 150 CENTRAL PARK DR. BRAMPTON ON L6W 3J5	GEN

Generator No: ON0236604
Status:

PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years:	94,95,96	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	8359		
SIC Description:	OTHER GEN. ADMIN.		

Detail(s)

Waste Class:	150
Waste Class Desc:	INERT INORGANIC WASTES
Waste Class:	222
Waste Class Desc:	HEAVY FUELS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	6 of 11	ESE/132.5	213.0 / -1.86	CITY OF BRAMPTON 52 RUTHERFORD RD S BRAMPTON ON L6W 3J5	FSTH

License Issue Date:	6/4/1990
Tank Status:	Licensed
Tank Status As Of:	August 2007
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

--Details--

Status:	Active
Year of Installation:	1978
Corrosion Protection:	
Capacity:	22730
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline
Status:	Active
Year of Installation:	1978
Corrosion Protection:	
Capacity:	22730
Tank Fuel Type:	Liquid Fuel Single Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	7 of 11	ESE/132.5	213.0 / -1.86	The Corporation of the City of Brampton 52 Rutherford Rd South Brampton ON L6W 3J5	GEN

Generator No:	ON6080224	**PO Box No:**	
Status:		**Country:**	
Approval Years:	06,07,08	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	913910		
SIC Description:	Other Local Municipal and Regional Public Administ		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	252

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Desc: WASTE OILS & LUBRICANTS

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15 | **8 of 11** | **ESE/132.5** | **213.0 / -1.86** | **CITY OF BRAMPTON**
52 RUTHERFORD RD S
BRAMPTON ON L6W 3J5 | **FSTH**

License Issue Date: 6/4/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1978
Corrosion Protection:
Capacity: 22730
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1978
Corrosion Protection:
Capacity: 22730
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

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15 | **9 of 11** | **ESE/132.5** | **213.0 / -1.86** | **52 Rutherford Rd S**
Brampton ON | **EHS**

Order No: 20121011052
Status: C
Report Type: Custom Report
Report Date: 04-JAN-13
Date Received: 11-OCT-12
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Topographic Maps

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .5
X: -79.737306
Y: 43.698553

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15 | **10 of 11** | **ESE/132.5** | **213.0 / -1.86** | **CITY OF BRAMPTON**
52 RUTHERFORD RD S
BRAMPTON ON L6W 3J5 | **FST**

Instance No: 10601050
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 22730
Tank Material: Steel
Corrosion Protection: Impressed Current
Tank Type: Single Wall UST
Install Year: 1978
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Type: FS Liquid Fuel Tank

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15 | **11 of 11** | **ESE/132.5** | **213.0 / -1.86** | **CITY OF BRAMPTON**
52 RUTHERFORD RD S
BRAMPTON ON L6W 3J5 | **FST**

Instance No: 10601095

Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 22730
Tank Material: Steel
Corrosion Protection: Impressed Current
Tank Type: Single Wall UST
Install Year: 1978
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Type: FS Liquid Fuel Tank

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16 | ***1 of 10*** | ***E/114.7*** | ***213.9 / -0.95*** | ***PREMIER PETERBILT INC.***
36 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J5 | ***CA***

Certificate #: 8-3595-97-
Application Year: 97
Issue Date: //
Approval Type: Industrial air
Status: In progress
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: WASTE DERIVED FUEL FURNACE CB-5000
Contaminants:
Emission Control:

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16 | ***2 of 10*** | ***E/114.7*** | ***213.9 / -0.95*** | ***Premier Peterbilt Inc.***
36 Rutherford Road South CITY OF BRAMPTON
ON | ***EBR***

EBR Registry No: IA7E1856
Ministry Ref No: 8359597 19971216
Notice Type: Instrument Decision
Notice Stage: 800469806
Notice Date: August 30, 2001
Proposal Date: December 22, 1997
Year: 1997
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Premier Peterbilt Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 36 Rutherford Road South, Brampton Ontario, L6W 3J5
Comment Period:
URL:

Site Location Details:

36 Rutherford Road South CITY OF BRAMPTON

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16 | ***3 of 10*** | ***E/114.7*** | ***213.9 / -0.95*** | ***Premier Peterbilt Inc.***
36 Rutherford Road South Brampton Ontario
L6W 3J5 Brampton | ***EBR***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				ON	

EBR Registry No: IA05E1145
Ministry Ref No: 0353-5DUGSK
Notice Type: Instrument Decision
Notice Stage: 803006930
Notice Date: July 16, 2007
Proposal Date: July 27, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Premier Peterbilt Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 36 Rutherford Road South, Brampton Ontario, L6W 3J5
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

36 Rutherford Road South Brampton Ontario L6W 3J5 Brampton

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16 | **4 of 10** | **E/114.7** | **213.9 / -0.95** | **36 Rutherford Rd S, Brampton ON L6W3J5** | **EHS**

Order No: 20140204052
Status: C
Report Type: Standard Report
Report Date: 13-FEB-14
Date Received: 04-FEB-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.738118
Y: 43.699524

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16 | **5 of 10** | **E/114.7** | **213.9 / -0.95** | **CRS Contractors Rental Supply, 36 Rutherford Road, Brampton ON L6W 3J5** | **GEN**

Generator No: ON3194275
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 417210
SIC Description: CONSTRUCTION AND FORESTRY MACHINERY, EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

---

16 **6 of 10** **E/114.7** **213.9 / -0.95** **CRS Contractors Rental Supply** **GEN**
36 Rutherford Road
Brampton ON L6W 3J5

Generator No: ON3194275
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 417210
SIC Description: CONSTRUCTION AND FORESTRY MACHINERY, EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

16 **7 of 10** **E/114.7** **213.9 / -0.95** **CRS Contractors Rental Supply** **GEN**
36 Rutherford Road
Brampton ON L6W 3J5

Generator No: ON3194275
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 417210
SIC Description: CONSTRUCTION AND FORESTRY MACHINERY, EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

---

16 **8 of 10** **E/114.7** **213.9 / -0.95** **CRS Contractors Rental Supply** **GEN**
36 Rutherford Road
Brampton ON L6W 3J5

Generator No: ON3194275

PO Box No:

Status:	Registered	***Country:***	Canada
Approval Years:	As of Dec 2018	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	212 H
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	213 T
Waste Class Desc:	Petroleum distillates
Waste Class:	221 I
Waste Class Desc:	Light fuels
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants

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16 | ***9 of 10*** | ***E/114.7*** | ***213.9 / -0.95*** | ***Contractors Rental Supply Inc.***
 36 Rutherford Road South
 Brampton ON | ***SPL***

Ref No:	2618-AT7RWN	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2017/11/16	***Health/Env Conseq:***	2 - Minor Environment
Year:		***Client Type:***	Corporation
Incident Cause:		***Sector Type:***	Miscellaneous Industrial
Incident Event:	Leak/Break	***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	36 Rutherford Road South
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:	n/a	***Site Region:***	Central
Environment Impact:		***Site Municipality:***	Brampton
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Land	***Northing:***	4839270
MOE Response:	No	***Easting:***	601691
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2017/11/17	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:	Equipment Failure	***Source Type:***	Valve/Fitting/Piping
Site Name:	Contractor's Rental<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	Contractors Rental: 30L hydraulic oil to asphalt, cnted.		
Contaminant Qty:	30 L		

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16 | ***10 of 10*** | ***E/114.7*** | ***213.9 / -0.95*** | ***Sunbelt Rentals of Canada Inc.***
 36 Rutherford Road
 Brampton ON L6W 3J5 | ***GEN***

Generator No:	ON3194275	***PO Box No:***	

Status:	Registered	**Country:**	Canada
Approval Years:	As of Oct 2019	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	212 H
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	221 I
Waste Class Desc:	Light fuels
Waste Class:	213 T
Waste Class Desc:	Petroleum distillates
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

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17 ***1 of 1*** ***E/127.1*** ***212.8 / -2.09*** ***ON*** ***WWIS***

Well ID:	7219489	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	4/28/2014
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7215
Casing Material:		**Form Version:**	8
Audit No:	C25485	**Owner:**	
Tag:	A162745	**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004733506	**Elevation:**	213.038406
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601698
Code OB Desc:		**North83:**	4839227
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	3/24/2014	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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18 **1 of 1** **SE/146.4** **215.8 / 0.96** **35 Rutherford Road South**
Brampton ON L6W 3J4 **EHS**

Order No:	20191219124	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	24-DEC-19	**Search Radius (km):**	.25
Date Received:	19-DEC-19	**X:**	-79.738927
Previous Site Name:		**Y:**	43.6979309
Lot/Building Size:			
Additional Info Ordered:			

---

19 **1 of 2** **SSE/143.2** **216.6 / 1.71** **AP INFRASTRUCTURE SOLUTIONS LP.**
35 Rutherford Rd South
Brampton ON L6W 3J4 **GEN**

Generator No:	ON6864778	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Oct 2019	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 148 I
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 268 C
Waste Class Desc: Amines

Waste Class: 211 I
Waste Class Desc: Aromatic solvents and residues

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 148 L
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class:	232 L
Waste Class Desc:	Polymeric resins
Waste Class:	222 L
Waste Class Desc:	Heavy fuels
Waste Class:	263 T
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	267 C
Waste Class Desc:	Organic acids
Waste Class:	268 L
Waste Class Desc:	Amines
Waste Class:	212 H
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	252 T
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	253 L
Waste Class Desc:	Emulsified oils
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	270 L
Waste Class Desc:	Other specified organic sludges, slurries or solids
Waste Class:	233 L
Waste Class Desc:	Other polymeric wastes
Waste Class:	252 I
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	123 L
Waste Class Desc:	Alkaline phosphates
Waste Class:	148 T
Waste Class Desc:	Misc. wastes and inorganic chemicals

19 ***2 of 2*** ***SSE/143.2*** ***216.6 / 1.71*** ***Pre-Con*** ***GEN***

35 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J4

Generator No:	ON0727800	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Oct 2019	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

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20 ***1 of 1*** ***NNW/152.0*** ***216.9 / 2.07*** ***10 RUTHEFORD ROAD SOUTH BRAMPTON ON*** ***HINC***

External File Num:	FS INC 0806-02770
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	6/2/2008
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:Yes Training:No Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

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21 ***1 of 1*** ***SW/118.7*** ***216.8 / 1.94*** ***ON*** ***BORE***

Borehole ID:	653070	***Inclin FLG:***	No
OGF ID:	215553421	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JUN-1970	***Municipality:***	
Static Water Level:	0.1	***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.69793
Total Depth m:	1.5	***Longitude DD:***	-79.741567
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	601405
Drill Method:	Power auger	***Northing:***	4839093
Orig Ground Elev m:	216	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	215		
Concession:			
Location D:			
Survey D:			
Comments:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Borehole Geology Stratum

Geology Stratum ID:	218537994	***Mat Consistency:***	
Top Depth:	.7	***Material Moisture:***	Moist
Bottom Depth:	1.5	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	Quaternary
Material 4:	Boulders	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 710.8 FEET.E,AGE QUATERNA **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218537993	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	Moist
Bottom Depth:	.7	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:	organic material	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	organic
Gsc Material Description:			
Stratum Description:	SOIL,ORGANIC. BROWN,MOIST.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 237320 NTS_Sheet: 30M12G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 4	NE/139.2	215.9 / 1.06	1060644 ONTARIO INC. 12 CLARK BOULEVARD BRAMPTON CITY ON L6W 1X3	CA

Certificate #:	8-3066-95-
Application Year:	95
Issue Date:	3/9/1995
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	WASTE OIL FURNACE MODEL CB-1400, 1800
Contaminants:	Suspended Particulate Matter, Nitrogen Oxides, Zinc, Sulphur Dioxide
Emission Control:	No Controls

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	2 of 4	NE/139.2	215.9 / 1.06	12 Clark Boulevard Brampton ON L6W 1X3	EHS

Order No:	20020611002	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	6/12/02	**Search Radius (km):**	0.25
Date Received:	6/11/02	**X:**	-79.737851
Previous Site Name:		**Y:**	43.700414
Lot/Building Size:	2 acres, 25,000 sq.ft Building		
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	3 of 4	NE/139.2	215.9 / 1.06	12 CLARK BOULEVARD BRAMPTON ON L6W 1X3	HINC

External File Num:	FS INC 0610-03152
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	9/19/2006
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:Yes Human Factors:No
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	4 of 4	NE/139.2	215.9 / 1.06	Quality Collision Centre Inc. 12 Clark Blvd Brampton ON L6W 1X3	SPL

Ref No:	8825-A7VJMX	**Discharger Report:**	
Site No:	0450-A98K9K	**Material Group:**	
Incident Dt:	2016/03/09	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	12 Clark Blvd
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	L6W 1X3
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Brampton
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Surface Water	**Northing:**	4860725
MOE Response:	Yes	**Easting:**	601309
Dt MOE Arvl on Scn:	2016/03/10	**Site Geo Ref Accu:**	GIS Software
MOE Reported Dt:	2016/03/09	**Site Map Datum:**	NAD83

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Dt Document Closed:	2016/06/04	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Equipment Failure	**Source Type:**	
Site Name:	Quality Collision Centre		
Site County/District:			
Site Geo Ref Meth:	10 -100 metres eg. Topographic Map		
Incident Summary:	Rainbow sheen at Tilbury court storm channel		
Contaminant Qty:	0 other - see incident description		

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23 | **1 of 1** | **NE/142.5** | **215.9 / 1.06** | **12 Clark Boulevard, Brampton ON L6W 1X3** | **EHS**

Order No:	20200128210	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	31-JAN-20	**Search Radius (km):**	.25
Date Received:	28-JAN-20	**X:**	-79.7387169
Previous Site Name:		**Y:**	43.7007659
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory		

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24 | **1 of 3** | **NNW/160.0** | **216.7 / 1.86** | **The Corporation of The City of Brampton, 8 Rutherford Road, Brampton ON L6W 3J1** | **GEN**

Generator No:	ON8494131	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2016	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	Kevin Hamilton
MHSW Facility:	No	**Phone No Admin:**	905 458 5343 Ext.
SIC Code:	913910		
SIC Description:	913910		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

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24 | **2 of 3** | **NNW/160.0** | **216.7 / 1.86** | **The Corporation of The City of Brampton, 8 Rutherford Road, Brampton ON L6W 3J1** | **GEN**

Generator No:	ON8494131	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2015	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	Kevin Hamilton
MHSW Facility:	No	**Phone No Admin:**	905 458 5343 Ext.
SIC Code:	913910		
SIC Description:	913910		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

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24 | **3 of 3** | **NNW/160.0** | **216.7 / 1.86** | **The Corporation of The City of Brampton, 8 Rutherford Road, Brampton ON L6W 3J1** | **GEN**

Generator No:	ON8494131	**PO Box No:**	

Status:		**Country:**	Canada
Approval Years:	2014	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	Kevin Hamilton
MHSW Facility:	No	**Phone No Admin:**	905 458 5343 Ext.
SIC Code:	913910		
SIC Description:	913910		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

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25 | ***1 of 1*** | ***ENE/146.9*** | ***214.8 / -0.03*** | ***ON*** | ***WWIS***

Well ID:	7269308	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	8/17/2016
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Monitoring and Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z213277	**Owner:**	
Tag:	A206176	**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006218111	**Elevation:**	213.338745
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601702
Code OB Desc:		**North83:**	4839343
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	7/12/2016	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006233912
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06

Most Common Material: SILT
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 12
Formation End Depth: 13
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006233910
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006233911
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 12
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006233921
Layer: 2
Plug From: 2
Plug To: 0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006233922
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1006233920
Layer:	1
Plug From:	13
Plug To:	2
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1006233909
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006233915
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	3
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006233916
Layer:	1
Slot:	.1
Screen Top Depth:	3
Screen End Depth:	13
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Hole Diameter

Hole ID:	1006233913
Diameter:	6
Depth From:	0
Depth To:	13
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

26	***1 of 1***	***SSW/142.3***	***217.2 / 2.36***	***ON***	***BORE***

Borehole ID:	653072	***Inclin FLG:***	No
OGF ID:	215553423	***SP Status:***	Initial Entry

Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1970	**Municipality:**	
Static Water Level:	0.1	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.697564
Total Depth m:	.8	**Longitude DD:**	-79.740955
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	601455
Drill Method:	Power auger	**Northing:**	4839053
Orig Ground Elev m:	217	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	217		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218537997	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	Moist
Bottom Depth:	.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	organic
Gsc Material Description:			
Stratum Description:	SOIL,ORGANIC. BROWN,MOIST.		

Geology Stratum ID:	218537998	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	Moist
Bottom Depth:	.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:	Boulders	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 712.6 FEET.E,AGE QUATERNA **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 237340 NTS_Sheet: 30M12G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
27	1 of 1	W/141.9	216.8 / 2.00	Brampton ON	WWIS

Well ID:	7298267	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/31/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7366
Casing Material:		**Form Version:**	7
Audit No:	Z273296	**Owner:**	
Tag:	A227258	**Street Name:**	253 WUEEN ST E
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786299	**Elevation:**	215.948364
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601325
Code OB Desc:		**North83:**	4839215
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/19/2017	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006963745
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0
Formation End Depth:	3.35
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963752
Layer: 1
Plug From: 0
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963753
Layer: 2
Plug From: 1.5
Plug To: 3.35
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1006963744
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006963748
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.8
Casing Diameter: 3.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006963749
Layer: 1
Slot: 10
Screen Top Depth: 1.8
Screen End Depth: 3.35
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4

Hole Diameter

Hole ID: 1006963746
Diameter: 10
Depth From: 0
Depth To: 3.35

Hole Depth UOM: m
Hole Diameter UOM: cm

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28 *1 of 4* *NW/188.3* *216.8 / 2.00* ***UNITED HARDWARE*** ***QUEEN'S CENTRE 263 QUEEN STREET EAST*** ***BRAMPTON ON L6W 4K6*** ***PES***

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Vendor	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			

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28 *2 of 4* *NW/188.3* *216.8 / 2.00* ***SANDERSON LW RESOURCE AND RECO*** ***263 QUEEN ST. EAST. BRAMPTON PLANT 150 ORENDA RD*** ***BRAMPTON CITY ON L6W 4K6*** ***SPL***

Ref No:	143977	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	7/22/1997	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	UNKNOWN	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	NOT ANTICIPATED	**Site Municipality:**	21101
Nature of Impact:		**Site Lot:**	
Receiving Medium:	LAND / WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	REG. OF PEEL
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/22/1997	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	UNKNOWN	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	LW. SANDERSON-UNK VOL OF LIQUID FOOD WASTE TO CB FROM GARBAGE TRUCK.		
Contaminant Qty:			

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28 *3 of 4* *NW/188.3* *216.8 / 2.00* ***263 QUEEN STREET EAST, BRAMPTON ON*** ***INC***

Incident No: 1559876

Incident ID:	
Attribute Category:	FS-Perform L1 Incident Insp
Status Code:	
Incident Location:	263 QUEEN STREET EAST, BRAMPTON - CO RELEASE
Drainage System:	
Sub Surface Contam.:	
Aff. Prop. Use Water:	
Contam. Migrated:	
Contact Natural Env.:	
Near Body of Water:	
Approx. Quant. Rel.:	
Equipment Model:	
Serial No:	
Residential App. Type:	
Commercial App. Type:	
Industrial App. Type:	
Institutional App. Type:	
Venting Type:	
Vent Connector Mater:	
Vent Chimney Mater:	
Pipeline Type:	
Pipeline Involved:	
Pipe Material:	
Depth Ground Cover:	
Regulator Location:	
Regulator Type:	
Operation Pressure:	
Liquid Prop Make:	
Liquid Prop Model:	
Liquid Prop Serial No:	
Equipment Type:	
Cylinder Capacity:	
Cylinder Capac. Units:	
Cylinder Material Type:	
Tank Capacity:	
Fuels Occurence Type:	CO Release
Fuel Type Involved:	Natural Gas
Date of Occurence:	2015/01/20 00:00:00
Time of Occurence:	17:39:00
Occur Insp Start Date:	2015/01/22 00:00:00
Any Health Impact:	No
Any Environmental Impact:	No
Was Service Interrupted:	Yes
Was Property Damaged:	No
Operation Type Involved:	Commercial (e.g. restaurant, business unit, etc)
Enforcement Policy:	NULL
Prc Escalation Required:	NULL
Task No:	5333228
Notes:	
Occurence Narrative:	Water heater installed in an unconditioned space
Tank Material Type:	
Tank Storage Type:	
Tank Location Type:	
Pump Flow Rate Capac:	
Liquid Prop Notes:	

28	***4 of 4***	***NW/188.3***	***216.8 / 2.00***	***Bayer Inc.*** ***Queens Center Plaza 263 Queen Street East*** ***Brampton ON L6W 4K6***	***GEN***

Generator No:	ON6299750	***PO Box No:***	
Status:		***Country:***	Canada
Approval Years:	2014	***Choice of Contact:***	CO_ADMIN
Contam. Facility:	No	***Co Admin:***	Grace Wong

MHSW Facility: No
Phone No Admin: 905-282-5301 Ext.
SIC Code: 414510
SIC Description: PHARMACEUTICALS AND PHARMACY SUPPLIES WHOLESALER-DISTRIBUTORS

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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29 | **1 of 1** | **ENE/157.2** | **215.3 / 0.46** | **30 Clark Blvd, Brampton ON L6W 1X3** | **EHS**

Order No: 20061023022
Status: C
Report Type: Complete Report
Report Date: 10/30/2006
Date Received: 10/23/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.737967
Y: 43.700427

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30 | **1 of 1** | **WSW/140.7** | **216.8 / 2.00** | **Brampton ON** | **WWIS**

Well ID: 7298265
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z273297
Tag: A227254
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src:
Date Received: 10/31/2017
Selected Flag: Yes
Abandonment Rec:
Contractor: 7366
Form Version: 7
Owner:
Street Name: 253 QUEEN ST E
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006786293
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/19/2017
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 216.175445
Elevrc:
Zone: 17
East83: 601326
North83: 4839176
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1006966571
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0
Formation End Depth:	3.9
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006966579
Layer:	2
Plug From:	1.5
Plug To:	3.9
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006966578
Layer:	1
Plug From:	0
Plug To:	1.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	9
Method Construction:	Driving
Other Method Construction:	

Pipe Information

Pipe ID:	1006966570
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006966574
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	2.4
Casing Diameter:	3.8
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006966575
Layer: 1
Slot: 10
Screen Top Depth: 2.4
Screen End Depth: 3.9
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4

Hole Diameter

Hole ID: 1006966572
Diameter: 10
Depth From: 0
Depth To: 3.9
Hole Depth UOM: m
Hole Diameter UOM: cm

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31 | ***1 of 1*** | ***NNW/178.2*** | ***217.1 / 2.29*** | ***The Corporation of The City of Brampton***
8 Rutherford Road
Brampton ON | ***GEN***

Generator No: ON8494131
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 913910
SIC Description:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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32 | ***1 of 4*** | ***ENE/161.8*** | ***214.8 / -0.04*** | ***ABLE TRUCK & CAR RENTALS***
19 CLARK BOULEVARD
BRAMPTON ON L6W 1X4 | ***GEN***

Generator No: ON2257300
Status:
Approval Years: 97
Contam. Facility:
MHSW Facility:
SIC Code: 9921
SIC Description: AUTO./TRUCK RENTAL

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

32 | ***2 of 4*** | ***ENE/161.8*** | ***214.8 / -0.04*** | ***ABLE TRUCK & CAR RENTALS***
19 CLARK BOULEVARD
BRAMPTON ON L6W 1X4 | ***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON2309200
Status:
Approval Years: 97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 3612
SIC Description: LUB. OIL & GREASE

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

32 | ***3 of 4*** | ***ENE/161.8*** | ***214.8 / -0.04*** | ***ABLE TRUCK & CAR REN(OUT OF BUSINESS)*** | ***GEN***
19 CLARK BOULEVARD
BRAMPTON ON L6W 1X4

Generator No: ON2257300
Status:
Approval Years: 98,99
Contam. Facility:
MHSW Facility:
SIC Code: 9921
SIC Description: AUTO./TRUCK RENTAL

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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32 | ***4 of 4*** | ***ENE/161.8*** | ***214.8 / -0.04*** | ***19 Clark Blvd*** | ***EHS***
Brampton ON L6W1X4

Order No: 20160627060
Status: C
Report Type: Standard Report
Report Date: 30-JUN-16
Date Received: 27-JUN-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.737572
Y: 43.700072

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33 | ***1 of 1*** | ***S/178.6*** | ***217.9 / 3.02*** | ***ON*** | ***BORE***

Borehole ID: 653073
OGF ID: 215553424
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JUN-1970
Static Water Level: 0.2
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 1.7
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 217
Elev Reliabil Note:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.697285
Longitude DD: -79.740216
UTM Zone: 17
Easting: 601515
Northing: 4839023
Location Accuracy:
Accuracy: Not Applicable

DEM Ground Elev m: 216
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218537999
Top Depth: 0
Bottom Depth: 1.5
Material Color: Brown
Material 1: Soil
Material 2: organic material
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SOIL,ORGANIC. BROWN,MOIST.

Mat Consistency:
Material Moisture: Moist
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: organic

Geology Stratum ID: 218538000
Top Depth: 1.5
Bottom Depth: 1.7
Material Color: Brown
Material 1: Till
Material 2: Silt
Material 3: Clay
Material 4: Boulders
Gsc Material Description:
Stratum Description: TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 713.5 FEET.E,AGE QUATERNA **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture: Moist
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period: Quaternary
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 237350 NTS_Sheet: 30M12G
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

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34 ***1 of 2*** ***NNW/180.7*** ***216.8 / 1.96*** ***The Corporation of The City of Brampton***
Buildings and property Management
8 Rutherford Road
Brampton ON L6W 3J1
GEN

Generator No: ON8494131
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

SIC Description:

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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34 ***2 of 2*** ***NNW/180.7*** ***216.8 / 1.96*** ***GEN***

The Corporation of The City of Brampton
Buildings and property Management
8 Rutherford Road
Brampton ON L6W 3J1

Generator No: ON8494131
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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35 ***1 of 1*** ***ENE/169.8*** ***214.6 / -0.22*** ***WWIS***

ON

Well ID: 7269281
Construction Date:
Primary Water Use: Monitoring and Test Hole
Sec. Water Use: 0
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: Z213278
Tag: A206162
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 8/17/2016
Selected Flag: Yes
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name:
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006217956
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation: 213.390167
Elevrc:
Zone: 17
East83: 601733
North83: 4839333

Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	7/12/2016	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006233280
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Other Materials:	CLAY
Mat3:	
Other Materials:	
Formation Top Depth:	6
Formation End Depth:	12
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006233279
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	6
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006233281
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Other Materials:	CLAY
Mat3:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	15
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233291
Layer:	3
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233289
Layer:	1
Plug From:	15
Plug To:	4
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233290
Layer:	2
Plug From:	4
Plug To:	0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1006233278
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006233284
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	5
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006233285
Layer:	1
Slot:	.1
Screen Top Depth:	5
Screen End Depth:	15

Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Hole Diameter

Hole ID:	1006233282
Diameter:	6
Depth From:	0
Depth To:	15
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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36 ***1 of 1*** ***ESE/193.9*** ***212.8 / -2.05*** ***Brampton ON*** ***WWIS***

Well ID:	7197692	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	2/25/2013
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7472
Casing Material:		**Form Version:**	7
Audit No:	Z166637	**Owner:**	
Tag:	A144250	**Street Name:**	52 RITHERFORD RD. S
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004256731	**Elevation:**	213.86679
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601746
Code OB Desc:		**North83:**	4839171
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	2/7/2013	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004892340
Layer:	1
Color:	6

General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.9
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892341
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	34
Other Materials:	TILL
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	0.9
Formation End Depth:	2.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892342
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892349
Layer:	1
Plug From:	0
Plug To:	0.9
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892350
Layer:	2
Plug From:	0.9
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1004892339
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004892345
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.5
Casing Diameter: 5.2
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004892346
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Hole Diameter

Hole ID: 1004892343
Diameter: 15
Depth From: 0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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37 ***1 of 1*** ***ESE/200.6*** ***213.2 / -1.62*** ***Brampton ON*** ***WWIS***

Well ID: 7197693
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z166638
Tag: A144251

Data Entry Status:
Data Src:
Date Received: 2/25/2013
Selected Flag: Yes
Abandonment Rec:
Contractor: 7472
Form Version: 7
Owner:
Street Name: 52 RUTHERFORD RD. S

Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004256782	***Elevation:***	214.15306
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601740
Code OB Desc:		***North83:***	4839149
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	2/7/2013	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004892365
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.9
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892366
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	34
Other Materials:	TILL
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	0.9
Formation End Depth:	2.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892367
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892375
Layer:	2
Plug From:	0.9
Plug To:	4.5
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892374
Layer:	1
Plug From:	0
Plug To:	0.9
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1004892364
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004892370
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	5.2
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004892371
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Hole Diameter

Hole ID: 1004892368
Diameter: 15
Depth From: 0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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38 ***1 of 1*** ***E/180.3*** ***213.8 / -1.04*** ***Brampton ON*** ***WWIS***

Well ID: 7269283
Construction Date:
Primary Water Use: Monitoring and Test Hole
Sec. Water Use: 0
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: Z235166
Tag: A184956
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 8/17/2016
Selected Flag: Yes
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name: 19 CLARK BLVD.
County: PEEL
Municipality: BRAMPTON CITY
Site Info: WKQ-009174 A0-A02
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006217962
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 7/12/2016
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation: 214.151428
Elevrc:
Zone: 17
East83: 601754
North83: 4839300
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1006233309
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Other Materials:	CLAY
Mat3:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	17
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006233307
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	6
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006233308
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Other Materials:	CLAY
Mat3:	
Other Materials:	
Formation Top Depth:	6
Formation End Depth:	12
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233318
Layer:	2
Plug From:	6
Plug To:	0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233317
Layer:	1
Plug From:	17
Plug To:	6
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006233319
Layer:	3
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1006233306
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006233312
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	7
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006233313
Layer:	1
Slot:	.1
Screen Top Depth:	7
Screen End Depth:	17
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Hole Diameter

Hole ID:	1006233310
Diameter:	6
Depth From:	0
Depth To:	17
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

39 | 1 of 1 | W/165.9 | 216.8 / 2.00 | Brampton ON | WWIS

Well ID:	7298266	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/31/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7366
Casing Material:		**Form Version:**	7
Audit No:	Z273295	**Owner:**	
Tag:	A227259	**Street Name:**	253 QUEEN ST E
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786296	**Elevation:**	216.309265
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601300
Code OB Desc:		**North83:**	4839182
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/19/2017	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006963735
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0

Formation End Depth:	381
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963742
Layer:	1
Plug From:	0
Plug To:	1.5
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963743
Layer:	2
Plug From:	1.5
Plug To:	381
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1006963734
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006963738
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	2.29
Casing Diameter:	3.8
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006963739
Layer:	1
Slot:	10
Screen Top Depth:	2.29
Screen End Depth:	381
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4

Hole Diameter

Hole ID:	1006963736
Diameter:	10
Depth From:	0
Depth To:	381
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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40 | ***1 of 1*** | ***NE/182.8*** | ***215.8 / 0.99*** | ***ON*** | ***WWIS***

Well ID:	7265896	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	7/4/2016
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Monitoring and Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7241
Casing Material:		***Form Version:***	7
Audit No:	Z233477	***Owner:***	
Tag:	A185059	***Street Name:***	30 CARK BLVD.
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006101538	***Elevation:***	214.786636
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601690
Code OB Desc:		***North83:***	4839411
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	6/7/2016	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006123630
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	

Other Materials:
Formation Top Depth: 3
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006123631
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006123629
Layer: 1
Color: 8
General Color: BLACK
Mat1:
Most Common Material:
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123641
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123639
Layer: 1
Plug From: 18
Plug To: 7
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123640
Layer: 2

Plug From: 7
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1006123628
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006123634
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 8
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006123635
Layer: 1
Slot: .1
Screen Top Depth: 8
Screen End Depth: 18
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Hole Diameter

Hole ID: 1006123632
Diameter: 8
Depth From: 0
Depth To: 18
Hole Depth UOM: ft
Hole Diameter UOM: inch

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41 ***1 of 1*** ***NE/182.6*** ***216.0 / 1.13*** ***ON*** ***WWIS***

Well ID:	7265897	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	7/4/2016
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Monitoring and Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7241

Casing Material:		***Form Version:***	7
Audit No:	Z233478	***Owner:***	
Tag:	A185058	***Street Name:***	30 CLAK BLVD.
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006099713	***Elevation:***	215.491531
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601669
Code OB Desc:		***North83:***	4839431
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	6/7/2016	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006123674
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	
Most Common Material:	
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	3
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006123675
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	
Other Materials:	

Formation Top Depth: 3
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006123676
Layer: 3
Color: 3
General Color: BLUE
Mat1: 28
Most Common Material: SAND
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 18
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123684
Layer: 1
Plug From: 18
Plug To: 7
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123685
Layer: 2
Plug From: 7
Plug To: 0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006123686
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1006123673
Casing No: 0
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 1006123679
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 8
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006123680
Layer: 1
Slot: .1
Screen Top Depth: 8
Screen End Depth: 18
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Hole Diameter

Hole ID: 1006123677
Diameter: 8
Depth From: 0
Depth To: 18
Hole Depth UOM: ft
Hole Diameter UOM: inch

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42 | ***1 of 1*** | ***E/195.2*** | ***212.9 / -1.96*** | ***CITY OF BRAMPTON***
52 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J5 | ***GEN***

Generator No: ON6925110
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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43 | ***1 of 1*** | ***SW/174.1*** | ***217.8 / 2.95*** | ***ON*** | ***BORE***

Borehole ID:	653071	**Inclin FLG:**	No
OGF ID:	215553422	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1970	**Municipality:**	
Static Water Level:	0.1	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.697576
Total Depth m:	1.2	**Longitude DD:**	-79.742071
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	601365
Drill Method:	Power auger	**Northing:**	4839053
Orig Ground Elev m:	218	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	217		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218537995	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	Moist
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	organic
Gsc Material Description:			
Stratum Description:	SOIL,ORGANIC. BROWN,MOIST.		

Geology Stratum ID:	218537996	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	Moist
Bottom Depth:	1.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:	Boulders	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 716.8 FEET.E,AGE QUATERNA **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 237330 NTS_Sheet: 30M12G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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44 **1 of 9** **ENE/195.5** **214.5 / -0.39** **SIGNAGE SYSTEMS**
21 CLARK BLVD
BRAMPTON ON L6W 1X4 **SCT**

Established: 1989
Plant Size (ft²): 19500
Employment: 30

--Details--
Description: SIGNS AND ADVERTISING SPECIALTIES
SIC/NAICS Code: 3993

Description: Sign Manufacturing
SIC/NAICS Code: 339950

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44 **2 of 9** **ENE/195.5** **214.5 / -0.39** **Signage Systems - Div. of 865331 Ontario Limited**
21 Clark Blvd
Brampton ON L6W 1X4 **SCT**

Established: 1989
Plant Size (ft²): 19500
Employment: 30

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Sign Manufacturing
SIC/NAICS Code: 339950

---

44 **3 of 9** **ENE/195.5** **214.5 / -0.39** **Golden Automobiles & Collision Centre Limited**
21 Clark Boulevard Brampton Ontario L6W 1X4
Brampton
ON **EBR**

EBR Registry No: IA03E0873
Ministry Ref No: 0302-5MZGNH
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 02, 2004
Proposal Date: June 17, 2003
Year: 2003
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Golden Automobiles & Collision Centre Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: Clark Boulevard , 21, Brampton Ontario, L6W 1X4
Comment Period:
URL:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Site Location Details:

21 Clark Boulevard Brampton Ontario L6W 1X4 Brampton

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44 ***4 of 9*** ***ENE/195.5*** ***214.5 / -0.39*** ***SIGNAGE SYSTEMS, DIV. OF 865331 ONT LTD*** ***GEN***
21 CLARK BLVD.
BRAMPTON ON L6W 1X4

Generator No:	ON2022100	***PO Box No:***	
Status:		***Country:***	
Approval Years:	95,96,97,98	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	3971		
SIC Description:	SIGN & DISPLAY IND.		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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44 ***5 of 9*** ***ENE/195.5*** ***214.5 / -0.39*** ***SIGNAGE SYSTEMS*** ***GEN***
21 CLARK BOULEVARD
BRAMPTON ON L6W 1X4

Generator No:	ON2022100	***PO Box No:***	
Status:		***Country:***	
Approval Years:	99,00,01	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	3971		
SIC Description:	SIGN & DISPLAY IND.		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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44 ***6 of 9*** ***ENE/195.5*** ***214.5 / -0.39*** ***865331 ONTARIO LIMITED*** ***GEN***
21 CLARKE BLVD`
BRAMPTON ON L6W 1X4

Generator No:	ON2022100	***PO Box No:***	
Status:		***Country:***	
Approval Years:	02,03,04	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Description:					

44 **7 of 9** **ENE/195.5** **214.5 / -0.39** **Golden Automobiles & Collision Centre Limited** **CA**
21 Clark Boulevard
Brampton ON L6W 1X4

Certificate #:	7198-5WCK69
Application Year:	2004
Issue Date:	3/26/2004
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

44 **8 of 9** **ENE/195.5** **214.5 / -0.39** **Golden Automobiles & Collision Centre Limited** **ECA**
21 Clark Boulevard
Brampton ON L6W 1X4

Approval No:	7198-5WCK69	**MOE District:**	Halton-Peel
Approval Date:	2004-03-26	**City:**	
Status:	Approved	**Longitude:**	-79.73697
Record Type:	ECA	**Latitude:**	43.699985999999996
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Toronto	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Address:	21 Clark Boulevard		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/0302-5MZGNH-14.pdf		

44 **9 of 9** **ENE/195.5** **214.5 / -0.39** **Alectra Utilities Corporation** **SPL**
21 Clark Blvd
Brampton ON

Ref No:	2211-AMNJ5T	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	5/24/2017	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Electric Power Generation
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	TRANSFORMER OIL (N.O.S.)	**Site Address:**	21 Clark Blvd
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Brampton
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4839327.39
MOE Response:		**Easting:**	601770.76
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	5/24/2017	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	Operator/Human Error	**Source Type:**	Transformer
Site Name:	MVA Site: hydro poles<UNOFFICIAL>		

Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Incident Summary: Transformer pole hit by dump truck. Oil on road/cb.
Contaminant Qty: 400 L

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45 | **1 of 1** | **WNW/233.6** | **217.8 / 3.00** | **263 queen street Brampton ON L6W 3J3** | **EHS**

Order No: 20190521073
Status: C
Report Type: Custom Report
Report Date: 27-MAY-19
Date Received: 21-MAY-19
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .2
X: -79.742534
Y: 43.700621

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46 | **1 of 1** | **E/208.6** | **212.8 / -2.07** | **Brampton ON** | **WWIS**

Well ID: 7269282
Construction Date:
Primary Water Use: Monitoring and Test Hole
Sec. Water Use: 0
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: Z235167
Tag: A206181
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src:
Date Received: 8/17/2016
Selected Flag: Yes
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name: 19 CLARK BLVD.
County: PEEL
Municipality: BRAMPTON CITY
Site Info: WKQ-009174 A0-A02
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006217959
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 7/12/2016
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 212.203994
Elevrc:
Zone: 17
East83: 601785
North83: 4839250
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006233293
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006233295
Layer: 3
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 05
Other Materials: CLAY
Mat3: 34
Other Materials: TILL
Formation Top Depth: 12
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006233294
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 05
Other Materials: CLAY
Mat3: 34
Other Materials: TILL
Formation Top Depth: 6
Formation End Depth: 12
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006233305
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006233303

Layer: 1
Plug From: 17
Plug To: 6
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006233304
Layer: 2
Plug From: 6
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1006233292
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006233298
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 7
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006233299
Layer: 1
Slot: .10
Screen Top Depth: 7
Screen End Depth: 17
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Hole Diameter

Hole ID: 1006233296
Diameter: 6
Depth From: 0
Depth To: 17
Hole Depth UOM: ft
Hole Diameter UOM: inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	1 of 1	E/219.1	212.2 / -2.65	BRAMPTON ON	WWIS

Well ID:	7251166	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	10/30/2015
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z212207	**Owner:**	
Tag:	A188694	**Street Name:**	98-100 RUTHERFORD RD.
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	WKQ-008321 A0-A012
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005773912	**Elevation:**	212.560745
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601785
Code OB Desc:		**North83:**	4839197
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/5/2015	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005797835
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 1005797836
Layer: 2
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 7
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005797837
Layer: 3
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2: 66
Other Materials: DENSE
Mat3:
Other Materials:
Formation Top Depth: 17
Formation End Depth: 20
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797847
Layer: 2
Plug From: 1
Plug To: 9
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797848
Layer: 3
Plug From: 9
Plug To: 20
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797846
Layer: 1
Plug From: 0
Plug To: 1
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1005797834
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005797841
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005797842
Layer: 1
Slot: 10
Screen Top Depth: 10
Screen End Depth: 20
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Hole Diameter

Hole ID: 1005797839
Diameter: 6
Depth From: 1
Depth To: 20
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1005797838
Diameter: 8
Depth From: 0
Depth To: 1
Hole Depth UOM: ft
Hole Diameter UOM: inch

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48 ***1 of 1*** ***W/200.6*** ***217.2 / 2.34*** ***BRAMPTON ON*** ***WWIS***

Well ID: 7245993
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Data Entry Status:
Data Src:
Date Received: 8/5/2015
Selected Flag: Yes

Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7366
Casing Material:		***Form Version:***	7
Audit No:	Z207187	***Owner:***	
Tag:	A181015	***Street Name:***	253 QUEEN ST. E
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005540593	***Elevation:***	216.734039
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601265
Code OB Desc:		***North83:***	4839204
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	7/28/2015	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005687737
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	2.7
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005687738
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	
Other Materials:	

Mat3:
Other Materials:
Formation Top Depth: 2.7
Formation End Depth: 4.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005687745
Layer: 1
Plug From: 0
Plug To: 0.9
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005687746
Layer: 2
Plug From: 0.9
Plug To: 4.2
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1005687736
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005687741
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.2
Casing Diameter: 3.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005687742
Layer: 1
Slot: 10
Screen Top Depth: 1.2
Screen End Depth: 4.2
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm

Screen Diameter: 4

Hole Diameter

Hole ID: 1005687739
Diameter: 10
Depth From: 0
Depth To: 4.2
Hole Depth UOM: m
Hole Diameter UOM: cm

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49 | ***1 of 1*** | ***ESE/228.0*** | ***212.8 / -2.04*** | ***CITY OF BRAMPTON***
52 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J5 | ***GEN***

Generator No: ON6925110
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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50 | ***1 of 1*** | ***NE/220.8*** | ***216.9 / 2.05*** | ***30 Clark Boulevard***
Brampton ON | ***EHS***

Order No: 20160407047
Status: C
Report Type: Custom Report
Report Date: 12-APR-16
Date Received: 07-APR-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.73799
Y: 43.701247

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51 | ***1 of 2*** | ***N/222.4*** | ***215.8 / 0.92*** | ***SB Simpson Group Inc***
16 Rutherford South
Brampton ON L6W 3J1 | ***GEN***

Generator No: ON8327104
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Desc: Amines

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
51	2 of 2	N/222.4	215.8 / 0.92	SB Simpson Group Inc 16 Rutherford South Brampton ON L6W 3J1	GEN

Generator No: ON8327104
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 T
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 H
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 268 C
Waste Class Desc: Amines

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
52	1 of 1	ESE/253.9	214.4 / -0.49	BRAMPTON ON	WWIS

Well ID:	7044752	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	6/14/2007
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	6607
Casing Material:		**Form Version:**	3
Audit No:	Z70437	**Owner:**	
Tag:	A054714	**Street Name:**	21 CLARK BLVD
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11767086	**Elevation:**	214.031387
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	601762
Code OB Desc:	Overburden	**North83:**	4839092
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	3/29/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	933103838
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	28
Other Materials:	SAND
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933103839

Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Other Materials:	CLAY
Mat3:	
Other Materials:	
Formation Top Depth:	1.5
Formation End Depth:	6
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933320786
Layer:	1
Plug From:	0
Plug To:	0.3
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933320787
Layer:	2
Plug From:	0.3
Plug To:	3
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11774776
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930900617
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	3
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	933424902

Layer: 1
Slot: 20
Screen Top Depth: 3
Screen End Depth: 6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Water Details

Water ID: 934086823
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 4.5
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11853855
Diameter: 21
Depth From: 0
Depth To: 6
Hole Depth UOM: m
Hole Diameter UOM: cm

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53 | **1 of 1** | **NNW/248.9** | **218.5 / 3.61** | **MANUEL FILIPE, BRAMPTON AUTO CENTRE LTD.**
6 RUTHERFORD ROAD SOUTH
BRAMPTON CITY ON L6W 3J1 | **CA**

Certificate #: 8-3641-95-966
Application Year: 95
Issue Date: 2/2/96
Approval Type: Industrial air
Status: Received in 1995, Issued in 1996
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: WASTE OIL FURNACE MODEL CB-4000
Contaminants: Suspended Particulate Matter, Sulphur Dioxide, Nitrogen Oxides, Zinc
Emission Control:

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54 | **1 of 1** | **W/222.4** | **217.8 / 3.00** | **253 Queen Street East**
Brampton ON L6W 2B8 | **EHS**

Order No: 20180912059
Status: C
Report Type: Custom Report
Report Date: 19-SEP-18
Date Received: 12-SEP-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.743549
Y: 43.69894

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55 | **1 of 1** | **W/231.4** | **217.8 / 3.00** | **BRAMPTON ON** | **WWIS**

Well ID:	7245992	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	8/5/2015
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7366
Casing Material:		***Form Version:***	7
Audit No:	Z207186	***Owner:***	
Tag:	A181012	***Street Name:***	253 QUEEN ST. E
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005540590	***Elevation:***	217.538818
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601237
Code OB Desc:		***North83:***	4839232
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	7/28/2015	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005687088
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	66
Other Materials:	DENSE
Mat3:	
Other Materials:	
Formation Top Depth:	2.7
Formation End Depth:	4.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005687087
Layer:	1
Color:	6

General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	77
Other Materials:	LOOSE
Formation Top Depth:	0
Formation End Depth:	2.7
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005687095
Layer:	1
Plug From:	0
Plug To:	1.2
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005687096
Layer:	2
Plug From:	1.2
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	9
Method Construction:	Driving
Other Method Construction:	

Pipe Information

Pipe ID:	1005687086
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005687091
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	3.8
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1005687092
Layer:	1
Slot:	10

Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4

Hole Diameter

Hole ID:	1005687089
Diameter:	10
Depth From:	0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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56 | ***1 of 1*** | ***ENE/235.4*** | ***215.9 / 1.09*** | ***lot 5 con 2 Brampton ON*** | ***WWIS***

Well ID:	7141864	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Not Used	**Date Received:**	3/22/2010
Sec. Water Use:	Monitoring	**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7147
Casing Material:		**Form Version:**	7
Audit No:	Z112335	**Owner:**	
Tag:	A093016	**Street Name:**	25 CLARK BOULEVARD
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	005
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	HS E
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002951743	**Elevation:**	213.894531
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601777
Code OB Desc:		**North83:**	4839390
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	3/13/2010	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1003152159

Layer:	4
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	34
Other Materials:	TILL
Mat3:	
Other Materials:	
Formation Top Depth:	3
Formation End Depth:	3.35
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003152156
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.2
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003152157
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.2
Formation End Depth:	2.1
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003152158
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	2.1
Formation End Depth:	3
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 1003152164
Layer: 4
Plug From:
Plug To: 3.35
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003152163
Layer: 3
Plug From: 1.5
Plug To: 3.35
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003152161
Layer: 1
Plug From: 0
Plug To: 0.2
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003152162
Layer: 2
Plug From: 0.2
Plug To: 1.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: PIONJAR

Pipe Information

Pipe ID: 1003152155
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003152166
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.8

Casing Diameter:	3.2
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1003152167
Layer:	1
Slot:	.01
Screen Top Depth:	1.8
Screen End Depth:	3.35
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.3

Water Details

Water ID:	1003152165
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	2.1
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1003152160
Diameter:	5
Depth From:	0
Depth To:	3.35
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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57 | ***1 of 2*** | ***NW/276.1*** | ***217.8 / 3.00*** | ***261 QUEEN STREET EAST, BRAMPTON ON*** | ***INC***

Incident No:	248256
Incident ID:	2399614
Attribute Category:	FS-Incident
Status Code:	Causal Analysis Complete
Incident Location:	261 QUEEN STREET EAST, BRAMPTON - 1" PIPELINE HIT
Drainage System:	
Sub Surface Contam.:	
Aff. Prop. Use Water:	
Contam. Migrated:	
Contact Natural Env.:	
Near Body of Water:	
Approx. Quant. Rel.:	
Equipment Model:	
Serial No:	
Residential App. Type:	
Commercial App. Type:	
Industrial App. Type:	
Institutional App. Type:	
Venting Type:	
Vent Connector Mater:	
Vent Chimney Mater:	
Pipeline Type:	Service / Riser Distribution Pipeline
Pipeline Involved:	
Pipe Material:	Plastic
Depth Ground Cover:	3'

Regulator Location:	Outside
Regulator Type:	Service Regulator (up to 60 psi intake)
Operation Pressure:	IP
Liquid Prop Make:	
Liquid Prop Model:	
Liquid Prop Serial No:	
Equipment Type:	
Cylinder Capacity:	
Cylinder Capac. Units:	
Cylinder Material Type:	
Tank Capacity:	
Fuels Occurence Type:	
Fuel Type Involved:	
Date of Occurence:	
Time of Occurence:	
Occur Insp Start Date:	
Any Health Impact:	
Any Environmental Impact:	
Was Service Interrupted:	
Was Property Damaged:	
Operation Type Involved:	
Enforcement Policy:	
Prc Escalation Required:	
Task No:	
Notes:	
Occurence Narrative:	
Tank Material Type:	
Tank Storage Type:	
Tank Location Type:	
Pump Flow Rate Capac:	
Liquid Prop Notes:	

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57 | ***2 of 2*** | ***NW/276.1*** | ***217.8 / 3.00*** | ***261 Queen Street East Brampton ON*** | ***EHS***

Order No:	20121220034	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	04-JAN-13	**Search Radius (km):**	.25
Date Received:	20-DEC-12	**X:**	-79.742554
Previous Site Name:		**Y:**	43.701193
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

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58 | ***1 of 1*** | ***ESE/260.6*** | ***212.9 / -1.94*** | ***Brampton ON*** | ***WWIS***

Well ID:	7197691	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	2/25/2013
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7472
Casing Material:		**Form Version:**	7
Audit No:	Z166636	**Owner:**	
Tag:	A144249	**Street Name:**	52 RUTHERFORD RD. S
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1004256728	***Elevation:***	213.248977
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601804
Code OB Desc:		***North83:***	4839138
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	2/7/2013	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004892285
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Other Materials:	GRAVEL
Mat3:	34
Other Materials:	TILL
Formation Top Depth:	0.9
Formation End Depth:	2.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892286
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892284

Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.9
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892293
Layer:	1
Plug From:	0
Plug To:	0.9
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892294
Layer:	2
Plug From:	0.9
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1004892283
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004892289
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	5.2
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004892290

Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.4

Hole Diameter

Hole ID:	1004892287
Diameter:	15
Depth From:	0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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59 ***1 of 1*** ***NW/264.0*** ***218.8 / 4.00*** ***Toronto ON*** ***WWIS***

Well ID:	7240333	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	4/22/2015
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Monitoring and Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z208021	**Owner:**	
Tag:	A180328	**Street Name:**	265 QUEEN ST EAST
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005327774	**Elevation:**	218.214477
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601381
Code OB Desc:		**North83:**	4839501
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	4/6/2015	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1005605240
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005605241
Layer: 4
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Other Materials:
Mat3: 92
Other Materials: WEATHERED
Formation Top Depth: 15
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005605239
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0.333
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005605238
Layer: 1
Color: 8
General Color: BLACK
Mat1: 27
Most Common Material: OTHER
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0

Formation End Depth: 0.333
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005605249
Layer: 1
Plug From: 20
Plug To: 9
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005605251
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005605250
Layer: 2
Plug From: 9
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1005605237
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005605244
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005605245

Layer:	1
Slot:	.10
Screen Top Depth:	10
Screen End Depth:	20
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Hole Diameter

Hole ID:	1005605242
Diameter:	6
Depth From:	0
Depth To:	20
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

60 ***1 of 1*** ***SSW/242.2*** ***218.8 / 4.00*** ***ON*** ***BORE***

Borehole ID:	653077	**Inclin FLG:**	No
OGF ID:	215553428	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1970	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.696663
Total Depth m:	1.8	**Longitude DD:**	-79.740973
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	601455
Drill Method:	Power auger	**Northing:**	4838953
Orig Ground Elev m:	219	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	218		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218538008	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	Moist
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:	Boulders	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 719.5 FEET.		

Geology Stratum ID:	218538007	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	Moist
Bottom Depth:	.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	organic

Gsc Material Description:
Stratum Description: SOIL,ORGANIC. BROWN,MOIST.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 237390 NTS_Sheet: 30M12G
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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61 | ***1 of 1*** | ***NW/265.3*** | ***218.8 / 4.00*** | ***Toronto ON*** | ***WWIS***

Well ID:	7240334	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	4/22/2015
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Monitoring and Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z208020	**Owner:**	
Tag:	A180156	**Street Name:**	265 QUEEN ST EAST
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005327777	**Elevation:**	218.24945
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601384
Code OB Desc:		**North83:**	4839505
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	4/6/2015	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1005605307
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	1
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005605308
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	05
Other Materials:	CLAY
Formation Top Depth:	1
Formation End Depth:	14
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005605309
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Other Materials:	
Mat3:	92
Other Materials:	WEATHERED
Formation Top Depth:	14
Formation End Depth:	20
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005605318
Layer:	2
Plug From:	9
Plug To:	0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005605319
Layer:	3
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005605317
Layer:	1
Plug From:	20
Plug To:	9
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1005605306
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005605312
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	10
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005605313
Layer:	1
Slot:	.10
Screen Top Depth:	10
Screen End Depth:	20
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Hole Diameter

Hole ID:	1005605310
Diameter:	6
Depth From:	0
Depth To:	20
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

62 **1 of 1** **E/252.6** **212.8 / -2.08** **Brampton ON** **WWIS**

Well ID:	7113407	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/16/2008
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	6809
Casing Material:		**Form Version:**	5
Audit No:	M02949	**Owner:**	
Tag:	A066790	**Street Name:**	52 RUTHERFORD RD S
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002689657	**Elevation:**	216.407882
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601866
Code OB Desc:		**North83:**	4839283
Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	8/12/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002689661
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:

Method Construction Code:
Method Construction:
Other Method Construction: AUGER

Pipe Information

Pipe ID: 1002689662
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002689664
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 5
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1002689663
Layer:
Slot:
Screen Top Depth: 5
Screen End Depth: 15
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002689665
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002689659
Diameter: 8
Depth From:
Depth To: 15
Hole Depth UOM: ft
Hole Diameter UOM: inch

Bore Hole Information

Bore Hole ID:	1001838516	***Elevation:***	212.830612
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601829
Code OB Desc:		***North83:***	4839249
Open Hole:	N	***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	8/12/2008	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002689667
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	01
Other Materials:	FILL
Formation Top Depth:	0
Formation End Depth:	5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002689668
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Other Materials:	
Mat3:	84
Other Materials:	SILTY
Formation Top Depth:	5
Formation End Depth:	15
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1002689671
Layer:	2
Plug From:	1
Plug To:	4
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1002689670
Layer:	1
Plug From:	0
Plug To:	1
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1002689672
Layer:	3
Plug From:	4
Plug To:	15
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1002689666
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002689674
Layer:	2
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	5
Depth To:	15
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	1002689673
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	5
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1002689675
Layer:	1

Slot:	.01
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2

Hole Diameter

Hole ID:	1002689669
Diameter:	8.25
Depth From:	0
Depth To:	15
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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63 | ***1 of 4*** | ***SSW/250.9*** | ***218.8 / 4.00*** | ***V R FURNITURE INC***
34 HANSEN RD S
BRAMPTON ON L6W 3H4 | ***SCT***

Established:	1987
Plant Size (ft²):	0
Employment:	110

--Details--

Description:	WOOD HOUSEHOLD FURNITURE, EXCEPT UPHOLSTERED
SIC/NAICS Code:	2511
Description:	Other Wood Household Furniture Manufacturing
SIC/NAICS Code:	337123

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63 | ***2 of 4*** | ***SSW/250.9*** | ***218.8 / 4.00*** | ***V R Furniture Inc.***
34 Hansen Rd S
Brampton ON L6W 3H4 | ***SCT***

Established:	1987
Plant Size (ft²):	
Employment:	230

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63 | ***3 of 4*** | ***SSW/250.9*** | ***218.8 / 4.00*** | ***Roberts Company Canada Ltd.***
34 Hansen Road South
Brampton ON L6W3H4 | ***NPRI***

NPRI ID:	28619	**Org ID:**	106780
Other ID:		**Submit Date:**	6/13/2016
No Other ID:		**Last Modified:**	11/18/2016 8:28:05 AM
Track ID:	137658	**Contact ID:**	242259
Report ID:	71216	**Cont Type:**	MEM
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	Ravi
Report Year:	2015	**Cont Last Name:**	Williams-Singh
Not-Current Rpt?:	No	**Contact Position:**	Director-Chief Administrative Officer
Yr of Last Filed Rpt:		**Contact Fax:**	9057911998
Fac ID:	238237	**Contact Ph.:**	9057914444
Fac Name:	Roberts Company Canada Ltd.	**Cont Area Code:**	905
Fac Address1:	34 Hansen Road South	**Contact Tel.:**	57914444
Fac Address2:		**Contact Ext.:**	222
Fac Postal Zip:	L6W3H4	**Cont Fax Area Cde:**	905
Facility Lat:	43.69596	**Contact Fax:**	57911998

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Facility Long:	-79.74146	**Contact Email:**	rwilliams@qep.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	19	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3255		
NAICS 4 Description:	Paint, coating and adhesive manufacturing		
NAICS Code (6 digit):	325520		
NAICS 6 Description:	Adhesive manufacturing		

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63 ***4 of 4*** ***SSW/250.9*** ***218.8 / 4.00*** ***34 Hanson Road South Brampton ON*** ***EHS***

Order No:	20170921136	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	27-SEP-17	**Search Radius (km):**	.25
Date Received:	21-SEP-17	**X:**	-79.740784
Previous Site Name:		**Y:**	43.696581
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

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64 ***1 of 1*** ***SW/236.2*** ***218.8 / 4.00*** ***ON*** ***BORE***

Borehole ID:	653075	**Inclin FLG:**	No
OGF ID:	215553426	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.696853
Total Depth m:	1.8	**Longitude DD:**	-79.741838
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	601385
Drill Method:	Power auger	**Northing:**	4838973
Orig Ground Elev m:	219	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	218		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218538003	**Mat Consistency:**	

Top Depth:	0	**Material Moisture:**	Moist
Bottom Depth:	.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	organic
Gsc Material Description:			
Stratum Description:	SOIL,ORGANIC. BROWN,MOIST.		

Geology Stratum ID:	218538004	**Mat Consistency:**	
Top Depth:	.7	**Material Moisture:**	Moist
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:	Boulders	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY. LE A **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 237370 NTS_Sheet: 30M12G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

65 ***1 of 1*** ***W/249.2*** ***217.8 / 3.00*** ***Brampton ON*** ***WWIS***

Well ID:	7298268	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/31/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7366
Casing Material:		**Form Version:**	7
Audit No:	Z273298	**Owner:**	
Tag:	A227256	**Street Name:**	253 QUEEN ST E
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	

Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

Bore Hole Information

Bore Hole ID:	1006786302	***Elevation:***	217.909637
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601220
Code OB Desc:		***North83:***	4839238
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/19/2017	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006963755
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0
Formation End Depth:	3.9
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963763
Layer:	2
Plug From:	1.5
Plug To:	3.9
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963762
Layer:	1
Plug From:	0
Plug To:	1.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	9
Method Construction:	Driving

Other Method Construction:

Pipe Information

Pipe ID: 1006963754
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006963758
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To:
Casing Diameter: 3.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006963759
Layer: 1
Slot: 10
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4

Hole Diameter

Hole ID: 1006963756
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

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66 ***1 of 1*** ***E/266.0*** ***211.8 / -3.06*** ***Brampton ON*** ***WWIS***

Well ID: 7197690
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z166635
Tag: A144248
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:

Data Entry Status:
Data Src:
Date Received: 2/25/2013
Selected Flag: Yes
Abandonment Rec:
Contractor: 7472
Form Version: 7
Owner:
Street Name: 52 RUTHERFORD RD. S
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:

Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1004256725	***Elevation:***	212.319747
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601827
Code OB Desc:		***North83:***	4839175
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	2/7/2013	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004892268
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892267
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0.9
Formation End Depth:	2.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004892266
Layer:	1
Color:	6

General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.9
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892276
Layer:	2
Plug From:	0.9
Plug To:	4.5
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004892275
Layer:	1
Plug From:	0
Plug To:	0.9
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1004892265
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004892271
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	5.2
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004892272
Layer:	1
Slot:	10

Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.4

Hole Diameter

Hole ID:	1004892269
Diameter:	15
Depth From:	0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

67 ***1 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***Bramvet Ltd*** ***GEN***
265 queen St East
Brampton ON L6W 2C2

Generator No:	ON3401035	**PO Box No:**	
Status:		**Country:**	
Approval Years:	06,07,08	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	541940		
SIC Description:	Veterinary Services		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

67 ***2 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***Bramvet Ltd*** ***GEN***
265 queen St East
Brampton ON L6W 2C2

Generator No:	ON3401035	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2009	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	541940		
SIC Description:	Veterinary Services		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

67 ***3 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***Bramvet Ltd*** ***GEN***
265 queen St East
Brampton ON L6W 2C2

Generator No:	ON3401035	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	541940		
SIC Description:	Veterinary Services		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 | ***4 of 11*** | ***NW/283.0*** | ***218.8 / 4.00*** | ***Bramvet Ltd*** ***265 queen St East*** ***Brampton ON L6W 2C2*** | ***GEN***

Generator No: ON3401035
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 541940
SIC Description: Veterinary Services

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 | ***5 of 11*** | ***NW/283.0*** | ***218.8 / 4.00*** | ***Bramvet Ltd*** ***265 queen St East*** ***Brampton ON L6W 2C2*** | ***GEN***

Generator No: ON3401035
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 541940
SIC Description: Veterinary Services

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 | ***6 of 11*** | ***NW/283.0*** | ***218.8 / 4.00*** | ***Bramvet Ltd*** ***265 queen St East*** ***Brampton ON*** | ***GEN***

Generator No: ON3401035
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 541940
SIC Description: VETERINARY SERVICES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 | ***7 of 11*** | ***NW/283.0*** | ***218.8 / 4.00*** | ***Brampton Veterinary Hospital Professional Corp*** ***265 queen St East*** | ***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Brampton ON L6W 2C2

Generator No: ON3401035
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 541940
SIC Description: VETERINARY SERVICES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 ***8 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***GEN***

Brampton Veterinary Hospital Professional Corp
265 queen St East
Brampton ON L6W 2C2

Generator No: ON3401035
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 541940
SIC Description: VETERINARY SERVICES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 ***9 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***GEN***

Brampton Veterinary Hospital Professional Corp
265 queen St East
Brampton ON L6W 2C2

Generator No: ON3401035
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 541940
SIC Description: VETERINARY SERVICES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

67 ***10 of 11*** ***NW/283.0*** ***218.8 / 4.00*** ***GEN***

Brampton Veterinary Hospital Professional Corp
265 queen St East
Brampton ON L6W 2C2

Generator No: ON3401035
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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67 | ***11 of 11*** | ***NW/283.0*** | ***218.8 / 4.00*** | ***Brampton Veterinary Hospital Professional Corp***
265 queen St East
Brampton ON L6W 2C2 | ***GEN***

Generator No: ON3401035
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

68 | ***1 of 5*** | ***W/270.7*** | ***217.8 / 3.00*** | ***PRIVATE BUSINESS***
255 QUEEN STREET EAST RESTAURANT
BRAMPTON CITY ON L6W 2B8 | ***SPL***

Ref No: 241701
Site No:
Incident Dt: 10/7/2002
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/7/2002
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHOOTER'S BILLIARDS LOUNGE-2 45 GAL DRUMS OF COOKING OIL TO GROUND.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved: REGION OF PEEL
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 21101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

---

68 | ***2 of 5*** | ***W/270.7*** | ***217.8 / 3.00*** | ***Counterfitters of Ontario Inc.***
255 Queen St E Unit 5
Brampton ON L6W 2B8 | ***SCT***

Established: 1988
Plant Size (ft²):
Employment: 8

--Details--
Description: Support Activities for Printing
SIC/NAICS Code: 323120

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

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68 ***3 of 5*** ***W/270.7*** ***217.8 / 3.00*** ***AMSCO CANADA LIMITED***
255 QUEEN ST. E.
BRAMPTON ON L6W 2B8 ***GEN***

Generator No: ON0026100
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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68 ***4 of 5*** ***W/270.7*** ***217.8 / 3.00*** ***AMSCO CANADA LIMITED 01-203***
255 QUEEN ST. E.
BRAMPTON ON L6W 2B8 ***GEN***

Generator No: ON0026100
Status:
Approval Years: 92,93,94,95,96,97
Contam. Facility:
MHSW Facility:
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
68	5 of 5	W/270.7	217.8 / 3.00	AMSCO CANADA LIMITED 255 QUEEN STREET EAST BRAMPTON ON L6W 2B8	GEN

Generator No: ON0026100
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
69	1 of 1	NNW/273.8	217.9 / 3.08	BRAMPTON ON	WWIS

Well ID: 7198826
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z153654
Tag: A134461
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 3/19/2013
Selected Flag: Yes
Abandonment Rec:
Contractor: 7383
Form Version: 7
Owner:
Street Name: 269 QUEEN ST. E
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1004264707
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/9/2012
Remarks:
Elevrc Desc:
Location Source Date:

Elevation: 218.046157
Elevrc:
Zone: 17
East83: 601441
North83: 4839548
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1004909460
Layer: 3
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2:
Other Materials:
Mat3: 34
Other Materials: TILL
Formation Top Depth: 2
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004909462
Layer: 5
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 08
Other Materials: FINE SAND
Mat3:
Other Materials:
Formation Top Depth: 16
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004909458
Layer: 1
Color: 8
General Color: BLACK
Mat1:
Most Common Material:
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 0.25
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004909459
Layer: 2
Color: 6

General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0.25
Formation End Depth:	2
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004909461
Layer:	4
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	
Other Materials:	
Mat3:	34
Other Materials:	TILL
Formation Top Depth:	12
Formation End Depth:	16
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004909470
Layer:	2
Plug From:	1
Plug To:	6
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004909469
Layer:	1
Plug From:	0
Plug To:	1
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004909471
Layer:	3
Plug From:	6
Plug To:	17
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1004909457
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004909465
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	7
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004909466
Layer:	1
Slot:	10
Screen Top Depth:	7
Screen End Depth:	17
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Water Details

Water ID:	1004909464
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	16
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004909463
Diameter:	8.5
Depth From:	0
Depth To:	17
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

70 ***1 of 1*** ***W/264.1*** ***217.8 / 3.00*** ***Brampton ON*** ***WWIS***

Well ID:	7298269	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	10/31/2017
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7366
Casing Material:		***Form Version:***	7
Audit No:	Z273300	***Owner:***	

Tag:	A227262	**Street Name:**	253 QUEEN ST E
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786332	**Elevation:**	218.080444
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601208
Code OB Desc:		**North83:**	4839254
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/19/2017	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006963765
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0
Formation End Depth:	3.3
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963773
Layer:	2
Plug From:	1.5
Plug To:	3.3
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006963772
Layer:	1

Plug From: 0
Plug To: 1.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1006963764
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006963768
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.8
Casing Diameter: 3.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006963769
Layer: 1
Slot: 10
Screen Top Depth: 1.8
Screen End Depth: 3.3
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4

Hole Diameter

Hole ID: 1006963766
Diameter: 10
Depth From: 0
Depth To: 3.3
Hole Depth UOM: m
Hole Diameter UOM: cm

71	*1 of 43*	*SE/294.7*	*217.1 / 2.22*	***Peel Plastic Products Ltd.*** ***49 Rutherford Rd S*** ***Brampton ON L6W 3J3***	***SCT***

Established: 01-AUG-78
Plant Size (ft²): 126000
Employment:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--

Description:	Paper Bag and Coated and Treated Paper Manufacturing
SIC/NAICS Code:	322220
Description:	Plastic Bag and Pouch Manufacturing
SIC/NAICS Code:	326111
Description:	Plastic Bag and Pouch Manufacturing
SIC/NAICS Code:	326111

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71 | ***2 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTICS LTD.***
49 RUTHERFORD RD., SOUTH BRAMPTON
PLANT 49 RUTHERFORD DR.
BRAMPTON CITY ON | ***SPL***

Ref No:	175562	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	CONFIRMED	***Site Municipality:***	21101
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	REGION OF PEEL
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	12/7/1999	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	MATERIAL FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PEEL PLASTICS: N-PROPYL ALCOHOL SPILL TO GRD DUE TO PIPE LEAK. CLEANING.		
Contaminant Qty:			

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71 | ***3 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LTD***
49 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W 3J3 | ***NPRI***

NPRI ID:	5854	***Org ID:***	61511
Other ID:	*	***Submit Date:***	8/3/2000
No Other ID:	0	***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	17663	***Contact ID:***	200933
Report ID:		***Cont Type:***	MED
Report Type:	NPRI	***Contact Title:***	
Rpt Type ID:	1	***Cont First Name:***	RAI
Report Year:	1999	***Cont Last Name:***	LAUGE
Not-Current Rpt?:	No	***Contact Position:***	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	***Contact Fax:***	9054560870
Fac ID:	127714	***Contact Ph.:***	9054563660
Fac Name:	NOT AVAILABLE	***Cont Area Code:***	905
Fac Address1:	49 RUTHERFORD ROAD SOUTH	***Contact Tel.:***	54563660
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	248
Fac Postal Zip:	L6W 3J3	***Cont Fax Area Cde:***	905
Facility Lat:		***Contact Fax:***	54560870

Facility Long:		**Contact Email:**	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	-9
Facility Cmnts:	False	**UTM Northing:**	-999999
URL:		**UTM Easting:**	-99999
No of Empl.:	119	**Waste Streams:**	Yes
Parent Co.:	*	**No Streams:**	0
No Parent Co.:	1	**Waste Off Sites:**	Yes
Pollut Prev Cmnts:	False	**No Off Sites:**	0
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Unsupported Plastic Bag Manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Methyl ethyl ketone
Chem (fr):	Méthyléthylcétone
Quantity:	9.944
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Toluene
Chem (fr):	Toluène
Quantity:	10.82
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Xylene (mixed isomers)
Chem (fr):	Xylène (mélange d'isomères)
Quantity:	4.192
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

71	***4 of 43***	***SE/294.7***	***217.1 / 2.22***	***PEEL PLASTIC PRODUCTS LIMITED 49 RUTHERFORD ROAD SOUTH NOT AVAILABLE***	***NPRI***

BRAMPTON ON L6W 3J3

NPRI ID:	5854	***Org ID:***	61505
Other ID:	*	***Submit Date:***	5/27/2001
No Other ID:	0.00	***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	17664	***Contact ID:***	200933
Report ID:		***Cont Type:***	MED
Report Type:	NPRI	***Contact Title:***	
Rpt Type ID:	1	***Cont First Name:***	RAI
Report Year:	2000	***Cont Last Name:***	LAUGE
Not-Current Rpt?:	No	***Contact Position:***	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	***Contact Fax:***	9054560870
Fac ID:	127714	***Contact Ph.:***	9054563660
Fac Name:	NOT AVAILABLE	***Cont Area Code:***	905
Fac Address1:	49 RUTHERFORD ROAD SOUTH	***Contact Tel.:***	54563660
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	248
Fac Postal Zip:	L6W 3J3	***Cont Fax Area Cde:***	905
Facility Lat:		***Contact Fax:***	54560870
Facility Long:		***Contact Email:***	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	***Latitude:***	43.6968
Facility DLS:		***Longitude:***	-79.7369
Datum:	1983	***UTM Zone:***	
Facility Cmnts:	False	***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	150	***Waste Streams:***	No
Parent Co.:	*	***No Streams:***	0
No Parent Co.:	1.00	***Waste Off Sites:***	Yes
Pollut Prev Cmnts:	False	***No Off Sites:***	1.00
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Unsupported Plastic Bag Manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Methyl ethyl ketone
Chem (fr):	Méthyléthylcétone
Quantity:	9.362
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Toluene
Chem (fr):	Toluène
Quantity:	9.114
Unit:	tonnes

Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Xylene (mixed isomers)
Chem (fr): Xylène (mélange d'isomères)
Quantity: 2.185
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

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71 | **5 of 43** | **SE/294.7** | **217.1 / 2.22** | **SAFETY-KLEEN (ON-SITE) INC.**
49 RUTHERFORD RD.SOUTH, BRAMPT
BRAMPTON, CITY ON | **WDS**

Approval No: A680356
Mob Unit Cert No:
EBR Registry No:
Status: Approved
Facility Type: Mobile Unit
Record Type:
Link Source:
Project Type:
Application Status:
Issue Date: 11/08/1999
Input Date: 11/10/99
Date Received: 9/27/99
Est Closure Date:
Mobile Capacity: 0
Mobile Units:
Mobile Description:
Prop City: GUELPH, ONTARIO
Prop Postal: N1G-4P5
Prop Phone: 519-824-2025
Serial Link: 680356
Approval Type:
Proponent: SAFETY-KLEEN (ON-SITE) INC.
Prop Address: 520 SOUTHGATE DRIVE
Proponent County/District:
Full Address:
Site Lot: PCB MOBILE PCB DESTRUCTION FACILITY AT PEEL PLASTICS
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other: No
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:

Total Area (ha): 0
Landfill Cap (m³): 0
Transfer Area (ha): 0
Transfer Cap (m³): 0
Transfer Cert No:
Inciner. Area (ha): 0
Inciner. Cap (t): 0
Process Area (m³): 0
Process Cap (m³/d): 0
Process Vol (m³): 0
Process Feed (m³): 0
Site Concession:
Site Region/County: HALTON-PEEL
SWP Area Name:
MOE District:
District Office: Halton-Peel
Latitude:
Longitude:
Geometry X:
Geometry Y:

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71 | **6 of 43** | **SE/294.7** | **217.1 / 2.22** | **WHEATON GLASS CO.**
WHEATON IND. OF CANADA LTD. DIV OF 49 RUTHERFORD RD S
BRAMPTON ON L6W 3J3 | **GEN**

Generator No: ON0187300
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3561
SIC Description: PRIMARY GLASS & CONT.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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71 **7 of 43** **SE/294.7** **217.1 / 2.22** **GEN**

WHEATON GLASS CO. 42-007
WHEATON IND. OF CANADA LTD. DIV OF 49
RUTHERFORD RD S
BRAMPTON ON L6W 3J3

Generator No: ON0187300
Status:
Approval Years: 92,93,94,95,96,97
Contam. Facility:
MHSW Facility:
SIC Code: 3561
SIC Description: PRIMARY GLASS & CONT

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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71 **8 of 43** **SE/294.7** **217.1 / 2.22** **GEN**

WHEATON GLASS CCOMPANY, DIVISION OF
WHEATON INDUSTRIES OF CANADA LTD. 49
RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3

Generator No: ON0187300
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 3561
SIC Description: PRIMARY GLASS & CONT.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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71 **9 of 43** **SE/294.7** **217.1 / 2.22** **GEN**

PEEL PLASTIC PRODUCTS LTD.
49 RUTHERFORD ROAD SOUTH

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BRAMPTON ON L6W 3J3	

Generator No: ON0201201
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 1691
SIC Description: PLASTIC BAG INDUSTRY

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

71	10 of 43	SE/294.7	217.1 / 2.22	PEEL PLASTIC PRODUCTS LTD. 30-306 49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	GEN

Generator No: ON0201201
Status:
Approval Years: 92,93
Contam. Facility:
MHSW Facility:
SIC Code: 1691
SIC Description: PLASTIC BAG INDUSTRY

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

71	11 of 43	SE/294.7	217.1 / 2.22	PEEL PLASTIC PRODUCTS LTD. 30-306 49 RUTHERFORD ROAD SOUTH BRAMPTON ON L6W 3J3	GEN

Generator No: ON0201201
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 1691
SIC Description: PLASTIC BAG INDUSTRY

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

71	12 of 43	SE/294.7	217.1 / 2.22	PEEL PLASTIC PRODUCTS LTD 49 RUTHERFORD ROAD SOUTH	GEN

BRAMPTON ON L6W 3J3

Generator No: ON0201201
Status:
Approval Years: 97
Contam. Facility:
MHSW Facility:
SIC Code: 1691
SIC Description: PLASTIC BAG INDUSTRY

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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71 **13 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LIMITED**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 **GEN**

Generator No: ON0201201
Status:
Approval Years: 98,99,00,01,02,03,04,05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 1691
SIC Description: PLASTIC BAG INDUSTRY

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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71 **14 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LIMITED**
49 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W 3J3 **NPRI**

NPRI ID: 5854
Other ID: Y
No Other ID: 2
Track ID: 77401
Report ID: 162172
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2002
Not-Current Rpt?: No
Yr of Last Filed Rpt: 2014

Org ID: 61505
Submit Date: 5/8/2003
Last Modified: 5/29/2015 3:28:24 PM
Contact ID: 200933
Cont Type: MED
Contact Title:
Cont First Name: RAI
Cont Last Name: LAUGE
Contact Position: VICE PRESIDENT OF MANUFACTURING
Contact Fax: 9054560870

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Fac ID:	127714	**Contact Ph.:**	9054563660
Fac Name:	NOT AVAILABLE	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	248
Fac Postal Zip:	L6W 3J3	**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	54560870
Facility Long:		**Contact Email:**	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	150	**Waste Streams:**	False
Parent Co.:	*	**No Streams:**	0
No Parent Co.:	1	**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	0
Stacks:	False	**Shutdown:**	False
No of Stacks:		**No of Shutdown:**	0
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastics Bag Manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	419.157
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 | ***15 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LIMITED***
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID:	5854	**Org ID:**	61505
Other ID:	Y	**Submit Date:**	5/7/2004
No Other ID:	2	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	73968	**Contact ID:**	200933
Report ID:	153740	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	RAI
Report Year:	2003	**Cont Last Name:**	LAUGE
Not-Current Rpt?:	No	**Contact Position:**	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127713	**Contact Ph.:**	9054563660
Fac Name:	NOT AVAILABLE	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	248
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	RAIL@PEELPLASTICS.COM

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	150	**Waste Streams:**	True¿
Parent Co.:	*	**No Streams:**	
No Parent Co.:	1	**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	True
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastics Bag Manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	423.043
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 | ***16 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LTD***
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID:	5854	**Org ID:**	61511
Other ID:	Y	**Submit Date:**	5/5/2005
No Other ID:	2	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	25063	**Contact ID:**	200933
Report ID:	83115	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	RAI
Report Year:	2004	**Cont Last Name:**	LAUGE
Not-Current Rpt?:	No	**Contact Position:**	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127724	**Contact Ph.:**	9054563660
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	248
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	True	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	170	**Waste Streams:**	False
Parent Co.:	N	**No Streams:**	

No Parent Co.:
Pollut Prev Cmnts: True
Stacks: No
No of Stacks:
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 32
NAICS 2 Description: Manufacturing
NAICS Code (4 digit): 3261
NAICS 4 Description: Plastic product manufacturing
NAICS Code (6 digit): 326111
NAICS 6 Description: Plastics Bag Manufacturing
Waste Off Sites: False
No Off Sites:
Shutdown:
No of Shutdown:

Substance Release Report

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: GE - Ethylene glycol propyl ether (EGPE)
Chem (fr): EG - Éther propylique d'éthylèneglycol (EGPE)
Quantity: 8.589
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: GE - Propylene glycol propyl ether (PGPE)
Chem (fr): EG - Éther propylique de propylèneglycol (PGPE)
Quantity: 16.261
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: GE - 2-methoxy-1-propanol (PGME)
Chem (fr): EG - 2-Méthoxypropan-1-ol (PGME)
Quantity: .13
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: GE - 1-methoxy-2-propanol (PGME)
Chem (fr): EG - 1-Méthoxypropan-2-ol (PGME)
Quantity: 5.458
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Carbon black
Chem (fr): Noir de carbone
Quantity: 0
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: GE - Dipropylene glycol methyl ether (DPGME)
Chem (fr): EG - Éther méthylique de dipropylèneglycol (DPGME)
Quantity: 3.457
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: GE - Diethylene glycol butyl ether (DEGBE)
Chem (fr): EG - Éther butylique de diéthylèneglycol (DEGBE)
Quantity: .06
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Volatile Organic Compounds (VOCs)
Chem (fr): Composés organiques volatils (COV)
Quantity: 368.2
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: GE - Propylene glycol methyl ether acetate (PGMEA)
Chem (fr): EG - Acétate d'éther méthylique de propylèneglycol (PGMEA)
Quantity: .384
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Ethyl acetate

Chem (fr):	Acétate d'éthyle
Quantity:	88.887
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 **17 of 43** **SE/294.7** **217.1 / 2.22** **49 Rutherford Rd. S**
Brampton ON L6W 3J3 **EHS**

Order No:	20060623006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Basic Report	**Client Prov/State:**	ON
Report Date:	7/4/2006	**Search Radius (km):**	0.25
Date Received:	6/23/2006	**X:**	-79.73658
Previous Site Name:		**Y:**	43.697384
Lot/Building Size:			
Additional Info Ordered:			

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71 **18 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LTD**
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 **NPRI**

NPRI ID:	5854	**Org ID:**	61511
Other ID:	Y	**Submit Date:**	10/23/2007
No Other ID:	2	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	51852	**Contact ID:**	200933
Report ID:	102634	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	RAI
Report Year:	2005	**Cont Last Name:**	LAUGE
Not-Current Rpt?:	No	**Contact Position:**	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127724	**Contact Ph.:**	9054563660
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	248
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	180	**Waste Streams:**	False
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	False	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastics Bag Manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	456.795
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Ethyl acetate
Chem (fr):	Acétate d'éthyle
Quantity:	172.631
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	.087
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

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71 | ***19 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LTD***
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID:	5854	**Org ID:**	61511
Other ID:	Y	**Submit Date:**	5/30/2008
No Other ID:	2	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	56117	**Contact ID:**	200933
Report ID:	112540	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	RAI
Report Year:	2006	**Cont Last Name:**	LAUGE
Not-Current Rpt?:	No	**Contact Position:**	VICE PRESIDENT OF MANUFACTURING
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127724	**Contact Ph.:**	9054563660
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	248
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	RAIL@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	190	**Waste Streams:**	True¿
Parent Co.:	N	**No Streams:**	

No Parent Co.:
Pollut Prev Cmnts: False
Stacks: True
No of Stacks:
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 32
NAICS 2 Description: Manufacturing
NAICS Code (4 digit): 3261
NAICS 4 Description: Plastic product manufacturing
NAICS Code (6 digit): 326111
NAICS 6 Description: Plastics Bag Manufacturing

Waste Off Sites: Fals
No Off Sites: 1.00
Shutdown:
No of Shutdown:

Substance Release Report

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Copper (and its compounds)
Chem (fr): Cuivre (et ses composés)
Quantity: .457
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Sulphur dioxide
Chem (fr): Dioxyde de soufre
Quantity: .006
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: MSG#1 - Solvent naphtha light aliphatic
Chem (fr): EMG#1 - Solvant naphta aliphatique léger
Quantity: .74
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Carbon monoxide
Chem (fr): Monoxyde de carbone
Quantity: .83
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: GE - Diethylene glycol butyl ether (DEGBE)
Chem (fr): EG - Éther butylique de diéthylèneglycol (DEGBE)
Quantity: .009
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Toluene
Chem (fr): Toluène
Quantity: 7.255
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr): PM2,5 - Matière particulaire <= 2,5 microns
Quantity: .019
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Aluminum (fume or dust)
Chem (fr): Aluminium (fumée ou poussière)
Quantity: .114
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: GE - Propylene glycol methyl ether acetate (PGMEA)
Chem (fr): EG - Acétate d'éther méthylique de propylèneglycol (PGMEA)
Quantity: 1.013
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: MSG#1 - VM & P naphtha

Chem (fr): EMG#1 - Naphta VM et P
Quantity: 2.3
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Ethyl acetate
Chem (fr): Acétate d'éthyle
Quantity: 140.35
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Isopropyl alcohol
Chem (fr): Alcool iso-propylique
Quantity: 5.715
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: PM - Total Particulate Matter
Chem (fr): PM - Particules totales
Quantity: .075
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Volatile Organic Compounds (VOCs)
Chem (fr): Composés organiques volatils (COV)
Quantity: 471.415
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Nitrogen oxides (expressed as NO2)
Chem (fr): Oxydes d'azote (exprimés en NO2)
Quantity: 2.767
Unit: tonnes
Basis of Estimate Cd: E2
Basis of Estimate Desc: E2- Published Emission Factors - In use from 2003 and onward

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	20 of 43	SE/294.7	217.1 / 2.22	PEEL PLASTIC PRODUCTS LTD 49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	NPRI

NPRI ID:	5854	**Org ID:**	61511
Other ID:	Y	**Submit Date:**	5/21/2009
No Other ID:	2.00	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	63240	**Contact ID:**	145461
Report ID:	122077	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	ED
Report Year:	2007	**Cont Last Name:**	CHANG-YEN
Not-Current Rpt?:	No	**Contact Position:**	TECHNOLOGY MANAGER
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127724	**Contact Ph.:**	9054563660
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	280
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	EDC@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	198	**Waste Streams:**	True¿
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	True¿
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	572.124
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Ethyl acetate
Chem (fr):	Acétate d'éthyle

Quantity:	192.355
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 | **21 of 43** | **SE/294.7** | **217.1 / 2.22** | **PEEL PLASTIC PRODUCTS LTD**
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | **NPRI**

NPRI ID:	5854	**Org ID:**	61511
Other ID:	Y	**Submit Date:**	5/21/2009
No Other ID:	2	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	63354	**Contact ID:**	145461
Report ID:	126253	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	ED
Report Year:	2008	**Cont Last Name:**	CHANG-YEN
Not-Current Rpt?:	No	**Contact Position:**	TECHNOLOGY MANAGER
Yr of Last Filed Rpt:	2014	**Contact Fax:**	9054560870
Fac ID:	127724	**Contact Ph.:**	9054563660
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	905
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	54563660
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	280
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	905
Facility Lat:	43.6968	**Contact Fax:**	54560870
Facility Long:	-79.7369	**Contact Email:**	EDC@PEELPLASTICS.COM
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	198	**Waste Streams:**	No
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	593.595
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	22 of 43	SE/294.7	217.1 / 2.22	Peel Plastic Products Limited Lots 11 and 4, Concession 2, 49 Rutherford Road Brampton ON	CA

Certificate #: 5704-63LJTD
Application Year: 2004
Issue Date: 12/20/2004
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	23 of 43	SE/294.7	217.1 / 2.22	Peel Plastic Products Limited 49 Rutherford Rd Brampton ON	CA

Certificate #: 7509-7UZSR8
Application Year: 2009
Issue Date: 9/7/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	24 of 43	SE/294.7	217.1 / 2.22	PEEL PLASTIC PRODUCTS LTD 49 RUTHERFORD ROAD NOT AVAILABLE BRAMPTON ON L6W3J3	NPRI

NPRI ID: 5854
Other ID: Y
No Other ID: 2
Track ID: 81935
Report ID: 135701
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2009
Not-Current Rpt?: No
Yr of Last Filed Rpt: 2014
Fac ID: 127724
Fac Name: PEEL PLASTIC PRODUCTS LIMITED
Fac Address1: 49 RUTHERFORD ROAD
Fac Address2: NOT AVAILABLE
Fac Postal Zip: L6W3J3
Facility Lat: 43.6968
Facility Long: -79.7369
DLS (Last Filed Rpt): Ontario
Facility DLS:
Datum: 1983
Facility Cmnts: No

Org ID: 61511
Submit Date: 7/6/2010
Last Modified: 5/29/2015 3:28:24 PM
Contact ID: 233574
Cont Type: MED
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:
Contact Fax:
Contact Ph.:
Cont Area Code:
Contact Tel.:
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email:
Latitude: 43.6968
Longitude: -79.7369
UTM Zone:
UTM Northing:

URL:		**UTM Easting:**	
No of Empl.:	200	**Waste Streams:**	No
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	

Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:

NAICS Code (2 digit):	32
NAICS 2 Description:	Manufacturing
NAICS Code (4 digit):	3261
NAICS 4 Description:	Plastic product manufacturing
NAICS Code (6 digit):	326111
NAICS 6 Description:	Plastic bag and pouch manufacturing

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	726.213
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 | ***25 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LTD.***
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID:	5854	**Org ID:**	102692
Other ID:	Y	**Submit Date:**	6/3/2011
No Other ID:	4	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	91117	**Contact ID:**	233574
Report ID:	145176	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2010	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	127724	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	
Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	250	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	

Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 32
NAICS 2 Description: Manufacturing
NAICS Code (4 digit): 3261
NAICS 4 Description: Plastic product manufacturing
NAICS Code (6 digit): 326111
NAICS 6 Description: Plastic bag and pouch manufacturing

Substance Release Report

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Volatile Organic Compounds (VOCs)
Chem (fr): Composés organiques volatils (COV)
Quantity: 662.218
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

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71 | ***26 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LIMITED***
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 | ***GEN***

Generator No: ON0201201
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 326111
SIC Description: Plastics Bag Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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71 | ***27 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***PEEL PLASTIC PRODUCTS LTD.***
49 RUTHERFORD ROAD NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID: 5854
Other ID:
No Other ID:
Track ID: 102436
Report ID: 7361

Org ID: 102692
Submit Date: 6/29/2012
Last Modified: 5/29/2015 3:28:24 PM
Contact ID: 233574
Cont Type: MED

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2011	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	127724	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	
Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:		**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	250	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	649.574
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

71	***28 of 43***	***SE/294.7***	***217.1 / 2.22***	***PEEL PLASTIC PRODUCTS LIMITED*** ***49 RUTHERFORD ROAD SOUTH*** ***BRAMPTON ON L6W 3J3***	***GEN***

Generator No:	ON0201201	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	326111		
SIC Description:	Plastics Bag Manufacturing		

Detail(s)

Waste Class:	122

Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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71 **29 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LIMITED** **GEN**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3

Generator No: ON0201201
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 326111
SIC Description: Plastics Bag Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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71 **30 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LIMITED** **GEN**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3

Generator No: ON0201201
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 326111
SIC Description: Plastics Bag Manufacturing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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71 | **31 of 43** | **SE/294.7** | **217.1 / 2.22** | **PEEL PLASTIC PRODUCTS LTD.**
49 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J3 | **NPRI**

NPRI ID:	5854	**Org ID:**	102692
Other ID:		**Submit Date:**	12/24/2013
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	78317	**Contact ID:**	
Report ID:	26999	**Cont Type:**	
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2012	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	223562	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	
Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:	ONTARIO	**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	290	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	655.454
Unit:	tonnes

Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

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71 **32 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LIMITED** **GEN**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON

Generator No: ON0201201
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 326111
SIC Description: PLASTIC BAG AND POUCH MANUFACTURING, PLASTICS BAG MANUFACTURING, UNSUPPORTED PLASTIC BAG MANUFACTURING

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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71 **33 of 43** **SE/294.7** **217.1 / 2.22** **PEEL PLASTIC PRODUCTS LTD.** **NPRI**
49 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J3

NPRI ID: 5854
Other ID:
No Other ID:
Track ID: 116012
Report ID: 30022
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2013
Not-Current Rpt?: No
Yr of Last Filed Rpt: 2014
Fac ID: 223562
Fac Name: PEEL PLASTIC PRODUCTS LIMITED
Fac Address1: 49 RUTHERFORD ROAD SOUTH
Fac Address2: NOT AVAILABLE
Fac Postal Zip: L6W3J3
Facility Lat: 43.6968
Facility Long: -79.7369
DLS (Last Filed Rpt): Ontario
Facility DLS: ONTARIO
Datum: 1983
Facility Cmnts:
URL:
No of Empl.: 300
Parent Co.:
No Parent Co.:

Org ID: 102692
Submit Date: 5/8/2014
Last Modified: 5/29/2015 3:28:24 PM
Contact ID:
Cont Type:
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:
Contact Fax:
Contact Ph.:
Cont Area Code:
Contact Tel.:
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email:
Latitude: 43.6968
Longitude: -79.7369
UTM Zone:
UTM Northing:
UTM Easting:
Waste Streams:
No Streams:
Waste Off Sites:

Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	682
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

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71 | ***34 of 43*** | ***SE/294.7*** | ***217.1 / 2.22*** | ***Peel Plastic Products Ltd.***
49 RUTHERFORD ROAD SOUTH NOT AVAILABLE
BRAMPTON ON L6W3J3 | ***NPRI***

NPRI ID:	5854	**Org ID:**	106637
Other ID:		**Submit Date:**	5/30/2016
No Other ID:		**Last Modified:**	11/18/2016 8:28:05 AM
Track ID:	140516	**Contact ID:**	
Report ID:	75392	**Cont Type:**	
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2014	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	223562	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	
Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:	ONTARIO	**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	330	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			

American SIC Code:
NAICS Code (2 digit): 32
NAICS 2 Description: Manufacturing
NAICS Code (4 digit): 3261
NAICS 4 Description: Plastic product manufacturing
NAICS Code (6 digit): 326111
NAICS 6 Description: Plastic bag and pouch manufacturing

Substance Release Report

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Volatile Organic Compounds (VOCs)
Chem (fr): Composés organiques volatils (COV)
Quantity: 780
Unit: tonnes
Basis of Estimate Cd: C
Basis of Estimate Desc: C- Mass Balance

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71 ***35 of 43*** ***SE/294.7*** ***217.1 / 2.22*** ***Peel Plastic Products Limited***
49 Rutherford Rd Lots 11 and 4, Concession 2
Brampton ON L6W 3J3 ***ECA***

Approval No: 7509-7UZSR8
Approval Date: 2009-09-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Toronto
Approval Type: ECA-AIR
Project Type: AIR
Address: 49 Rutherford Rd Lots 11 and 4, Concession 2
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7226-7DDN93-14.pdf
MOE District: Halton-Peel
City:
Longitude: -79.73644999999999
Latitude: 43.69751
Geometry X:
Geometry Y:

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71 ***36 of 43*** ***SE/294.7*** ***217.1 / 2.22*** ***Peel Plastic Products Limited***
49 Rutherford Rd Lots 11 and 4, Concession 2
Brampton ON L6W 3J3 ***ECA***

Approval No: 5704-63LJTD
Approval Date: 2004-12-20
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Toronto
Approval Type: ECA-AIR
Project Type: AIR
Address: 49 Rutherford Rd Lots 11 and 4, Concession 2
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4969-5MGMY7-14.pdf
MOE District: Halton-Peel
City:
Longitude: -79.73644999999999
Latitude: 43.69751
Geometry X:
Geometry Y:

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71 ***37 of 43*** ***SE/294.7*** ***217.1 / 2.22*** ***PEEL PLASTIC PRODUCTS LIMITED***
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 ***GEN***

Generator No: ON0201201
Status:
Approval Years: 2016
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL

Contam. Facility: No
MHSW Facility: No
SIC Code: 326111
SIC Description: PLASTIC BAG AND POUCH MANUFACTURING, PLASTICS BAG MANUFACTURING, UNSUPPORTED PLASTIC BAG MANUFACTURING
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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71 | **38 of 43** | **SE/294.7** | **217.1 / 2.22** | **PEEL PLASTIC PRODUCTS LIMITED**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 | **GEN**

Generator No: ON0201201
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 326111
SIC Description: PLASTIC BAG AND POUCH MANUFACTURING, PLASTICS BAG MANUFACTURING, UNSUPPORTED PLASTIC BAG MANUFACTURING
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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71 | **39 of 43** | **SE/294.7** | **217.1 / 2.22** | **PEEL PLASTIC PRODUCTS LIMITED**
49 RUTHERFORD ROAD SOUTH
BRAMPTON ON L6W 3J3 | **GEN**

Generator No: ON0201201
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 326111
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

SIC Description: PLASTIC BAG AND POUCH MANUFACTURING, PLASTICS BAG MANUFACTURING, UNSUPPORTED PLASTIC BAG MANUFACTURING

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

71	40 of 43	SE/294.7	217.1 / 2.22	**PEEL PLASTIC PRODUCTS LIMITED** **49 RUTHERFORD ROAD SOUTH** **BRAMPTON ON L6W 3J3**	GEN

Generator No: ON0201201
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 H
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 212 H
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 252 T
Waste Class Desc: Waste crankcase oils and lubricants

71	41 of 43	SE/294.7	217.1 / 2.22	**Peel Plastic Products Ltd.** **49 RUTHERFORD ROAD SOUTH NOT AVAILABLE** **BRAMPTON ON L6W3J3**	NPRI

NPRI ID: 5854
Other ID:
No Other ID:
Track ID: 139256
Report ID: 73476
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2015
Not-Current Rpt?: No

Org ID: 106637
Submit Date: 5/30/2016
Last Modified: 11/18/2016 8:28:05 AM
Contact ID:
Cont Type:
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:

Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	223562	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	
Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:	ONTARIO	**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	323	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	
Chem (fr):	
Quantity:	805
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	42 of 43	SE/294.7	217.1 / 2.22	**PEEL PLASTIC PRODUCTS LTD.** **49 RUTHERFORD ROAD SOUTH NOT AVAILABLE** **BRAMPTON ON L6W3J3**	NPRI

NPRI ID:	5854	**Org ID:**	102692
Other ID:		**Submit Date:**	6/1/2015
No Other ID:		**Last Modified:**	6/10/2015 10:59:04 AM
Track ID:	130838	**Contact ID:**	
Report ID:	56972	**Cont Type:**	
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2014	**Cont Last Name:**	
Not-Current Rpt?:	Yes	**Contact Position:**	
Yr of Last Filed Rpt:	2014	**Contact Fax:**	
Fac ID:	223562	**Contact Ph.:**	
Fac Name:	PEEL PLASTIC PRODUCTS LIMITED	**Cont Area Code:**	
Fac Address1:	49 RUTHERFORD ROAD SOUTH	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L6W3J3	**Cont Fax Area Cde:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Facility Lat:	43.6968	**Contact Fax:**	
Facility Long:	-79.7369	**Contact Email:**	
DLS (Last Filed Rpt):	Ontario	**Latitude:**	43.6968
Facility DLS:	ONTARIO	**Longitude:**	-79.7369
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	330	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	32		
NAICS 2 Description:	Manufacturing		
NAICS Code (4 digit):	3261		
NAICS 4 Description:	Plastic product manufacturing		
NAICS Code (6 digit):	326111		
NAICS 6 Description:	Plastic bag and pouch manufacturing		

Substance Release Report

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	Volatile Organic Compounds (VOCs)
Chem (fr):	Composés organiques volatils (COV)
Quantity:	816
Unit:	tonnes
Basis of Estimate Cd:	C
Basis of Estimate Desc:	C- Mass Balance

71	***43 of 43***	***SE/294.7***	***217.1 / 2.22***	***PEEL PLASTIC PRODUCTS LIMITED*** ***49 RUTHERFORD ROAD SOUTH*** ***BRAMPTON ON L6W 3J3***	***GEN***

Generator No:	ON0201201	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Oct 2019	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	212 H
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	252 T
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants

Waste Class: 145 H
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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72 **1 of 4** **NNW/278.6** **218.5 / 3.62** **RESTAURANT** **SPL**
269 QUEEN ST EAST. (N.O.S.)
BRAMPTON CITY ON L6W 2C2

Ref No:	118785	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	9/21/1995	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	OTHER CONTAINER LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	NOT ANTICIPATED	**Site Municipality:**	21101
Nature of Impact:		**Site Lot:**	
Receiving Medium:	LAND / WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	WORKS, PEEL REG.
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	9/21/1995	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	EQUIPMENT FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: SWISS CHALET RESTAURANT- 500 L USED COOKING GREASETO PARKING & CATCH BASINS
Contaminant Qty:

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72 **2 of 4** **NNW/278.6** **218.5 / 3.62** **Flanagan Foodservice Inc.** **SPL**
269 Queen St. East
Brampton ON

Ref No:	7147-7Y6MV3	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Other Transport Accident	**Sector Type:**	Motor Vehicle
Incident Event:		**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	
Nature of Impact:	Other Impact(s)	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	11/26/2009	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Error- Operator error	**Source Type:**	
Site Name:	saddle tank<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: Brampton: 200 L diesel to grd, contained, cleaning
Contaminant Qty: 200 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
72	3 of 4	NNW/278.6	218.5 / 3.62	269 Queen Street East Brampton ON	EHS

Order No:	20120802034	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	10-AUG-12	**Search Radius (km):**	.25
Date Received:	02-AUG-12	**X:**	-79.741626
Previous Site Name:		**Y:**	43.702235
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
72	4 of 4	NNW/278.6	218.5 / 3.62	2093893 ONTARIO INC 269 QUEEN STREET EAST BRAMPTON ON L6W 2C2	GEN

Generator No:	ON3392580	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2014	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	
MHSW Facility:	No	**Phone No Admin:**	
SIC Code:	211113		
SIC Description:	CONVENTIONAL OIL AND GAS EXTRACTION		

Detail(s)

Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
73	1 of 1	SW/244.1	218.8 / 4.00	ON	BORE

Borehole ID:	653074	**Inclin FLG:**	No
OGF ID:	215553425	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1970	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.697133
Total Depth m:	1.8	**Longitude DD:**	-79.742701
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	601315
Drill Method:	Power auger	**Northing:**	4839003
Orig Ground Elev m:	219	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	217		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218538002	**Mat Consistency:**	
Top Depth:	.7	**Material Moisture:**	Moist
Bottom Depth:	1.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	

Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:	Boulders	**Depositional Gen:**	

Gsc Material Description:
Stratum Description: TILL,SILT,CLAY, BOULDERS. MOIST,AGE QUATERNARY, WATER STABLE AT 718.5 FEET.T.

Geology Stratum ID:	218538001	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	Moist
Bottom Depth:	.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	organic

Gsc Material Description:
Stratum Description: SOIL,ORGANIC. BROWN,MOIST.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 237360 NTS_Sheet: 30M12G
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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74 | ***1 of 1*** | ***N/268.0*** | ***216.0 / 1.15*** | ***ON*** | ***WWIS***

Well ID:	4900522	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	10/4/1961
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	2801
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10315370	***Elevation:***	217.856353
DP2BR:	30	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	601532.6
Code OB Desc:	Bedrock	***North83:***	4839563
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	9/19/1961	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932030493
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	13
Other Materials:	BOULDERS
Formation Top Depth:	24
Formation End Depth:	30
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932030492
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	09
Other Materials:	MEDIUM SAND
Mat3:	05
Other Materials:	CLAY
Formation Top Depth:	20
Formation End Depth:	24
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932030490
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES

Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 11
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030491
Layer: 2
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 11
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030494
Layer: 5
Color: 3
General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 30
Formation End Depth: 41
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10863940
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930521469
Layer: 1
Material:
Open Hole or Material:
Depth From:

Depth To:
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

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75 | 1 of 2 | W/269.2 | 217.8 / 3.00 | BRAMPTON ON | WWIS

Well ID: 4910296
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z46027
Tag: A041142
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 8/29/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 7282
Form Version: 3
Owner:
Street Name: 253 QUEEN STREET E
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11555530
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 7/31/2006
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 218.125869
Elevrc:
Zone: 17
East83: 601204
North83: 4839259
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933068448
Layer: 2
Color: 4
General Color: GREEN
Mat1: 34
Most Common Material: TILL
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 1.8
Formation End Depth: 2.7
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	933068447
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	1.8
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300744
Layer:	1
Plug From:	0
Plug To:	1.1
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11565137
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930885695
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.2
Casing Diameter:	5.3
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	933420272
Layer:	1
Slot:	10
Screen Top Depth:	1.2
Screen End Depth:	2.7

Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6

Hole Diameter

Hole ID:	11687148
Diameter:	21
Depth From:	0
Depth To:	2.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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75 **2 of 2** **W/269.2** **217.8 / 3.00** **BRAMPTON ON** **WWIS**

Well ID:	7052993	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	11/30/2007
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Other Status	**Abandonment Rec:**	
Water Type:		**Contractor:**	7282
Casing Material:		**Form Version:**	4
Audit No:	Z62898	**Owner:**	
Tag:	A055833	**Street Name:**	253 QUEENSTREET EAST UNIT 5
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	23052993	**Elevation:**	218.125869
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601204
Code OB Desc:		**North83:**	4839259
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1000060385
Layer:	1
Color:	6

General Color:	BROWN
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	01
Other Materials:	FILL
Mat3:	79
Other Materials:	PACKED
Formation Top Depth:	0
Formation End Depth:	3.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1000060387
Layer:	1
Plug From:	0
Plug To:	1.22
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1000060388
Layer:	2
Plug From:	1.22
Plug To:	1.52
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1000060383
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1000060390
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2
Casing Diameter:	0.05
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1000060391
Layer:	
Slot:	

Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1000060384
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1000060386
Diameter: 20
Depth From:
Depth To: 3.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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76 | ***1 of 1*** | ***NW/295.1*** | ***218.8 / 4.00*** | ***265 Queen Street East Brampton ON*** | ***EHS***

Order No: 20150310022
Status: C
Report Type: Custom Report
Report Date: 13-MAR-15
Date Received: 10-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.742082
Y: 43.701792

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77 | ***1 of 1*** | ***W/276.0*** | ***217.8 / 3.00*** | ***Brampton ON*** | ***WWIS***

Well ID: 7298270
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z273293
Tag: A227255
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src:
Date Received: 10/31/2017
Selected Flag: Yes
Abandonment Rec:
Contractor: 7366
Form Version: 7
Owner:
Street Name: 253 QUEEN ST E
County: PEEL
Municipality: BRAMPTON CITY
Site Info:

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006786335
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/19/2017
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 218.157287
Elevrc:
Zone: 17
East83: 601201
North83: 4839274
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006963775
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 66
Other Materials: DENSE
Formation Top Depth: 0
Formation End Depth: 4.2
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963783
Layer: 2
Plug From: 1.5
Plug To: 4.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963782
Layer: 1
Plug From: 0
Plug To: 1.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1006963774
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006963778
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 2.7
Casing Diameter: 3.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006963779
Layer: 1
Slot: 10
Screen Top Depth: 2.7
Screen End Depth: 4.2
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4

Hole Diameter

Hole ID: 1006963776
Diameter: 10
Depth From: 0
Depth To: 4.2
Hole Depth UOM: m
Hole Diameter UOM: cm

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78 ***1 of 1*** ***NNW/285.4*** ***218.6 / 3.79*** ***Brampton ON*** ***WWIS***

Well ID: 7206002
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z166075
Tag: A144111
Construction Method:
Elevation (m):

Data Entry Status:
Data Src:
Date Received: 8/7/2013
Selected Flag: Yes
Abandonment Rec:
Contractor: 7383
Form Version: 7
Owner:
Street Name: 269 QUEEN ST. E
County: PEEL
Municipality: BRAMPTON CITY

Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1004494878	***Elevation:***	218.171936
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601426
Code OB Desc:		***North83:***	4839554
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	5/27/2013	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004968133
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	
Other Materials:	
Mat3:	81
Other Materials:	SANDY
Formation Top Depth:	8
Formation End Depth:	17.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004968132
Layer:	1
Color:	
General Color:	
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	8
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004968141
Layer:	2
Plug From:	1
Plug To:	7
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004968140
Layer:	1
Plug From:	0
Plug To:	1
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004968142
Layer:	3
Plug From:	7
Plug To:	17.5
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1004968131
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004968136
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	7.5
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004968137
Layer:	1
Slot:	10
Screen Top Depth:	7.5
Screen End Depth:	17.5

Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.125

Water Details

Water ID:	1004968135
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	12
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004968134
Diameter:	8.5
Depth From:	0
Depth To:	17.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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79 ***1 of 1*** ***W/274.9*** ***217.8 / 3.00*** ***BRAMPTON ON*** ***WWIS***

Well ID:	4910041	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	2/1/2006
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	3
Audit No:	Z34336	**Owner:**	
Tag:		**Street Name:**	253 QUEEN STREET EAST
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11555275	**Elevation:**	218.172744
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	_	**East83:**	601199.4
Code OB Desc:	No formation data	**North83:**	4839264
Open Hole:		**Org CS:**	G83a
Cluster Kind:		**UTMRC:**	3
Date Completed:	1/13/2006	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID:	933288046
Layer:	1
Plug From:	0
Plug To:	12
Plug Depth UOM:	m

Pipe Information

Pipe ID:	11564882
Casing No:	1
Comment:	
Alt Name:	

Hole Diameter

Hole ID:	11686924
Diameter:	5
Depth From:	0
Depth To:	12
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

80 ***1 of 1*** ***W/279.7*** ***217.8 / 3.00*** ***Brampton ON*** ***WWIS***

Well ID:	7298271	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	10/31/2017
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7366
Casing Material:		***Form Version:***	7
Audit No:	Z273292	***Owner:***	
Tag:	A227257	***Street Name:***	253 QUEEN ST E
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786338	***Elevation:***	218.208602
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601196
Code OB Desc:		***North83:***	4839270
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/19/2017	***UTMRC Desc:***	margin of error : 30 m - 100 m

Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1006963785
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 66
Other Materials: DENSE
Formation Top Depth: 0
Formation End Depth: 3.81
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963793
Layer: 2
Plug From: 1.5
Plug To: 3.81
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006963792
Layer: 1
Plug From: 0
Plug To: 1.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1006963784
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006963788

Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	2.3
Casing Diameter:	3.8
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006963789
Layer:	1
Slot:	10
Screen Top Depth:	2.3
Screen End Depth:	3.81
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4

Hole Diameter

Hole ID:	1006963786
Diameter:	10
Depth From:	0
Depth To:	3.81
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

81 ***1 of 1*** ***W/277.6*** ***217.8 / 3.00*** ***ON*** ***WWIS***

Well ID:	7306247	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	2/21/2018
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7464
Casing Material:		**Form Version:**	8
Audit No:	C39876	**Owner:**	
Tag:	A233459	**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006990511	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601194
Code OB Desc:		**North83:**	4839253
Open Hole:		**Org CS:**	UTM83

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Cluster Kind:		**UTMRC:**	4
Date Completed:	1/9/2018	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

82 | ***1 of 2*** | ***W/279.8*** | ***217.8 / 3.00*** | ***lot 5 con 2 Brampton ON*** | ***WWIS***

Well ID:	7298263	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/31/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7366
Casing Material:		**Form Version:**	7
Audit No:	Z273294	**Owner:**	
Tag:	A227260	**Street Name:**	253 QUEEN ST E
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	BRAMPTON CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	005
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	HS E
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786259	**Elevation:**	218.230041
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	601192
Code OB Desc:		**North83:**	4839254
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	10/19/2017	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	digit
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006966538
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL

Mat3: 66
Other Materials: DENSE
Formation Top Depth: 0
Formation End Depth: 3.9
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006966547
Layer: 3
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006966546
Layer: 2
Plug From: 1.5
Plug To: 3.9
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006966545
Layer: 1
Plug From: 0
Plug To: 1.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 9
Method Construction: Driving
Other Method Construction:

Pipe Information

Pipe ID: 1006966537
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006966541
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 2.4
Casing Diameter: 38
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1006966542
Layer:	1
Slot:	10
Screen Top Depth:	2.4
Screen End Depth:	3.9
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4

Hole Diameter

Hole ID:	1006966539
Diameter:	10
Depth From:	0
Depth To:	3.9
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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82 ***2 of 2*** ***W/279.8*** ***217.8 / 3.00*** ***Brampton ON*** ***WWIS***

Well ID:	7298264	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	10/31/2017
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7366
Casing Material:		***Form Version:***	7
Audit No:	Z273291	***Owner:***	
Tag:	A227261	***Street Name:***	253 QUEEN ST E
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006786262	***Elevation:***	218.230041
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601192
Code OB Desc:		***North83:***	4839254
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/19/2017	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	digit
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006966555
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	01
Other Materials:	FILL
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	0
Formation End Depth:	27
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006966562
Layer:	1
Plug From:	0
Plug To:	0.9
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006966563
Layer:	2
Plug From:	0.9
Plug To:	2.7
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	9
Method Construction:	Driving
Other Method Construction:	

Pipe Information

Pipe ID:	1006966554
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006966558
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.2
Casing Diameter:	3.8
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006966559
Layer:	1
Slot:	10
Screen Top Depth:	1.2
Screen End Depth:	2.7
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4

Hole Diameter

Hole ID:	1006966556
Diameter:	10
Depth From:	0
Depth To:	2.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

83 ***1 of 1*** ***NNW/295.8*** ***218.8 / 4.00*** ***ON*** ***WWIS***

Well ID:	4909989	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	12/20/2005
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7201
Casing Material:		***Form Version:***	3
Audit No:	Z32668	***Owner:***	
Tag:	A026828	***Street Name:***	269 QUEEN ST
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11323722	***Elevation:***	
DP2BR:	6	***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:	h	***East83:***	
Code OB Desc:	Mixed in a Layer	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	
Date Completed:	11/21/2005	***UTMRC Desc:***	
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	933021953
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	11
Other Materials:	GRAVEL
Mat3:	77
Other Materials:	LOOSE
Formation Top Depth:	0
Formation End Depth:	6
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	933021955
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	26
Other Materials:	ROCK
Mat3:	
Other Materials:	
Formation Top Depth:	10
Formation End Depth:	10.33
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	933021956
Layer:	4
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	81
Other Materials:	SANDY
Mat3:	91
Other Materials:	WATER-BEARING
Formation Top Depth:	10.33
Formation End Depth:	17.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	933021954
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT

Mat2: 28
Other Materials: SAND
Mat3: 15
Other Materials: LIMESTONE
Formation Top Depth: 6
Formation End Depth: 10
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283519
Layer: 3
Plug From: 4
Plug To: 17.5
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283520
Layer: 1
Plug From: 0
Plug To: 0.5
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283518
Layer: 2
Plug From: 0.5
Plug To: 4
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11338577
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930866775
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 5
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Hole Diameter

Hole ID:	11543591
Diameter:	4.5
Depth From:	0
Depth To:	17.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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84 ***1 of 1*** ***SW/266.1*** ***218.8 / 4.00*** ***ON*** ***BORE***

Borehole ID:	653076	***Inclin FLG:***	No
OGF ID:	215553427	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JUN-1970	***Municipality:***	
Static Water Level:	0.1	***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.696677
Total Depth m:	1.8	***Longitude DD:***	-79.742214
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	601355
Drill Method:	Power auger	***Northing:***	4838953
Orig Ground Elev m:	219	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	218		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218538005	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	Moist
Bottom Depth:	.6	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:	organic material	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	organic
Gsc Material Description:			
Stratum Description:	SOIL,ORGANIC. BROWN,MOIST.		

Geology Stratum ID:	218538006	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	Moist
Bottom Depth:	1.8	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	Quaternary
Material 4:	Boulders	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 720.8 FEET.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 237380 NTS_Sheet: 30M12G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

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85 **1 of 21** **S/296.7** **219.8 / 5.00**

FINAL RECYCLING
38 HANSEN RD. 38 HANSEN RD., BRAMPTON
BRAMPTON CITY ON

SPL

Ref No:	104741	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	9/1/1994	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	WASTEWATER DISCHARGE TO WATERCOURSE	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21101
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	WORKS
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	9/1/1994	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	INTENTIONAL/PLANNED	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	FINAL RECYCLING.: DIRTY PROCESS WATER ALLOWED TO RUN INTO STORM, WORKS.		
Contaminant Qty:			

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85 **2 of 21** **S/296.7** **219.8 / 5.00**

FINOLL RECYCLING LTD.
38 HANSEN RD S
BRAMPTON ON L6W 3H4

SCT

Established:	1992
Plant Size (ft²):	43000
Employment:	7

--Details--

Description:	CUT STONE & STONE PRODUCTS
SIC/NAICS Code:	3281
Description:	ASPHALT PAVING MIXTURES & BLOCKS
SIC/NAICS Code:	2951

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: ASPHALT FELTS & COATINGS
SIC/NAICS Code: 2952

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85 | 3 of 21 | S/296.7 | 219.8 / 5.00 | **Finoll Recycling Limited**
38 Hansen Road South CITY OF BRAMPTON
ON | ORD

EBR Registry No: IA9E0587
Ministry Ref No: CR99002
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 06, 2001
Proposal Date: May 07, 1999
Year: 1999
Instrument Type: (EPA s. 136) - Order for performance of environmental measures.
Off Instrument Name:
Posted By:
Company Name: Finoll Recycling Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 38 Hansen Road South, Brampton Ontario, L6W 3H4
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

38 Hansen Road South CITY OF BRAMPTON

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85 | 4 of 21 | S/296.7 | 219.8 / 5.00 | **CUMMINGS SIGNS OF CANADA LIMITED**
38 HANSEN ROAD SOUTH
BRAMPTON ON L6W 3H4 | GEN

Generator No: ON0560500
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3971
SIC Description: SIGN & DISPLAY IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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85 | 5 of 21 | S/296.7 | 219.8 / 5.00 | **CUMMINGS SIGNS OF CANADA LIMITED 11-161**
38 HANSEN ROAD SOUTH
BRAMPTON ON L6W 3H4 | GEN

Generator No: ON0560500
Status:
Approval Years: 92,93,94,95,96,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 3971
SIC Description: SIGN & DISPLAY IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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85 ***6 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***AADCO VEHICLE DISPOSAL SERVICES INC.***
38 HANSEN RD S
BRAMPTON ON L6W 3H4 ***GEN***

Generator No: ON6725541
Status:
Approval Years: 05,06
Contam. Facility:
MHSW Facility:
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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85 ***7 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***2157437 ONT INC.***
38 HANSEN RD S
BRAMPTON ON L6W 3H4 ***GEN***

Generator No: ON6725541
Status:
Approval Years: 07,08
Contam. Facility:
MHSW Facility:
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

85 ***8 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***AADCO AUTO PARTS***
38 HANSEN RD S
BRAMPTON ON L6W 3H4 ***AUWR***

Headcode: 00098600
Headcode Desc: AUTOMOBILE WRECKING & RECYCLING

Phone:
List Name:
Description:

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85 **9 of 21** **S/296.7** **219.8 / 5.00** **2157437 ONT INC.** **GEN**
38 HANSEN RD S
BRAMPTON ON L6W 3H4

Generator No: ON6725541 **PO Box No:**
Status: **Country:**
Approval Years: 2009 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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85 **10 of 21** **S/296.7** **219.8 / 5.00** **2157437 ONT INC.** **GEN**
38 HANSEN RD S
BRAMPTON ON L6W 3H4

Generator No: ON6725541 **PO Box No:**
Status: **Country:**
Approval Years: 2010 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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85 **11 of 21** **S/296.7** **219.8 / 5.00** **2157437 ONT INC.** **GEN**
38 HANSEN RD S
BRAMPTON ON L6W 3H4

Generator No: ON6725541 **PO Box No:**
Status: **Country:**
Approval Years: 2011 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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85 ***12 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***2157437 ONT INC.***
38 HANSEN RD S
BRAMPTON ON L6W 3H4 ***GEN***

Generator No: ON6725541
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

85 ***13 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***AADCO AUTO PARTS***
38 HANSEN RD S
BRAMPTON ON L6W3H4 ***AUWR***

Headcode: 00096400
Headcode Desc: AUTOMOBILE PARTS & SUPPLIES USED & REBU
Phone: 9057899313
List Name:
Description:

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85 ***14 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***AADCO AUTO PARTS***
38 HANSEN RD S
BRAMPTON ON L6W3H4 ***AUWR***

Headcode: 00098600
Headcode Desc: AUTOMOBILE WRECKING & RECYCLING
Phone: 9057899313
List Name: INFO-DIRECT(TM) BUSINESS FILE
Description:

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85 ***15 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***2157437 ONT INC.***
38 HANSEN RD S
BRAMPTON ON ***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON6725541
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 441310
SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

85	16 of 21	S/296.7	219.8 / 5.00	2157437 ONTARIO INC. 38 HANSEN RD S BRAMPTON ON L6W 3H4	WDS

Approval No: R-007-6662968269
Mob Unit Cert No:
EBR Registry No:
Status: REGISTERED
Facility Type:
Record Type: EASR
Link Source: MOFA
Project Type: End-of-Life Vehicle Waste Disposal Sites
Application Status:
Issue Date: 2016-09-30
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: EASR-End-of-Life Vehicle Waste Disposal Sites
Proponent:
Prop Address:
Proponent County/District:
Full Address: 38 HANSEN RD S
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2025766

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County:
SWP Area Name: Toronto
MOE District: Halton-Peel
District Office:
Latitude: 43.695
Longitude: -79.74055556
Geometry X: -79.74055556
Geometry Y: 43.695

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
85	17 of 21	S/296.7	219.8 / 5.00	2157437 ONT INC. 38 HANSEN RD S BRAMPTON ON L6W 3H4	GEN

Generator No: ON6725541
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 441310
SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
85	18 of 21	S/296.7	219.8 / 5.00	2157437 ONT INC. 38 HANSEN RD S BRAMPTON ON L6W 3H4	GEN

Generator No: ON6725541
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 441310
SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
85	19 of 21	S/296.7	219.8 / 5.00	2157437 ONT INC. 38 HANSEN RD S BRAMPTON ON L6W 3H4	GEN

Generator No: ON6725541
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 441310
SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: BHARTI BG GULATI
Phone No Admin: 9057899310 Ext.401

Detail(s)

Waste Class: 252

Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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85 ***20 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***2157437 ONT INC.*** ***GEN***
38 HANSEN RD S
BRAMPTON ON L6W 3H4

Generator No:	ON6725541	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Dec 2018	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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85 ***21 of 21*** ***S/296.7*** ***219.8 / 5.00*** ***2157437 ONT INC.*** ***GEN***
38 HANSEN RD S
BRAMPTON ON L6W 3H4

Generator No:	ON6725541	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Oct 2019	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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86 ***1 of 1*** ***E/297.4*** ***211.6 / -3.23*** ***BRAMPTON ON*** ***WWIS***

Well ID:	7251167	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	10/30/2015
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	

Water Type:		***Contractor:***	7241
Casing Material:		***Form Version:***	7
Audit No:	Z212209	***Owner:***	
Tag:	A188696	***Street Name:***	98-100 RUTHERFORD RD.
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	WKQ-008321 A0-A012
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005773928	***Elevation:***	211.934143
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601862
Code OB Desc:		***North83:***	4839181
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/5/2015	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005797853
Layer:	4
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	20
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005797851
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	
Other Materials:	
Mat3:	

Other Materials:
Formation Top Depth: 5
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005797852
Layer: 3
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005797850
Layer: 1
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797864
Layer: 3
Plug From: 9
Plug To: 20
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797862
Layer: 1
Plug From: 0
Plug To: 1
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005797863
Layer: 2

Plug From: 1
Plug To: 9
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1005797849
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005797857
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005797858
Layer: 1
Slot: 10
Screen Top Depth: 10
Screen End Depth: 20
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Hole Diameter

Hole ID: 1005797854
Diameter: 8
Depth From: 0
Depth To: 1
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1005797855
Diameter: 6
Depth From: 1
Depth To: 20
Hole Depth UOM: ft
Hole Diameter UOM: inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
87	1 of 16	W/284.7	217.8 / 3.00	123 Computer Warehouse Inc. 253 Queen St E Unit 2 Brampton ON L6W 2B8	SCT

Established: 01-SEP-86
Plant Size (ft²): 1500
Employment:

--Details--
Description: Electronic and Precision Equipment Repair and Maintenance
SIC/NAICS Code: 811210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
87	2 of 16	W/284.7	217.8 / 3.00	Musclemag International 253 Queen St E Unit 23 Brampton ON L6W 2B8	SCT

Established:
Plant Size (ft²):
Employment: 5

--Details--
Description: Periodical Publishers
SIC/NAICS Code: 511120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
87	3 of 16	W/284.7	217.8 / 3.00	SHELLER-GLOBE OF CANADA LTD. 253 QUEEN ST. E. BRAMPTON ON L6W 2B8	GEN

Generator No: ON0158200
Status:
Approval Years: 86,87,88,89,90,92,93,94
Contam. Facility:
MHSW Facility:
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
87	4 of 16	W/284.7	217.8 / 3.00	Sears Canada Inc. 253 Queen Street e Brampton ON L6W 2B8	GEN

Generator No: ON9442409
Status:
Approval Years: 04,05
Contam. Facility:
MHSW Facility:
SIC Code: 443110
SIC Description: Appliance Television and Other Electronics Stores

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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87 | **5 of 16** | **W/284.7** | **217.8 / 3.00** | **253 Queen Street East Brampton ON L6W 2B8** | **EHS**

Order No: 20061208026
Status: O
Report Type: Basic Report
Report Date: 12/19/2006
Date Received: 12/8/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.744599
Y: 43.699599

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87 | **6 of 16** | **W/284.7** | **217.8 / 3.00** | **lot 5 con 2 BRAMPTON ON** | **WWIS**

Well ID: 4909757
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z25939
Tag: A025457
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 5/27/2005
Selected Flag: Yes
Abandonment Rec:
Contractor: 7075
Form Version: 3
Owner:
Street Name: 253 QUEEN STREET EAST
County: PEEL
Municipality: BRAMPTON CITY
Site Info:
Lot: 005
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11323490
DP2BR: 16
Spatial Status:
Code OB: h
Code OB Desc: Mixed in a Layer
Open Hole:
Cluster Kind:
Date Completed: 5/5/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method: na

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	933021392
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	84
Other Materials:	SILTY
Mat3:	66
Other Materials:	DENSE
Formation Top Depth:	0.25
Formation End Depth:	2.2
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933021391
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	01
Other Materials:	FILL
Formation Top Depth:	0
Formation End Depth:	0.25
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933021393
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	2.2
Formation End Depth:	4.8
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933021394
Layer:	4
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT

Mat2: 17
Other Materials: SHALE
Mat3: 74
Other Materials: LAYERED
Formation Top Depth: 4.8
Formation End Depth: 5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933269429
Layer: 1
Plug From: 0
Plug To: 3
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933269430
Layer: 2
Plug From: 3
Plug To: 5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 11338345
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930866556
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.1
Depth To: 3.5
Casing Diameter: 4.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933412814
Layer: 1
Slot:
Screen Top Depth: 3.5
Screen End Depth: 5
Screen Material: 5

Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	5.5

Results of Well Yield Testing

Pump Test ID:	994909757
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	3
Water State After Test:	OTHER
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	N

Water Details

Water ID:	934060274
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	3
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11543378
Diameter:	20
Depth From:	0
Depth To:	5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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87 | ***7 of 16*** | ***W/284.7*** | ***217.8 / 3.00*** | ***Homedale-Eagle Corporation***
253 Queen Street East
Brampton ON L6W 2B8 | ***GEN***

Generator No:	ON5877869	**PO Box No:**	
Status:		**Country:**	
Approval Years:	06	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	531310		
SIC Description:	Real Estate Property Managers		

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

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87 | ***8 of 16*** | ***W/284.7*** | ***217.8 / 3.00*** | ***Homedale-Eagle Corporation***
253 Queen Street East
Brampton ON L6W 2B8 | ***GEN***

Generator No: ON5877869
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 531310
SIC Description: Real Estate Property Managers

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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87 ***9 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Generator No: ON5877869
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 531310
SIC Description: Real Estate Property Managers

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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87 ***10 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Generator No: ON5877869
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 531310
SIC Description: Real Estate Property Managers

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

87 ***11 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON

Generator No: ON5877869
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

87 ***12 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Generator No: ON5877869
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Rob Hoag
Phone No Admin: 519-804-7408 Ext.301

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

87 ***13 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Generator No: ON5877869
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Rob Hoag
Phone No Admin: 519-804-7408 Ext.301

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

87 ***14 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***Homedale-Eagle Corporation*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Generator No: ON5877869
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

87 ***15 of 16*** ***W/284.7*** ***217.8 / 3.00*** ***253 Queen Street Inc.*** ***GEN***
253 Queen Street East
Brampton ON L6W 2B8

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON5877869
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 241 T
Waste Class Desc: Halogenated solvents and residues

---

87 | ***16 of 16*** | ***W/284.7*** | ***217.8 / 3.00*** | ***253 Queen Street Inc.***
253 Queen Street East
Brampton ON L6W 2B8 | ***GEN***

Generator No: ON5877869
Status: Registered
Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241 T
Waste Class Desc: Halogenated solvents and residues

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

88 | ***1 of 4*** | ***N/299.2*** | ***216.7 / 1.87*** | ***MCLEAN'S RENTAL'S***
279 QUEEN STREET EAST
BRAMPTON ON L6W 2C2 | ***GEN***

Generator No: ON1175200
Status:
Approval Years: 89
Contam. Facility:
MHSW Facility:
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

---

88 | ***2 of 4*** | ***N/299.2*** | ***216.7 / 1.87*** | ***MCLEAN'S EQUIPMENT RENTA L BRAMPTON INC.***
279 QUEEN STREET EAST
BRAMPTON ON L6W 2C2 | ***GEN***

Generator No: ON1175200
Status:
Approval Years: 92,93,97,98,99,00,01
PO Box No:
Country:
Choice of Contact:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contam. Facility:
MHSW Facility:
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

---

88 | ***3 of 4*** | ***N/299.2*** | ***216.7 / 1.87*** | ***MCLEAN'S EQUIPMENT RENTAL 26-359 (BRAMPTON) INC. 279 QUEEN ST. E. BRAMPTON ON L6W 2C2*** | ***GEN***

Generator No: ON1175200
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

---

88 | ***4 of 4*** | ***N/299.2*** | ***216.7 / 1.87*** | ***McLean's Equipment Rental Brampton Inc. 279 Queen st. E Unit D&E Brampton ON L6W 2C2*** | ***GEN***

Generator No: ON5165777
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

89 | ***1 of 1*** | ***SSW/286.5*** | ***219.0 / 4.19*** | ***ON*** | ***BORE***

Borehole ID: 653078
OGF ID: 215553429
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JUN-1970
Static Water Level: 0.2
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 1.8
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Cable tool
Orig Ground Elev m: 219
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.696309
Longitude DD: -79.741477
UTM Zone: 17
Easting: 601415
Northing: 4838913
Location Accuracy:

Elev Reliabil Note: **Accuracy:** Not Applicable
DEM Ground Elev m: 219
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218538009 **Mat Consistency:**
Top Depth: 0 **Material Moisture:** Moist
Bottom Depth: .8 **Material Texture:**
Material Color: Black **Non Geo Mat Type:**
Material 1: Soil **Geologic Formation:**
Material 2: organic material **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:** organic
Gsc Material Description:
Stratum Description: SOIL,ORGANIC. BLACK,MOIST.

Geology Stratum ID: 218538010 **Mat Consistency:**
Top Depth: .8 **Material Moisture:** Moist
Bottom Depth: 1.8 **Material Texture:**
Material Color: Brown **Non Geo Mat Type:**
Material 1: Till **Geologic Formation:**
Material 2: Silt **Geologic Group:**
Material 3: Clay **Geologic Period:** Quaternary
Material 4: Boulders **Depositional Gen:**
Gsc Material Description:
Stratum Description: TILL,SILT,CLAY, BOULDERS. BROWN,MOIST,AGE QUATERNARY, WATER STABLE AT 720.5 FEET.

Source

Source Type: Data Survey **Source Appl:** Spatial/Tabular
Source Orig: Geological Survey of Canada **Source Iden:** 1
Source Date: 1956-1972 **Scale or Res:** Varies
Confidence: H **Horizontal:** NAD27
Observatio: **Verticalda:** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 237400 NTS_Sheet: 30M12G
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier: 1 **Horizontal Datum:** NAD27
Source Type: Data Survey **Vertical Datum:** Mean Average Sea Level
Source Date: 1956-1972 **Projection Name:** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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90 **1 of 3** **WSW/273.7** **217.8 / 3.00** **BRAMPTON AUTO SUPPLY**
16 HANSON RD.
BRAMPTON ON L6W 3H4 **GEN**

Generator No: ON1025500 **PO Box No:**
Status: **Country:**
Approval Years: 88,89,90 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 3251
SIC Description: VEHICLE ENGINE IND.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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90 ***2 of 3*** ***WSW/273.7*** ***217.8 / 3.00*** ***BRAMPTON AUTO (OUT OF BUSINESS) 06-314***
16 HANSON RD.
BRAMPTON ON L6W 3H4 ***GEN***

Generator No: ON1025500
Status:
Approval Years: 92,93,94,95,96,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 3251
SIC Description: VEHICLE ENGINE IND.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

---

90 ***3 of 3*** ***WSW/273.7*** ***217.8 / 3.00*** ***Mini Van Super Store<UNOFFICIAL>***
16 Hansen Rd CAR REPAIR SHOP
BLDG<UNOFFICIAL>
Brampton ON ***SPL***

Ref No: 3315-6W2HSF
Site No:
Incident Dt: 11/30/2006
Year:
Incident Cause: Discharge or Emission to Air
Incident Event:
Contaminant Code: 46
Contaminant Name: FIRE WATER (PARTICULATE CONTAMINANT)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Air Pollution; Human Health/Safety; Other Impact(s); Surface Water Pollution
Receiving Medium: Water & Air
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/30/2006
Dt Document Closed:
Incident Reason: Fire/Explosion - Resulting from fires/explosions (Not occurrences which cause a fire or explosion)
Site Name: 16 HANSEN RD
Site County/District:
Site Geo Ref Meth:
Incident Summary: Brampton: fire involving paint shop
Contaminant Qty: Not Specified

Discharger Report:
Material Group: Wastes
Health/Env Conseq:
Client Type:
Sector Type: Other
Agency Involved:
Nearest Watercourse:
Site Address: 16 HANSEN RD
Site District Office: Halton-Peel
Site Postal Code:
Site Region:
Site Municipality: Brampton
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

---

91 ***1 of 2*** ***WSW/279.0*** ***217.8 / 3.00*** ***Brampton Vee World Motors Ltd.***
10 Hansen Rd S
Brampton ON L6W 3H4 ***SCT***

Established: 01-AUG-75
Plant Size (ft²): 5000
Employment:

--Details--
Description: Motor Vehicle Gasoline Engine and Engine Parts Manufacturing
SIC/NAICS Code: 336310

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91 **2 of 2** **WSW/279.0** **217.8 / 3.00** **Brampton Vee World Motors Limited** **ECA**
6-10 Hansen Rd S
Brampton ON L6W 3H4

Approval No: 3525-8HDRNK
Approval Date: 2011-06-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Toronto
Approval Type: ECA-AIR
Project Type: AIR
Address: 6-10 Hansen Rd S
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8850-8CTLSX-14.pdf

MOE District: Halton-Peel
City:
Longitude: -79.74558999999999
Latitude: 43.69873
Geometry X:
Geometry Y:

---

92 **1 of 10** **SSW/297.1** **219.8 / 5.00** **AMERICAN AIR (OUT OF BUSINESS) 02-481** **GEN**
34 HANSEN ROAD SOUTH
BRAMPTON ON L6W 3H4

Generator No: ON1418400
Status:
Approval Years: 92,93,94,95,96,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 3999
SIC Description: OTHER MANU. PROD.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

---

92 **2 of 10** **SSW/297.1** **219.8 / 5.00** **VR FURNITURE** **GEN**
34 HANSON RD.
BRAMPTON ON L6W 3H4

Generator No: ON7318779
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

SIC Code:
SIC Description:

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

---

92 ***3 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Bramsen Holdings Inc***
34 Hansen Road South
Brampton ON ***GEN***

Generator No: ON2613674
Status:
Approval Years: 03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

---

92 ***4 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Freedom Group Inc***
34 Hansen Road South
Brampton ON ***GEN***

Generator No: ON9339756
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 321920
SIC Description: Wood Container and Pallet Manufacturing
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

---

92 ***5 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Freedom Group Inc***
34 Hansen Road South
Brampton ON ***GEN***

Generator No: ON9339756
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 321920
SIC Description: WOOD CONTAINER AND PALLET MANUFACTURING
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

92 ***6 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Roberts Company Canada Limited***
34 Hansen Rd. S.
Brampton ON L6W 3H4 ***GEN***

Generator No: ON7468692
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Donald B Graydon
Phone No Admin: 9057914444 Ext.

SIC Code: 416390
SIC Description: OTHER SPECIALTY-LINE BUILDING SUPPLIES WHOLESALER-DISTRIBUTORS

Detail(s)

Waste Class: 231
Waste Class Desc: LATEX WASTES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

---

92 **7 of 10** **SSW/297.1** **219.8 / 5.00** **Freedom Group Inc** **GEN**
34 Hansen Road South
Brampton ON L6W 3H4

Generator No: ON9339756
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 321920
SIC Description: WOOD CONTAINER AND PALLET MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Robert Orzel
Phone No Admin: 905 857 7939 Ext.

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

92 **8 of 10** **SSW/297.1** **219.8 / 5.00** **Freedom Group Inc** **GEN**
34 Hansen Road South
Brampton ON L6W 3H4

Generator No: ON9339756
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 321920
SIC Description: WOOD CONTAINER AND PALLET MANUFACTURING

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Robert Orzel
Phone No Admin: 905 857 7939 Ext.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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92 ***9 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Roberts Company Canada Limited*** ***GEN***
34 Hansen Rd. S.
Brampton ON L6W 3H4

Generator No: ON7468692
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 231 L
Waste Class Desc: Latex wastes

Waste Class: 232 L
Waste Class Desc: Polymeric resins

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 B
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 265 L
Waste Class Desc: Graphic arts wastes

Waste Class: 268 C
Waste Class Desc: Amines

---

92 ***10 of 10*** ***SSW/297.1*** ***219.8 / 5.00*** ***Roberts Company Canada Limited*** ***GEN***
34 Hansen Rd. S.
Brampton ON L6W 3H4

Generator No: ON7468692
Status: Registered
Approval Years: As of Oct 2019

PO Box No:
Country: Canada
Choice of Contact:

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code:
SIC Description:

Detail(s)

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 232 L
Waste Class Desc: Polymeric resins

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 265 L
Waste Class Desc: Graphic arts wastes

Waste Class: 231 L
Waste Class Desc: Latex wastes

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Desc: Amines

Waste Class: 263 B
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

---

93 ***1 of 1*** ***W/301.1*** ***217.8 / 3.00*** ***Brampton ON*** ***WWIS***

Well ID:	7122312	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	4/23/2009
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7282
Casing Material:		***Form Version:***	5
Audit No:	M03121	***Owner:***	
Tag:	A064061	***Street Name:***	253 QUEEN ST.
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1002755699	***Elevation:***	218.404159
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601178
Code OB Desc:		***North83:***	4839290
Open Hole:		***Org CS:***	UTM83
Cluster Kind:	This is a record from cluster log sheet	***UTMRC:***	3
Date Completed:	3/12/2009	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002755703
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	
Method Construction:	
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1002755704
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002755706
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.64
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m

Construction Record - Screen

Screen ID: 1002755705
Layer:
Slot:
Screen Top Depth: 2.76
Screen End Depth: 4.26
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002755707
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002755701
Diameter: 20.95
Depth From:
Depth To: 4.26
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002755744
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 3/13/2009
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 218.108749
Elevrc:
Zone: 17
East83: 601187
North83: 4839225
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1002755748
Layer:

Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID:
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002755749
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002755751
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002755750
Layer:
Slot:
Screen Top Depth: 1.5
Screen End Depth: 3
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002755752
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID:	1002755746
Diameter:	20.95
Depth From:	
Depth To:	3
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1002418729	***Elevation:***	218.292572
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601167
Code OB Desc:		***North83:***	4839235
Open Hole:	N	***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	3/12/2009	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002755757
Layer:	4
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	3.65
Formation End Depth:	4.57
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002755755
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.6
Formation End Depth:	1.8
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1002755756
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	1.8
Formation End Depth:	3.65
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002755754
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Other Materials:	
Mat3:	79
Other Materials:	PACKED
Formation Top Depth:	0
Formation End Depth:	0.6
Formation End Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1002755753
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002755759
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	4.57
Casing Diameter:	5.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID: 1002755760
Layer: 1
Slot: 10
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.03

Hole Diameter

Hole ID: 1002755758
Diameter: 20.95
Depth From: 0
Depth To: 4.57
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002755708
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 3/12/2009
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 218.115798
Elevrc:
Zone: 17
East83: 601202
North83: 4839240
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1002755712
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID:
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002755713
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1002755715
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.04
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002755714
Layer:	
Slot:	
Screen Top Depth:	3.07
Screen End Depth:	4.57
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1002755716
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1002755710
Diameter:	20.95
Depth From:	
Depth To:	4.57
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1002755726	***Elevation:***	218.085647
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	601227
Code OB Desc:		***North83:***	4839340
Open Hole:		***Org CS:***	UTM83
Cluster Kind:	This is a record from cluster log sheet	***UTMRC:***	3
Date Completed:	3/13/2009	***UTMRC Desc:***	margin of error : 10 - 30 m

Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID: 1002755730
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID:
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002755731
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002755733
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.04
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002755732
Layer:
Slot:
Screen Top Depth: 2.76
Screen End Depth: 4.26
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002755734
Pump Set At:
Static Level:

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002755728
Diameter: 20.95
Depth From:
Depth To: 4.26
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002755717
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 3/12/2009
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 217.334121
Elevrc:
Zone: 17
East83: 601244
North83: 4839140
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1002755721
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID:
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002755722
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002755724
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.82
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002755723
Layer:
Slot:
Screen Top Depth: 1.85
Screen End Depth: 3.35
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002755725
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002755719
Diameter: 20.95
Depth From:
Depth To: 3.35
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002755735
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Elevation: 218.292572
Elevrc:
Zone: 17
East83: 601167
North83: 4839235

Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	3/13/2009	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002755739
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	
Method Construction Code:	
Method Construction:	
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1002755740
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002755742
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.04
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002755741
Layer:	
Slot:	
Screen Top Depth:	2.76
Screen End Depth:	4.26
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID: 1002755743
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002755737
Diameter: 20.95
Depth From:
Depth To: 4.26
Hole Depth UOM: m
Hole Diameter UOM: cm

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94 | ***1 of 1*** | ***W/295.9*** | ***217.8 / 3.00*** | ***Brampton Vee World Motors Limited***
6-10 Hansen Rd S
Brampton ON L6W 3H4 | ***CA***

Certificate #: 3525-8HDRNK
Application Year: 2011
Issue Date: 6/9/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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95 | ***1 of 1*** | ***SW/291.9*** | ***218.8 / 4.00*** | ***East of Chinguacousy Rd***
Brampton ON | ***EHS***

Order No: 20070807032
Status: C
Report Type: CAN - Custom Report
Report Date: 8/17/2007
Date Received: 8/7/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection: Chinguacousy Road and Ray Lawson Blvd
Municipality: Peel
Client Prov/State:
Search Radius (km): 0.25
X: -79.743256
Y: 43.696913

Unplottable Summary

Total: 37 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	The Corporation of the City of Brampton	Heart Lake Road	Brampton ON	
CA	LONGMOOR BUILDING CO.	RUTHERFORD RD. LONGMOOR IND.	BRAMPTON CITY ON	
CA	Heart Lake Road Developers Group Inc.	Heart Lake Road	Brampton ON	
CA	Chinguacousy Road Widening	Between Queen Street & S. of CN Halton Subd.	Brampton ON	
CA	Orenda Plant	Part of Lot 4, Concession 2	Brampton ON	
CA	REG. MUN. OF PEEL	HEART LAKE RD.	BRAMPTON CITY ON	
CA	The Regional Municipality of Peel	Queen Street East from Airport Road to Beaumaris Dr	Brampton ON	
CA	LONGMOOR BUILDING CO.	RUTHERFORD RD. LONGMOOR IND.	BRAMPTON CITY ON	
CA	MANAGEMENT BOARD SECRETARIAT	HEART LAKE RD. SEW. LIFT STA.	BRAMPTON CITY ON	
CA	846456 ONTARIO LTD.	HEART LAKE RD./STREETS A-E	BRAMPTON CITY ON	
CA	747656 ONTARIO LIMITED	RUTHERFORD RD. SOUTH	BRAMPTON CITY ON	
CA	PLANMAC LACKEY INC.	CLARK BLVD.	BRAMPTON CITY ON	
CA	ODG DEVELOPMENT LIMITED - PRIVATE	EASEMENT/QUEEN STREET E.	BRAMPTON CITY ON	
CA	846456 ONTARIO LTD.	HEART LAKE RD/A. DONNELLY SUB.	BRAMPTON CITY ON	
CA	PILLER INVESTMENTS LTD.- PT. BLOCK K	QUEEN ST. E/RP# 518	BRAMPTON CITY ON	
CA	The Butcher Engineering Enterprises Limited	Part of Lot 4, Concession 2	Brampton ON	
CA	KNECHT AND BERCHTOLD LIMITED	RUTHERFORD RD. SOUTH	BRAMPTON CITY ON	

CA	PLANMAC LACKEY INC.	CLARK BLVD. MASCITELLI-SCIACCA	BRAMPTON CITY ON	
CA	Manorbay Estates Inc.	Queen St E	Brampton ON	
CA	ODG DEVELOPMENTS LIMITED - PRIVATE	EASEMENT/RUTHERFORD ROAD S.	BRAMPTON CITY ON	
CA	Crupi Enterprises Inc.	Heart Lake Road	Brampton ON	
EBR	The Butcher Engineering Enterprises Limited	Part of Lot 4, Concession 2 Brampton Ontario Brampton	ON	
EBR	The Butcher Engineering Enterprises Limited	Part of Lot 4, Concession 2 Brampton Ontario Brampton	ON	
EHS		South of Queen St.	Brampton ON	
EHS		South of Queen St	Brampton ON	
EHS		Queen St E From Centre St N to Hwy 410	Brampton ON	
GEN	Queen Lynch Co-Tenancy	Queen Street	Brampton ON	L6W 3X4
GEN	Queen Lynch Co-Tenancy	Queen Street	Brampton ON	L6W 3X4
GEN	Queen Lynch Co-Tenancy	Queen Street	Brampton ON	
GEN	Queen Lynch Co-Tenancy	Queen Street	Brampton ON	L6W 3X4
PES	LAKESIDE GARDEN CENTRE (C#91761)	R.R. #4, HEART LAKE ROAD	BRAMPTON ON	
PES	LAKESIDE GARDEN CENTRE (C#02/2002)	RR 4, HEART LAKE RD	BRAMPTON ON	L6T 3S1
SPL		Queen Street, East of Credit View	Brampton ON	
SPL	TACC Construction Co. Ltd.	Queen St between Creditview Road and Chingacousy Roads	Brampton ON	
WWIS		lot 4	ON	
WWIS		lot 5	ON	
WWIS		lot 5	ON	

Unplottable Report

Site: ***The Corporation of the City of Brampton***
Heart Lake Road Brampton ON

Database: ***CA***

Certificate #:	6306-6W2RCJ
Application Year:	2006
Issue Date:	12/8/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***LONGMOOR BUILDING CO.***
RUTHERFORD RD. LONGMOOR IND. BRAMPTON CITY ON

Database: ***CA***

Certificate #:	3-0336-87-
Application Year:	87
Issue Date:	3/27/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Heart Lake Road Developers Group Inc.***
Heart Lake Road Brampton ON

Database: ***CA***

Certificate #:	9921-6X9QAG
Application Year:	2007
Issue Date:	1/11/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Chinguacousy Road Widening***
Between Queen Street & S. of CN Halton Subd. Brampton ON

Database: ***CA***

Certificate #:	9940-5AESAZ

Application Year: 02
Issue Date: 5/24/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Brampton
Client Address: 2 Wellington Street West
Client City: Brampton
Client Postal Code: L6Y 4R2
Project Description: This application is for the construction of storm sewers on Chinguacousy Road, in the City of Brampton.
Contaminants:
Emission Control:

Site: ***Orenda Plant***
Part of Lot 4, Concession 2 Brampton ON

Database: ***CA***

Certificate #:
Application Year:
Issue Date:
Approval Type: Industrial air
Status: Returned
Application Type: New Certificate of Approval
Client Name: The Butcher Engineering Enterprises Limited
Client Address: 120 Orenad Road
Client City: Brampton
Client Postal Code: L6W 1W2
Project Description:
Contaminants:
Emission Control:

Site: ***REG. MUN. OF PEEL***
HEART LAKE RD. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-0461-85-006
Application Year: 85
Issue Date: 7/4/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Peel***
Queen Street East from Airport Road to Beaumaris Dr Brampton ON

Database: ***CA***

Certificate #: 7414-7VKGRV
Application Year: 2009
Issue Date: 9/9/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***LONGMOOR BUILDING CO.***
RUTHERFORD RD. LONGMOOR IND. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-0280-87-
Application Year: 87
Issue Date: 3/27/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MANAGEMENT BOARD SECRETARIAT***
HEART LAKE RD. SEW. LIFT STA. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 3-0055-94-
Application Year: 94
Issue Date: 2/24/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***846456 ONTARIO LTD.***
HEART LAKE RD./STREETS A-E BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-0777-93-
Application Year: 93
Issue Date: 9/7/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***747656 ONTARIO LIMITED***
RUTHERFORD RD. SOUTH BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-0920-88-
Application Year: 88
Issue Date: 6/30/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PLANMAC LACKEY INC.***
CLARK BLVD. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-1559-86-
Application Year: 86
Issue Date: 1/9/1987
Approval Type: Municipal water
Status: Approved in 1987
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ODG DEVELOPMENT LIMITED - PRIVATE***
EASEMENT/QUEEN STREET E. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 7-1080-86-
Application Year: 86
Issue Date: 9/19/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***846456 ONTARIO LTD.***
HEART LAKE RD/A. DONNELLY SUB. BRAMPTON CITY ON

Database: ***CA***

Certificate #: 3-0979-93-
Application Year: 93
Issue Date: 9/7/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PILLER INVESTMENTS LTD.-PT. BLOCK K***
QUEEN ST. E/RP# 518 BRAMPTON CITY ON

Database: ***CA***

Certificate #: 3-0616-92-
Application Year: 92

Issue Date: 6/5/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Butcher Engineering Enterprises Limited***
Part of Lot 4, Concession 2 Brampton ON

Database: ***CA***

Certificate #: 8637-5MKLM2
Application Year: 2004
Issue Date: 3/10/2004
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KNECHT AND BERCHTOLD LIMITED***
RUTHERFORD RD. SOUTH BRAMPTON CITY ON

Database: ***CA***

Certificate #: 3-0018-88-
Application Year: 88
Issue Date: 1/19/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PLANMAC LACKEY INC.***
CLARK BLVD. MASCITELLI-SCIACCA BRAMPTON CITY ON

Database: ***CA***

Certificate #: 3-1949-86-
Application Year: 86
Issue Date: 1/9/1987
Approval Type: Municipal sewage
Status: Approved in 1987
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Manorbay Estates Inc.***
Queen St E Brampton ON

Database: ***CA***

Certificate #: 5928-72BJJ8
Application Year: 2007
Issue Date: 4/24/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ODG DEVELOPMENTS LIMITED - PRIVATE EASEMENT/RUTHERFORD ROAD S. BRAMPTON CITY ON***

Database: ***CA***

Certificate #: 3-1358-86-
Application Year: 86
Issue Date: 9/19/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Crupi Enterprises Inc.***
Heart Lake Road Brampton ON

Database: ***CA***

Certificate #: 3815-5TLRDK
Application Year: 2003
Issue Date: 11/26/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Butcher Engineering Enterprises Limited***
Part of Lot 4, Concession 2 Brampton Ontario Brampton ON

Database: ***EBR***

EBR Registry No: IA06E0691
Ministry Ref No: 5234-6Q4RG4
Notice Type: Instrument Decision
Notice Stage:
Notice Date: November 05, 2007
Proposal Date: May 31, 2006
Year: 2006
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Posted By:
Company Name: The Butcher Engineering Enterprises Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 120 Orenda Road, Brampton Ontario, L6W 1W2
Comment Period:
URL:

Site Location Details:

Part of Lot 4, Concession 2 Brampton Ontario Brampton

Site: ***The Butcher Engineering Enterprises Limited***
Part of Lot 4, Concession 2 Brampton Ontario Brampton ON

Database: ***EBR***

EBR Registry No: IA02E0665
Ministry Ref No: 1342-5B8TBJ
Notice Type: Instrument Decision
Notice Stage: 800484849
Notice Date: March 10, 2004
Proposal Date: March 19, 2003
Year: 2003
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: The Butcher Engineering Enterprises Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 120 Orenda Road, Brampton Ontario, L6W 1W2
Comment Period:
URL:

Site Location Details:

Part of Lot 4, Concession 2 Brampton Ontario Brampton

Site:
South of Queen St. Brampton ON

Database: ***EHS***

Order No: 20010509011
Status: C
Report Type: Complete Report
Report Date: 5/11/01
Date Received: 5/8/01
Previous Site Name:
Lot/Building Size: see attached for legal description
Additional Info Ordered:
Nearest Intersection: see maps
Municipality: Peel
Client Prov/State: ON
Search Radius (km): 0.50
X: -79.670009
Y: 43.733416

Site:
South of Queen St Brampton ON

Database: ***EHS***

Order No: 20020201006
Status: C
Report Type: Complete Report
Report Date: 2/5/02
Date Received: 2/1/02
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.50
X: -79.670247
Y: 43.733548

Site: ***Database:*** ***EHS***

Queen St E From Centre St N to Hwy 410 Brampton ON

Order No:	20071121025	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	CAN - Custom Report	***Client Prov/State:***	
Report Date:	11/30/2007	***Search Radius (km):***	0.25
Date Received:	11/21/2007	***X:***	-79.746603
Previous Site Name:		***Y:***	43.690776
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Database:*** ***GEN***

Queen Lynch Co-Tenancy
Queen Street Brampton ON L6W 3X4

Generator No:	ON2854318	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2010	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	531120		
SIC Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Site: ***Database:*** ***GEN***

Queen Lynch Co-Tenancy
Queen Street Brampton ON L6W 3X4

Generator No:	ON2854318	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2011	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	531120		
SIC Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Site: ***Database:*** ***GEN***

Queen Lynch Co-Tenancy
Queen Street Brampton ON

Generator No:	ON2854318	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2013	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	531120		
SIC Description:	LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Site: ***Database:*** ***GEN***

Queen Lynch Co-Tenancy

Queen Street Brampton ON L6W 3X4

Generator No:	ON2854318	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2012	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	531120		
SIC Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Site: ***LAKESIDE GARDEN CENTRE (C#91761)***
R.R. #4, HEART LAKE ROAD BRAMPTON ON

Database: ***PES***

Detail Licence No:		***Operator Box:***	
Licence No:		***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	Vendor	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			

Site: ***LAKESIDE GARDEN CENTRE (C#02/2002)***
RR 4, HEART LAKE RD BRAMPTON ON L6T 3S1

Database: ***PES***

Detail Licence No:	23-01-01986-0	***Operator Box:***	
Licence No:	01986	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	Limited Vendor	***Oper Phone No:***	
Licence Type Code:	23	***Operator Ext:***	
Licence Class:	01	***Operator Lot:***	
Licence Control:	0	***Oper Concession:***	
Latitude:		***Operator Region:***	3
Longitude:		***Operator District:***	
Lot:		***Operator County:***	49
Concession:		***Op Municipality:***	
Region:	3	***Post Office Box:***	
District:		***MOE District:***	
County:	49	***SWP Area Name:***	
Trade Name:			
PDF Link:			

Site:
Queen Street, East of Credit View Brampton ON

Database: ***SPL***

Ref No:	1182-8EUSGF	***Discharger Report:***	
Site No:		***Material Group:***	

Incident Dt:	3/11/2011	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge Or Bypass To A Watercourse	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	***Site Address:***	Queen Street, East of Credit View
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	Brampton
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Priority Field Response (ERP Callout)	***Easting:***	
Dt MOE Arvl on Scn:	3/11/2011	***Site Geo Ref Accu:***	
MOE Reported Dt:	3/11/2011	***Site Map Datum:***	
Dt Document Closed:	5/24/2011	***SAC Action Class:***	Watercourse Spills
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	Springbrook Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Sediment to Springbrook Creek- Endangered Minnow habitat		
Contaminant Qty:			

Site: ***TACC Construction Co. Ltd.***
Queen St between Creditview Road and Chingacousy Roads Brampton ON

Database: ***SPL***

Ref No:	0343-89TVNC	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	
Nature of Impact:	Other Impact(s); Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	NA
MOE Response:	Priority Field Response (ERP Callout)	***Easting:***	NA
Dt MOE Arvl on Scn:	10/2/2010	***Site Geo Ref Accu:***	
MOE Reported Dt:	10/1/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:		***Source Type:***	
Site Name:	Block 5 construction site		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Pumping of water with red sediment into Credit River		
Contaminant Qty:	other - see incident description		

Site:
lot 4 ON

Database: ***WWIS***

Well ID:	6714583	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/23/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	257956	***Owner:***	

Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Street Name:
County: WELLINGTON
Municipality: PEEL TOWNSHIP
Site Info:
Lot: 004
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10548134
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 8/20/2003
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932940160
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 95
Formation End Depth: 104
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932940162
Layer: 4
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 180
Formation End Depth: 182
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932940161
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 104
Formation End Depth: 180
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932940159
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 95
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933244759
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11096704
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930779333
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:

Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996714583
Pump Set At:
Static Level: 20
Final Level After Pumping: 24
Recommended Pump Depth: 80
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934350160
Test Type: Draw Down
Test Duration: 15
Test Level: 24
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934614719
Test Type: Draw Down
Test Duration: 30
Test Level: 24
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934875729
Test Type: Draw Down
Test Duration: 45
Test Level: 24
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935136788
Test Type: Draw Down
Test Duration: 60
Test Level: 24
Test Level UOM: ft

Water Details

Water ID: 934042072
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 182
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
WWIS

Well ID:	6714537	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	8/26/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	257954	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PEEL TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10548088	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	
Code OB Desc:	Overburden	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	8/15/2003	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932939998
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	178
Formation End Depth:	180
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932939997
Layer:	2
Color:	6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 80
Formation End Depth: 178
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932939996
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Other Materials: SAND
Mat3: 12
Other Materials: STONES
Formation Top Depth: 0
Formation End Depth: 80
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933244725
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11096658
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930779266
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	996714537
Pump Set At:	
Static Level:	18
Final Level After Pumping:	19
Recommended Pump Depth:	60
Pumping Rate:	30
Flowing Rate:	
Recommended Pump Rate:	30
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934614681
Test Type:	Draw Down
Test Duration:	30
Test Level:	19
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935136750
Test Type:	Draw Down
Test Duration:	60
Test Level:	19
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934350122
Test Type:	Draw Down
Test Duration:	15
Test Level:	19
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934875691
Test Type:	Draw Down
Test Duration:	45
Test Level:	19
Test Level UOM:	ft

Water Details

Water ID:	934042027
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	178
Water Found Depth UOM:	ft

Water Details

Water ID:	934042028
Layer:	2

Kind Code:	5
Kind:	Not stated
Water Found Depth:	180
Water Found Depth UOM:	ft

Site:
lot 5 ON

Database:
WWIS

Well ID:	4909990	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	12/20/2005
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	7201
Casing Material:		***Form Version:***	3
Audit No:	Z41326	***Owner:***	
Tag:	A026827	***Street Name:***	
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	BRAMPTON CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11323723	***Elevation:***	
DP2BR:	10	***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:	h	***East83:***	
Code OB Desc:	Mixed in a Layer	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	
Date Completed:	11/23/2005	***UTMRC Desc:***	
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	933021958
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	66
Other Materials:	DENSE
Mat3:	
Other Materials:	
Formation Top Depth:	7
Formation End Depth:	10
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 933021960
Layer: 4
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2: 91
Other Materials: WATER-BEARING
Mat3: 77
Other Materials: LOOSE
Formation Top Depth: 15
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 933021957
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 11
Other Materials: GRAVEL
Mat3: 28
Other Materials: SAND
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 933021959
Layer: 3
Color: 7
General Color: RED
Mat1: 34
Most Common Material: TILL
Mat2: 17
Other Materials: SHALE
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 15
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283527
Layer: 2
Plug From: 1
Plug To: 8
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283529
Layer: 3
Plug From: 8
Plug To: 20

Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933283528
Layer: 1
Plug From: 0
Plug To: 1
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11338578
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930866776
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930866777
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Hole Diameter

Hole ID: 11543592
Diameter: 4
Depth From: 0
Depth To: 20
Hole Depth UOM: ft
Hole Diameter UOM: inch

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2019

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Jan 31, 2020

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 - Nov 2019

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2019

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Jan 31, 2020

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2019

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Feb 29, 2020

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Jan 31, 2020

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Feb 29, 2020

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2020

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2018

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Nov 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FED TANKS

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jan 31, 2020

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2017

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2019

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Aug 31, 2019

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2019

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Jan 31, 2020

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Feb 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Jan 31, 2020

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2020

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Jan 31, 2020

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Aug 2019

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Aug 2018

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Feb 29, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Feb 28, 2019

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix E

Ministry of Environment, Conservations and Parks – FOI (PENDING)

Appendix F

Municipal Directories

Property Use Directories, Surrounding Property Use

Site		
Address	***Property Use***	***Years Occupied***
25 Rutherford Road South Includes occupants in Units 1-8	Bramalea Gymnastics Club (Unit 6)	2001
	Brew-By-U (Unit 4)	1995-2001
	Car Shop & Do It Yourself Centre (Unit *8)	2001
	CK & A (Unit 7)	2001
	Classic Bedding Ltd. (Unit 2)	2001
	Economic Insurance Glass Replacement (Unit 3)	2001
	Fantastic Sleep Shop Ltd. (Unit 2)	1995-2001
	Lawson & Lawson Business Products Inc. (Unit 1)	1995-2001
	TVs Electronics (Unit 5)	2001
	Aircity Home Products (Unknown Unit)	1995
	Cameron Kennedy & Associates Limited (Unknown Unit)	1995
	Dzign Interior Planning & Project (Unknown Unit)	1995
	Renocan Construction Ltd. (Unknown Unit)	1995
	Sheer Graphics Inc. (Unknown Unit)	1995
	Gayla-Haugh Kites Limited (Unknown Unit)	1985
	Haugh's Products Ltd. (Unknown Unit)	1981-1985
	Seaway Pools Ltd. (Unknown Unit)	1981
	Not Listed	1967, 1990

#

Northwest		
Address	***Property Use***	***Years Occupied***
255 Queen Street East ~140 m	Stitches	2001
	Rothfield Michael	1995
	Majestic Electronic Superstore	1990
	Majestic Sound Ltd.	1990
	Amsco Canada Division Ingram & Bell Ltd.	1985
	Not Listed	1981
	American Sterilizer Co Of Canada Ltd	1964-1967
253 Queen Street East ~140 m	Not Listed	2001
	1 2 3 Computer Warehouse Inc.	1995
	Canadian Sound	1995
	D & T Fast Food	1995
	Kennedy Hi Fi	1995
	Sears Canada Inc.	1995
	Trio Lighting And Gifts	1995

#

Northwest		
Address	***Property Use***	***Years Occupied***
	Berry Reza	1995
	Brampton Millwrights Inc.	1990
	West Hill Transportation	1990
	Westhill Equipment Sales	1990
	Sheller-Globe Of Canada Ltd.	1967-1985
	Not Listed	1964
18 Hansen Road South ~175 m	Becker Milk Co. Ltd.	1995
	Not Listed	1990
16 Hansen Road South ~175 m	City Collision Experts	2001
	Parent's Variety And Gift	1995
	Able Towing Services	1990
	Brampton Auto Supply	1981-1985
14 Hansen Road South ~185 m	Auto Horse	2001
	Detoro R J Automotive Ltd.	1990-2001
	Coach's Corner	1995
	Eton Technical Services	1990
	Not Listed	1985
	Dionaio Auto Collision Ltd.	1981
10 Hansen Road South ~210 m	Brampton Vee World Motors Ltd.	1981-2001
	Not Listed	1990-1995
8 Hansen Road South ~220 m	West End & Weston Gun Shop Ltd.	1981-1985
6 Hansen Road South ~235 m	Brampton Vee World Body Shop	1985-2001
	Not Listed	1995

#

North		
Address	***Property Use***	***Years Occupied***
19 Rutherford Road South Adjacent	Brampton Home Hardware Buildings Centre	1995-2001
	Brampton Lumber Company Limited	1995
	Not Listed	1990
	Montpro Services	1985
	Canada Ferro Co. Ltd.	1968-1981
5 Rutherford Road South ~90 m	Comfort Inn	1995-2001
	Journeys End Motel	1990
263 Queen Street East ~165 m	Dynamic Golf Centre	2001
	Apple One Employment Services	1995
	Bi Way Drug World	1995
	Bogey's Sandwich Bar	1995
	Country Style Donuts	1990-1995
	Double Top Dart Supplies & Accessories	1995

#

North		
Address	***Property Use***	***Years Occupied***
	First Choice Haircutters	1990-1995
	Framing & Art Centre	1995
	Global Pet Foods	1995
	Hi Fi	2000-2001
	Mascoll Beauty Supply Ltd.	1995
	Multitech Warehouse Direct	1995
	National Bank Of Canada	1990-1995
	Oriental Buffet Restaurants	1995
	Pro Action Physiotherapy	1995
	The Waterbed & Futon Shoppe	1995
	Boston Pizza	1990
	Drug World	1990
	Fairway Carpet Ltd.	1990
	The Framing Experience	1990
	Gems For You	1990
	Nutria System Weight Loss Centres	1990
	Shades Window Coverings	1990
	Trident Optical	1990
	Tung Hing Buffet Restaurant Ltd.	1990
	United Hardware	1990
	Video Show Place	1990
	Zacks Famous Frozen Yogurt	1990
	Chubb Industries Limited	1964-1985
	Not Listed	1967

#

Northeast		
Address	***Property Use***	***Years Occupied***
28 Rutherford Road South ~45 m	Custom Auto Collision	1995-2001
	Two D's Car Care	1995
	Custom Auto Body	1990-1985
	Not Listed	1981
	Johnny's Welding Ltd	1967
	Not Listed	1964
26 Rutherford Road South ~65 m	Perfect Auto Services Ltd.	2001
	Rapid Auto Sales	2001
	Best Bet Autobody Shop	1995
	M D R Auto Service	1995
	Not Listed	1990
	David Fox (Res)	1985
	Marwyn Limited	1981

Northeast		
Address	***Property Use***	***Years Occupied***
	H & H Tool Co	1967
	Not Listed	1964
24 Rutherford Road South ~80 m	Glidden Ici Paint Centre	1995-2001
	Peel Industrial Supplies (1977)	1967-1990
	Mullin Walter Ltd.	1981
	Northern Vibrator Mfg co.	1967
	Not Listed	1964
16 Rutherford Road South ~125 m	830990	2001
	Peel Industrial Supplies (1977) Ltd.	1995-2001
	Regency Systems Corp	2001
	Not Listed	1990
12 Rutherford Road South ~125 m	Performance Improvements Speed Shops Ltd.	2001
	Sports Unlimited Studio	2001
	Thermos Electric (Canada) Ltd.	1985-2001
8 Rutherford Road South ~170 m	St. John Ambulance First Aid Services	1985-2001
	Cheltenham Fire Hall	1981-1990
6 Rutherford Road South ~225 m	Brampton Auto Centre	1995-2001
	Clean Used Car Sales	2001
	V N P Auto Centre Ltd.	1990
	Uniroyal Centres	1981-1985
	Alrta Rent-Alls	1967
	United Rent-Alls	1967
	Not Listed	1964
265 Queens Road East ~225 m	NI	2001
	Brampton Veterinary Hospital	1964-1995
267 Queens Road East ~230 m	NI	2001
	Money Mart Cheque Cashing Centre	1995
	Nappy's Hair Shoppe	1995
	Red Light Adult Video	1995
	Tedmonds Satellite & Cellular	1995
	Brampton Community Credit Union Limited	1990
	Electronic Station	1990
	The Wholesale Travel Group Ltd.	1990
	Achievement Inc.	1985
	Eyeglass Factory Ltd.	1981-1985
	Donut King	1981
	Pioneer Pools	1981
	Not Listed	1967
269 Queens Road East ~235 m	NI	2001
	Plumbing Mart 95 90 85 81	1981-1995
	Swiss Chalet Chicken & Ribs 95 90 85 81	1981-1995

Northeast		
Address	***Property Use***	***Years Occupied***
	Delwinton Carpet And Tile Ltd.	1967
	Glendale Supplies And Industries Ltd	1964-1967
	Peel Earth Boring Ltd	1967
	Andeen Construction Ltd	1964-1967

#

South		
Address	***Property Use***	***Years Occupied***
35 Rutherford Road South Adjacent	Pre-Con Inc.	1981-2001
	Not Listed	1967
	Spun Concrete Structures Canada Ltd Plant	1954
49 Rutherford Road South ~235 m	Peel Plastic Products	1990-2001
	Wheaton Glass Co. Division Of Wheaton Industries Of Canada Ltd.	1967-1985
	Wheaton Plastics Co Of Canada Ltd	1967

#

Appendix G

Technical Standards & Safety Authority – Correspondence

Wu, Wing-Shun

From: Public Information Services <publicinformationservices@tssa.org>
Sent: March 30, 2020 1:28 PM
To: Wu, Wing-Shun
Subject: RE: TSSA Database search - 25 Rutherford Road South, Brampton, ON - Record Fuels

Hello,

I have searched the below noted address (addresses) and I have located the following record:

Inst Number	Context	Address	City	Province	Postal Code	Inststatusname	Segment1
10222100	FS Facility	19 RUTHERFORD RD S Suite 3	BRAMPTON	ON	L6W 3J3	EXPIRED	FS CYLINDER EXCHANGE

Inst Number	Context	Address	City	Province	Postal Code	Inststatusname	Segment1
9955237	FS Facility	35 RUTHERFORD RD S HANSEN RD ENTRANCE	BRAMPTON	ON	L6W 3J4	EXPIRED	FS PRIVATE FUEL OUTLET - SELF SERVE
11115190	FS Liquid Fuel Tank	35 RUTHERFORD RD S HANSEN RD ENTRANCE	BRAMPTON	ON	L6W 3J4	EXPIRED	FS LIQUID FUEL TANK
11115218	FS Liquid Fuel Tank	35 RUTHERFORD RD S HANSEN RD ENTRANCE	BRAMPTON	ON	L6W 3J4	EXPIRED	FS LIQUID FUEL TANK

Inst Number	Context	Address	City	Province	Postal Code	Inststatusname	Segment1
64655211	-	36 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS PROPANE CYLR HANDLING FACILITY
64678458	FS Propane Tank	36 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS PROPANE TANK
64678448	FS Propane Facility	36 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS PROPANE FILLING PLT > 5000 USW
64678457	FS Propane Tank	36 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS PROPANE TANK

Inst Number	Context	Address	City	Province	Postal Code	Inststatusname	Segment1
9296404	FS Facility	52 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS PRIVATE FUEL OUTLET - SELF SERVE
10601095	FS Liquid Fuel Tank	52 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS LIQUID FUEL TANK
10601050	FS Liquid Fuel Tank	52 RUTHERFORD RD S	BRAMPTON	ON	L6W 3J5	Active	FS LIQUID FUEL TANK

Effective November 1, 2017 TSSA requires that any requests for the release of public information, must complete the release for public information form. The release for public information form can be found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392. Please complete the form (1 address per form) and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thank you,

Roxana

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Wu, Wing-Shun <Wing-Shun.Wu@snclavalin.com>
Sent: March 30, 2020 12:18 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Database search - 25 Rutherford Road South, Brampton, ON

Hello,

I would like to inquire if there any records in the TSSA database for the following properties:

- 25 Rutherford Road South, Brampton, ON
- 19 Rutherford Road South, Brampton, ON
- 28 Rutherford Road South, Brampton, ON
- 32 Rutherford Road South, Brampton, ON
- 35 Rutherford Road South, Brampton, ON
- 36 Rutherford Road South, Brampton, ON
- 40 Rutherford Road South, Brampton, ON
- 52 Rutherford Road South, Brampton, ON

If there are records associated with any of these addresses, could you please provide a quote to obtain the records?

Thank you,
Wing

Wing-Shun Wu, *M.Env.Sc*
Environmental Scientist
Environment & Geoscience
Engineering, Design and Project Management

Tel.: +1(416)635-5882 x 55828
Fax: 416-635-5353

SNC-Lavalin

235 Lesmill Road
Toronto | Ontario | Canada | M2B 2V1

snclavalin.com

Appendix H

Aerial Photographs

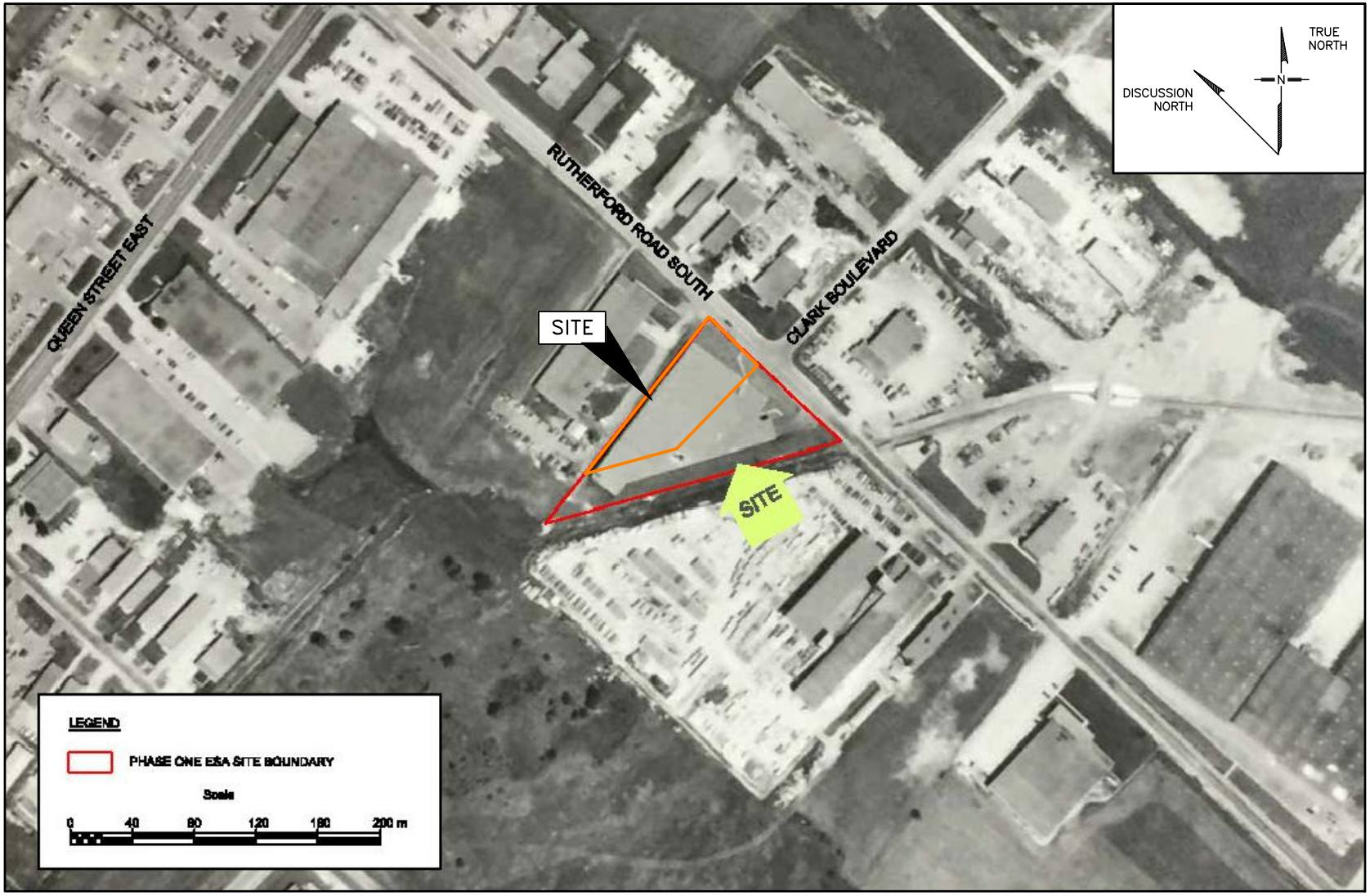
SOURCE(S):
1. G2S ENVIRONMENTAL CONSULTING, PHASE ONE ENVIRONMENTAL SITE ASSESSMENT, 1954 AERIAL PHOTOGRAPH, PROJECT No.G2S18210, DRAWING No.4, MARCH 26, 2018

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (1954)	
Project No: 671835	Filename: 003FH1_671835	Date: MARCH 2020	Dwg No: FIGURE H.1
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FH1_671835.dwg



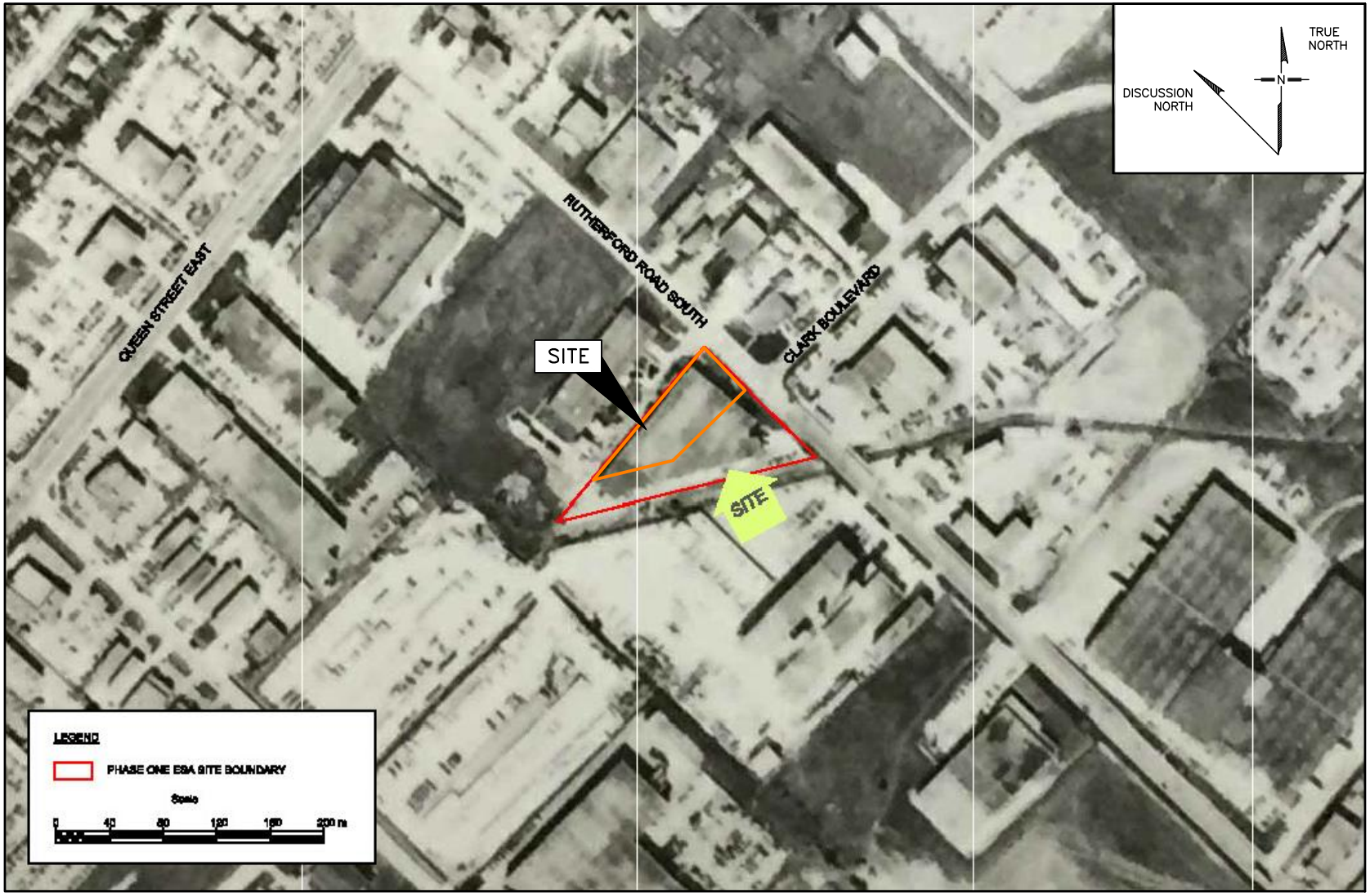
SOURCE(S):
1. G2S ENVIRONMENTAL CONSULTING, PHASE ONE ENVIRONMENTAL SITE ASSESSMENT, 1971 AERIAL PHOTOGRAPH, PROJECT No.G2S18210, DRAWING No.5, MARCH 26, 2018

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (1971)	
Project No: 671835	Filename: 003FH2_671835	Date: MARCH 2020	Dwg No: FIGURE H.2
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FH2_671835.dwg



SOURCE(S):
1. G2S ENVIRONMENTAL CONSULTING, PHASE ONE ENVIRONMENTAL SITE ASSESSMENT, 1982 AERIAL PHOTOGRAPH, PROJECT No.G2S18210, DRAWING No.6, MARCH 26, 2018

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (1982)	
Project No: 671835	Filename: 003FH3_671835	Date: MARCH 2020	Dwg No: FIGURE H.3
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

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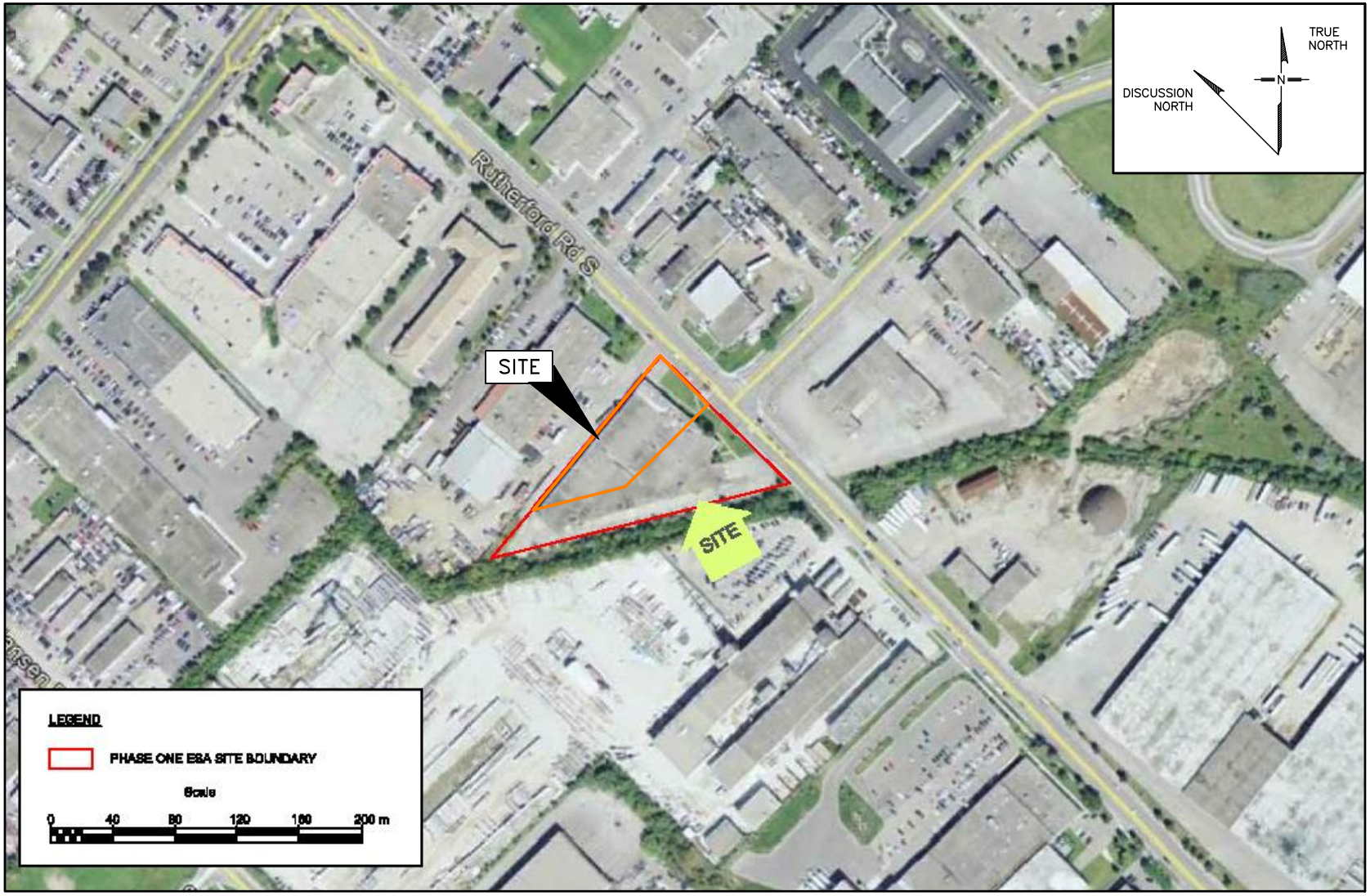


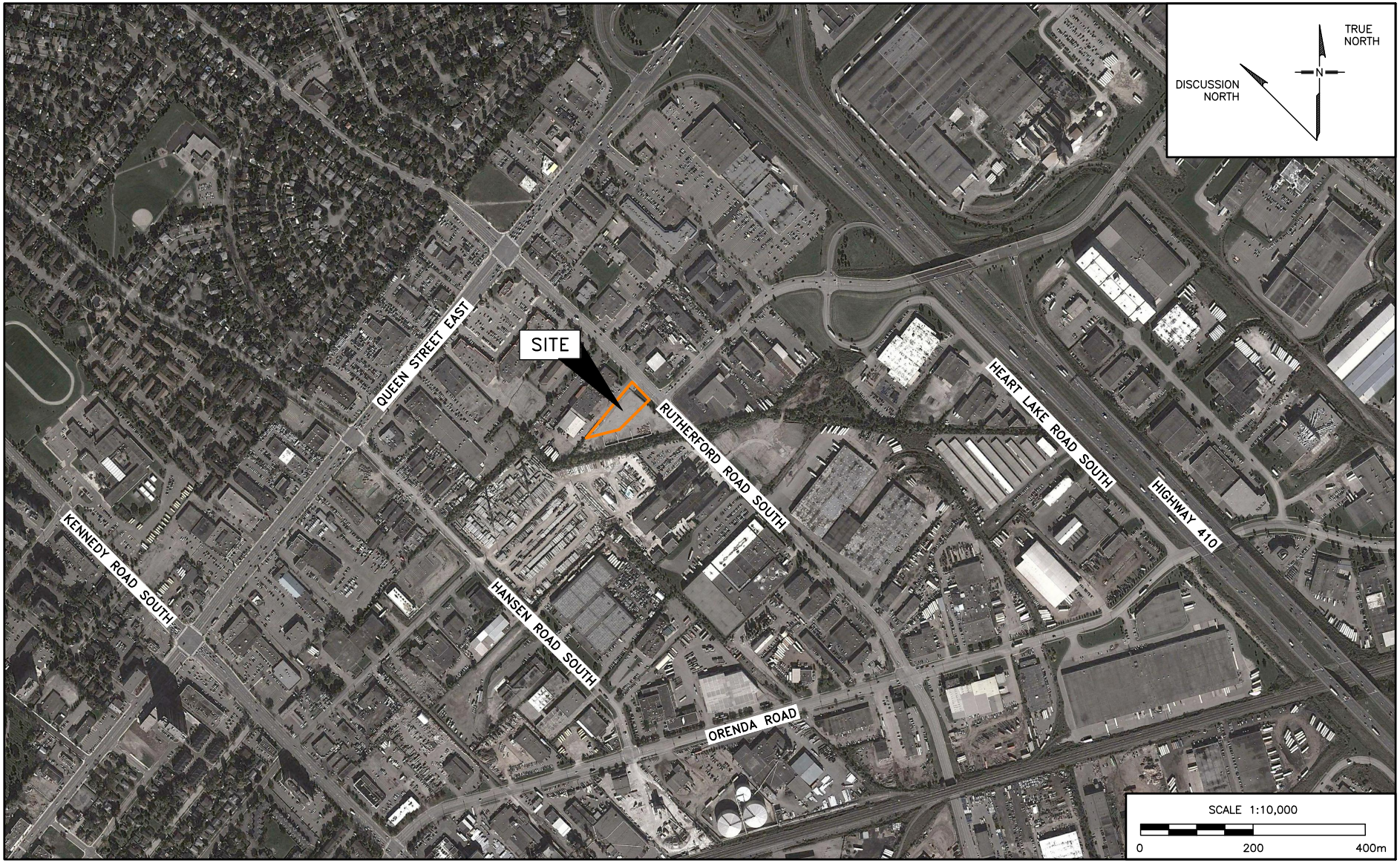
SOURCE(S):
1. G2S ENVIRONMENTAL CONSULTING, PHASE ONE ENVIRONMENTAL SITE ASSESSMENT, 2009 AERIAL PHOTOGRAPH, PROJECT No.G2S18210, DRAWING No.7, MARCH 26, 2018

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (2009)	
Project No: 671835	Filename: 003FH4_671835	Date: MARCH 2020	Dwg No: FIGURE H.4
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FH4_671835.dwg



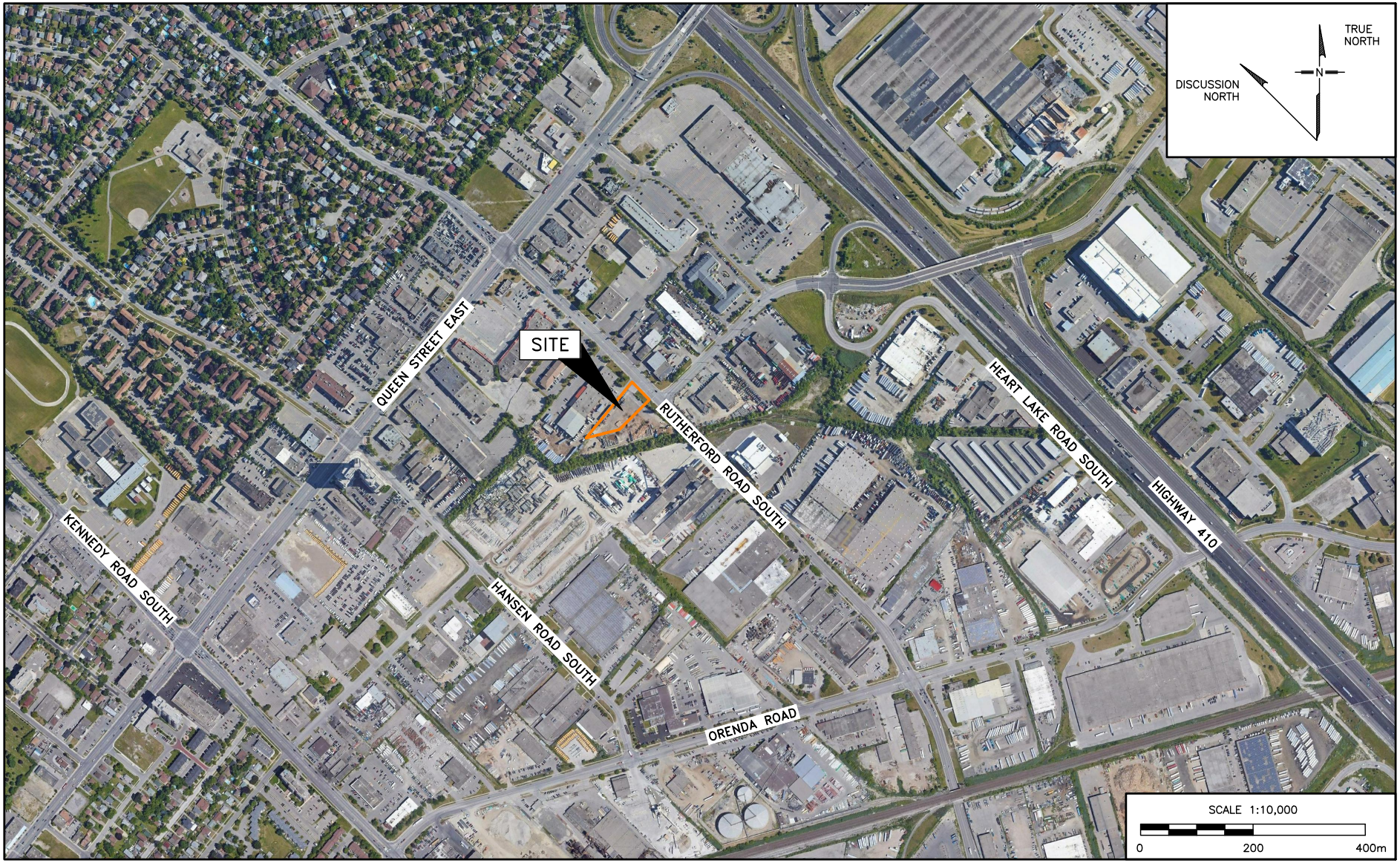
SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, OCTOBER 9, 2013

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (2013)	
Project No: 671835	Filename: 003FH5_671835	Date: MARCH 2020	Dwg No: FIGURE H.5
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FH5_671835.dwg



SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, JUNE 9, 2018

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: AERIAL PHOTOGRAPH (2018)	
Project No: 671835	Filename: 003FH6_671835	Date: MARCH 2020	Dwg No: FIGURE H.6
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FH6_671835.dwg

Appendix I

Topographic Map and Areas of Natural Significance

SOURCE(S):
1. TOPOGRAPHIC MAP, TOPORAMA, SHEET 030M12, MARCH 2020

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: TOPOGRAPHIC MAP	
Project No: 671835	Filename: 003FI1_671835	Date: MARCH 2020	Dwg No: FIGURE I.1
Drawn: AG	Verified: WW	Project Manager: AY	

PAGE FORMAT: 8.5x11

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\003 (Phase 1)\003FI1_671835.dwg

Appendix J

Interview Form

SNC-LAVALIN INC.
235 Lesmill Road
Toronto, Ontario
Canada M3B 2V1

Telephone: +1-416-635-5882

Phase I Interview Questionnaire

Date:	**April 30, 2020**
Site Location:	**25 Rutherford Road S. Brampton**
Place of interview:	
Method of interview:	
Name of the person being interviewed:	Edward Hunwicks
Reason why the person was identified as someone to interview:	Knowledgeable about the Site

A. SITE AND SURROUNDING	
1	How long has the Site been owned by the Owner?
	Unknown
2	What was the Site used for: current and historically
	For the past 6 years it was used as a holding area for wood chips and logs from the Forestry department
3	Was fill brought to the Site for grading/elevation purposes?
	Unknown
4	Is the Site currently municipal serviced?
	Unknown
5	Has the Site always been municipally serviced?
	Unknown

6	Are you aware of any septic bed located on the Site? a. If yes, does it have a holding tank **b.** If no, was there ever a holding tank and is it decommissioned now?
	Unknown
7	Are you aware if natural gas or hydro currently services the Site? Was the Site previously serviced with heating oil or coal?
	Unknown
8	Are you aware of any potable water well at the Site?
	Unknown
9	Are you aware of any above ground storage tanks and/or underground storage tank on the Site, or adjacent properties?
	Unknown
10	Other items were noted to be present on site during the inspection such as: - Gas cylinder tanks, - Steel and plastic drums (with liquid) - 2 empty plastic totes (no steel cages), and - Wood logs. Do you have knowledge of these items and content of the drums? Are you aware of any other waste drums or chemicals currently or previously been present at the Site?
	Only knowledge of wood logs and they have all been removed from this location

11	Are you aware of any spills or leaks (i.e., petroleum or otherwise) associated with historical operations, that occurred at the Site, or adjacent properties?
	Unknown
12	Based on your knowledge, can you provide some history of the site & surrounding neighbourhood (i.e. property uses and activities)?
	Unknown
13	Based on your knowledge, can you provide commentary as to when adjacent properties were developed?
	Unknown
14	In additional to the on-site environmental investigations completed on-site by G2S and Wood since 2018, are you aware of any other environmental reports associated with the Site?
	Unknown
B. ON-SITE BUILDING(S)	
15	Are you aware of any historical buildings on-site?
	Unknown

16	To your knowledge, are you aware of any current or previous asbestos containing materials, mould, lead or any other designated substance associated with the historical on-site building?
	Unknown
17	Are you aware of any abatement reports associated with the historical on-site building?
	Unknown
	Additional Comments:

Appendix K

Site Photographs

SITE PHOTOGRAPHS

Photograph 1: View of the Site from the front gate located in the northeast portion of the Site (looking west)

Photograph 2: Looking east towards Rutherford Road South from of the southeast portion of the Site.

SNC·LAVALIN

SITE PHOTOGRAPHS

Photograph 3: View of the Site from the southeast portion of the Site (looking north).

Photograph 4: View of the site from the area in vicinity of monitoring well MW102 (looking northeast)

SITE PHOTOGRAPHS

Photograph 5: Looking north towards monitoring well BH19-2. One steel and one plastic drums were observed.

Photograph 6: Two gas cylinder tanks were noted east of the shed (looking north)

SITE PHOTOGRAPHS

Photograph 7: Safety Data Sheet (SDS) label noted on one of the gas cylinder tanks.

Photograph 8: Empty plastic totes located adjacent north boundary of the Site.

SITE PHOTOGRAPHS

Photograph 9: View of the shed (looking north)

Photograph 10: Looking west from the shed. A wooden pallet and concrete ring were noted.

SITE PHOTOGRAPHS

Photograph 11: A pile of wood logs were noted in the northwest portion of the site.

Photograph 12: View of the pile of wood logs.

SITE PHOTOGRAPHS

Photograph 13: Looking east toward the Site from the adjacent west property (City's Property).

Photograph 14: Looking towards east at the adjacent south property (City's Property).

SITE PHOTOGRAPHS

Photograph 15: 19 Rutherford Road South (looking west)

Photograph 16: Looking east towards the southern portion of 32 Rutherford Road South located adjacent east of the Site.

SITE PHOTOGRAPHS

Photograph 17: Looking east towards the northern portion of 32 Rutherford Road South located adjacent east of the Site.

Photograph 18: Looking east towards 28 Rutherford Road South located adjacent east of the Site.

SITE PHOTOGRAPHS

Photograph 19: Looking east towards 26 Rutherford Road South located adjacent east of the Site.

SNC·LAVALIN

235 Lesmill Rd.
Toronto, Ontario, Canada M3B 2V1
416-635-5882
www.snclavalin.com

Phase Two Environmental Site Assessment

25 Rutherford Road South, Brampton, ON
City of Brampton

16 August 2021
671835

Executive Summary

The Environment & Geoscience business division of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase Two Environmental Site Assessment (ESA) on portion of the property located at 25 Rutherford Road South in Brampton, Ontario that has been proposed for redevelopment. The City owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which is triangular in shape (approximately 0.95 hectares [ha] in size; identified as the "City's Property"). The northeast portion of the City's Property, trapezoid in shape (approximately 0.4 ha in size) and herein, is referred to as the "Phase Two Property" or the "Site". The Phase Two Property is the portion subject to redevelopment. A Site location Plan showing the City's Property and the Phase Two Property is provided a Figure 1.

This Phase Two ESA was completed in support of filing a record of Site condition (RSC) for institutional land use. Field work activities were completed between March and June 2020. The Phase Two ESA was conducted based on Ontario Regulation (O.Reg.) 153/04, as amended (MOE, 2011). The Phase Two ESA work program was based on areas of potential environmental concern (APEC) and the Phase One conceptual site model (CSM) developed in the Phase One ESA completed in November 2019 (SNC Lavalin, 2019). Phase Two ESA work was conducted in March 2020 and a supplemental investigation to the Phase Two ESA, was completed in June 2020. There were no new APECs or contaminants identified. Consequently, the Phase Two ESA completed between March and June 2020 is considered to have adequately investigated the APECs.

Background

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl). The nearest surface water body is an unnamed tributary of Spring Creek located approximately 35 m south of the site, and eventually discharging to Lake Ontario.

The Site is currently vacant and consists of a paved area in the northeast portion of the Site with a gate to access the Site from Rutherford Road. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. An inactive wooden guard shed with no door, is located in the central portion of the Site adjacent to the north boundary of the Site. The general historical layout of the Site is provided in Figure 2.

The City is planning to develop the Site as a Fire Hall, and as per the City's planning and development requirements, such development will constitute a change of the land use from its current classification of industrial/commercial/community Property use to more sensitive use (i.e. Residential/Parkland/ Institutional Property use along with a filing of a Record of Site Condition (RSC) as per Ontario Regulation (O. Reg.) 153/04 as amended.

First developed use of the Phase Two Property was between 1954 and 1963. A number of environmental investigations were completed at the Site since 2018. Based on information obtained from aerial photographs and interviews, the Site has been used for industrial use. The City's Property had been previously occupied by a building with various business tenants including cardboard container and mattresses manufacturers, autobody and glass replacement shops, bulk storage of paints and other commercial businesses and offices. Following the demolishing of the building circa 2009, the City used

the property as a storage yard for mulch and raw lumber. A Site plan showing the locations of historical boreholes and monitoring wells is provided in Figure 3.

Current surrounding land use in the immediate vicinity of the Site is industrial/commercial and vacant land. The property at 19 Rutherford Road South located immediately north of the Site has been under industrial use since the late 1960s and currently occupied by Super-Fast Trucklines, NAPA Auto Parts and Signage & Lighting Systems and a community training centre. Vacant land including the remainder of the City's Property having the same municipal address with an unnamed creek beyond (25 Rutherford Road South), is located south and west of the Site. The property at 32 Rutherford Road South is located east of the site and is listed as a industrial/commercial property since 1981 and is currently an auto repair centre occupied by Rush Lube & Truck Wash, 1 Stop Auto Repair Centre and Auto Crew Sales.

Soil and Groundwater Investigation

Four (4) boreholes (BH-306B, BH-307, BH-309B and BH-312) were drilled at the Site by Landshark Drilling (Landshark) of Brantford, Ontario between March 5 and 12, 2020 under SNC-Lavalin supervision. The boreholes were advanced to depths ranging from 2.9 to 9.3 m bgs.

Based on soil sampling results, supplemental investigations were conducted as part of a Supplemental Phase II ESA investigation to further delineate COCs. Fifteen (15) boreholes (BH-501 to BH-515) were drilled at the Site by Landshark Drilling (Landshark) of Brantford, Ontario on June 30, 2020 under SNC-Lavalin supervision. The boreholes were advanced to depths ranging from 2.1 to 2.7m bgs.

Two boreholes (BH-307 and BH-312) were instrumented as ground water monitoring wells (MW-307 and MW-312). Monitoring well locations are shown in Figure 6. The figure also includes additional monitoring wells (MW101, MW102, MW103 and MW19-2) that pre-dated the current Phase Two ESA and were retained for on-going ground water monitoring and sampling.

Ground water sampling was completed between March 20 and 21, 2020 at the two (2) newly-installed monitoring wells (BH-307 and BH-312) and three (3) existing monitoring wells (MW101, MW103 and MW19-2) that pre-dated the current Phase Two ESA and were retained for on-going ground water monitoring and sampling.

Applicable Site Condition Standards

The Phase Two ESA was completed in support of filing an RSC. Investigative field work activities were completed between March and June 2020. The Phase Two ESA was conducted in accordance with O. Reg. 153/04 and the applicable site condition standards were as follows:

MECP Table 3 full depth generic site condition standards (MECP Table 3 SCSs) for residential/parkland/institutional property use in medium and fine textured soils in a non-potable groundwater condition, were selected for comparison with measured soil and groundwater concentrations (MOE, 2011). Concurrences from the City and the Regional municipality of Peel (Region) have been obtained to use the selected non-potable MECP Table 3 SCSs (responses from the City and the Region dated May 5, 2020 and April 2020, respectively).

Groundwater Monitoring and Sampling Results

Ground water monitoring results are provided in Table 1. Well locations and ground water elevations are shown on Figure 7. The depth to water in the shallow monitoring wells ranged from approximately 1.36 m (BH19-2) to 2.79 m bgs (MW 312) bgs on March 20, 2020. Corresponding water elevations in the

monitoring wells ranged from 213.86 (MW-103) to 214.55 m amsl (BH19-2) on March 20, 2020. The ground water flow direction was interpreted and depicted on Figure 7. Based on these data, the highest ground water elevation at the site appears to be centred around monitoring well BH19-2 located in the north central portion of the Site. The inferred shallow ground water flow is interpreted to be towards the southeast and southwest from the north central portion of the Site.

Contaminants Exceeding Applicable Standards in Soil

Areas where contaminants are present above the MECP Table 3 SCSs in soil prior to remediation are shown in Figures 8, 9 and 10. Locations of cross sections for analysis purposes is shown in Figure 6. Cross sectional figures showing contaminant distribution at the property prior to remediation is shown in Figure 11, 12 and 13.

pH in Soil

Lateral Limits (Figure 8): Based on measured concentrations in soil samples, pH was outside the MECP SCS range of 5 to 9 in surface soils considered to be within the majority of the site, with the exception of the east and west property limits. The pH exceedances are generally present near the areas of previous storage of mulch on the Site.

Vertical Limits (Figure 11): The area of soil with pH values that exceeded the criteria for application of the generic SCS was identified from 0.0 to 1.4 m bgs. The pH exceedances were generally present near ground surface, which is considered to be the result of storage of mulch on the Site.

Metals in Soil

Lateral Limits (Figure 9 and 10): The area of metals contamination is shown on Figure 9 and on cross section in Figure 11. Arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, nickel, thallium, vanadium and zinc exceeded the selected standards in an isolated area in the south portion of the Site. Metals contamination in surface soil are considered likely to be the result of previous activities at the Site, but based on available information, could not be associated with a specific activity.

Vertical Limits (Figure 12 and 13): The area of soil with metals concentrations that exceeded the MECP Table 3 SCSs was identified from 0.0 to 1.2 m bgs. The metals contamination is located within this depth of the overburden.

Inorganics in Soil

The concentration of electrical conductivity (EC) in soil exceeded the MECP Table 3 SCS in the sample collected from TP19-8 at a depth of 0.0 to 0.7 m bgs with a concentration of 840 µS/cm, compared to the standard of 700 µS/cm. The source of the elevated EC is considered a result of historical application of road salt (e.g. application of salt to upgradient roadways, walkways and/or parking lots), since the presence of soluble salt increases EC concentration. The depth of the exceedance is at the surface, and the sample location is located south of the adjacent property parking lot and north of the previous historical building. The location of the exceedance are suggestive of impacts related to the application of road salt. As per Section 49.1 (1) of O. Reg. 153/04 exceedances of EC in soil are not considered to be exceedances of the SCS for purposes of filing an RSC as it is related to the application of a substance to a surface for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Consequently, EC is not a COC for the Site.

Contaminants Exceeding Applicable Standards in Ground Water

Results of ground water sampling did not identify exceedances of any COCPs. Analytical results showed LNAPL was not identified to be present at the site or within the aquifer. Delineation was achieved within

the single identified aquifer and it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

Inorganics in Ground Water
The concentration of chloride exceeded the MECP Table 3 SCSs in the ground water sample collected from monitoring well MW101 in March 2020, with a concentration of 2,900 mg/L, compared to the standard of 2,300 mg/L. Based on analysed ground water samples collected from the remaining monitoring wells at the Site, the next highest concentration of chloride (588 mg/L) was from the other monitoring well (BH19-2) closest to the adjacent property to the North which consists of a parking lot extending across the north property line of the site. Lower concentrations of chloride and sodium were identified in the analysed samples from the other shallow monitoring wells. The trends for sodium and chloride concentrations in ground water samples collected from monitoring wells at the Site are suggestive of impacts related to the application of road salt. The source of the elevated chloride is considered to be located off-site upgradient of the Site (e.g. application of salt to upgradient roadways, sidewalks and/or parking lots). As there are no other potential sources of chloride impact identified at or near the Site, per Section 49.1 (1) of O. Reg. 153/04 exceedances of chloride in ground water are not considered to be exceedances of the SCS for purposes of filing an RSC as it is related to the application of a substance to a surface for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Consequently, chloride is not a COC for the Site.

Other Parameters
The concentration of cyanide exceeded the MECP Table 3 SCSs in the ground water sample collected from monitoring well MW19-2 in September 2019, with a concentration of 2 mg/L, compared to the standard of 0.066 mg/L. Two subsequent ground water samples were collected from this well on March 20, 2020 and July 22, 2021. The concentration of cyanide was below the laboratory detection limit (<0.002 mg/L) and below the selected MECP Table 3 SCS for the two subsequent samples collected from monitoring well MW19-2, in March 2020 and July 2021. This cyanide impact was not identified in soil or ground water on the Site or the adjacent City property. This appeared to be an anomaly and was not further investigated.

Remedial Excavation

A remedial excavation was completed based on the findings of the Phase II ESA. Four (4) areas of remedial excavation (EX-1, EX-2, EX-3 and EX-4) were completed by Rafat General Contracting Inc. of Bolton, Ontario between October 14 and December 15, 2020. The excavation was proposed to remediate shallow soil impacts (pH) and deep impacts (select metals).

The remedial excavation work (EX-1, EX-2, EX-3 and EX-4) was carried out using a Caterpillar 350 L excavator. The excavations comprised a total area of approximately 2,068 m^2 and a total of approximately 5,161 tonnes of soil was sent for offsite disposal. Any soil samples with pH values identified outside of the pH ranges or metals concentrations that exceeded the SCS, from previous or future investigations, were removed by a subsequent remediation program. The remedial excavation is further discussed in Appendix C. Thus, the Site should not be considered potentially sensitive, and no metals contamination remains on Site.

SNC·LAVALIN

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1 Introduction

The Environment & Geoscience business division of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase II Environmental Site Assessment (ESA) on the proposed development portion of the property located at 25 Rutherford Road South in Brampton, Ontario. It is understood that the City already owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which includes the property triangular in shape (approximately 0.95 hectares [ha] in size; identified as the "City's Property"). The northeast portion of the City's Property, trapezoid in shape (approximately 0.4 ha in size), is to be developed as a Fire Hall and herein, is referred to as the "Phase Two Property" or the "Site".

The Phase Two ESA was completed in support of filing a record of site condition (RSC) for institutional land use. Field work activities were completed between March and June 2020. The Phase Two ESA was conducted based on Ontario Regulation (O. Reg.) 153/04 (MOE, 2011).

1.1 Site Description

The Phase Two Property is located on the west side of Rutherford Road South, approximately 300 m south of the intersection with Queen Street East in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 0.4 ha (1.0 acre) in size. The City already owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which includes the property triangle in shape (approximately 0.95 ha in size; identified as the "City's Property"). The north portion of the City's Property, the Site, is to be developed as a Fire Hall.

The general historical site layout of the Phase Two Property is provided in Figure 2. The Site is currently vacant and consists of a paved area in the northeast portion of the Site with a gate to access the Site from Rutherford Road. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. A wooden shed with shingles is located in the central portion adjacent to the north boundary of the Site.

First developed use of the Phase Two Property was between 1954 and 1963. A number of environmental investigations were completed at the Site since 2018. Based on information obtained from aerial photographs and interviews, the land-use on-Site has been used for industrial use. The City's Property had been previously occupied by a building with various business tenants including cardboard container and mattresses manufacturers, autobody and glass replacement shops, bulk storage of paints and other commercial businesses and offices. Following the demolishing of the building circa 2009, the City used the property as a storage yard for mulch and raw lumber. The north portion of the City's Property, the Site, is to be developed as a Fire Hall.

Current surrounding land use in the immediate vicinity of the Site is commercial/industrial and vacant land. The property at 19 Rutherford Road South located immediately north of the Site has been under commercial use since the late 1960s and is currently an auto parts retail store. Vacant land including the remainder of the City's Property having the same municipal address with an unnamed creek beyond (25 Rutherford Road South), is located south and west of the Site. The property at 32 Rutherford Road South is located east of the site and is listed as a commercial/industrial property since 1981 and is currently an auto repair centre.

The Site and surrounding properties are supplied with potable water by a municipal drinking water system. No issues of significant environmental concern were identified with regards to the surrounding properties within 300 m of the Phase Two Property.

1.2 Property Ownership

Site Owner	City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2
Person Requesting Phase Two ESA	Ms. Reshma Fazlullah Project Coordinator Building Design and Construction City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2 Telephone: 416-845-4237

1.3 Current and Proposed Future Uses

The property is currently vacant. The proposed future development at the property may include institutional property use including a Fire Hall.

1.4 Applicable Site Condition Standard

Site condition standards (SCS) for use at this Site were selected from the Ontario Ministry of the Environment, Conservation and Parks (MECP) Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act using the approach described by O. Reg. 153/04, as amended. The following Site-specific information was used to select the standards for the Site:

- The Site is not considered an environmentally sensitive area as defined by Section 41 of O. Reg. 153/04 since:
  - The Site is not, does not include, is not adjacent to and is not part of an area of natural significance, nor does it include land that is within 30 m of an area of natural significance;
  - The pH of surface soil is generally within the 5 to 9 range, with the exception of soil samples collected in previous investigations at the surface to 1.4 m bgs with pH values up to 11.7. The pH values of all subsurface soil samples analysed during previous investigations were within the 5 to 11 range.
    - Any soil samples with pH values identified outside of the pH ranges from previous or future investigations were removed by a subsequent remediation program, details of the remediation program are provided in Appendix C. Thus, the Site should not be considered potentially sensitive.
  - The Site is not a shallow soil property as there is more than 2 m of soil on the Site property;
- The Site does not include or is adjacent to a water body or includes land that is within 30 m of a water body. The nearest surface water body is an unnamed tributary of the Spring Creek located approximately 35 m south of the Site.
- The Site and all other properties located, in whole or in part, within 250 m of the boundaries of the Site are supplied by a municipal drinking water system as defined in the Safe Drinking Water Act,

2002. Municipal drinking water within 250 m radius is supplied by the Regional of Peel sourced from Lake Ontario.

- Grain size analysis completed at the Site in previous investigations and the current program (Appendix I) indicated that soil at the Site is considered to be medium and fine textured as defined by O. Reg. 153/04.
- During the current Phase II ESA investigation, the depth to groundwater at the Site generally ranged from approximately 1.36 m to 2.26 m bgs during the investigation period.
- The future use of the site is a fire hall and is considered as residential or institutional property use.

Based upon the information above, Table 3 full depth generic site condition standards (Table 3 SCSs) for residential/parkland/institutional property use in medium and fine textured soils, were selected for comparison with measured soil and groundwater concentrations (MOE, 2011).

2 Background Information

2.1 Physical Setting

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl).

The nearest surface water body is the unnamed tributary of the Spring Creek located approximately 35 m south of the site, and eventually discharging to Lake Ontario. The Site is primarily flat with a gentle downward slope to the south, surface runoff from the Site is directed towards the tributary to the south and southwest of the Site.

There are no areas of natural significance located within 300 m of the Site (SNC-Lavalin, 2021).

2.2 Past Investigations

A Phase One ESA and a Phase Two ESA documenting environmental investigations were completed at the City's Property in 2018 (G2S, 2018 a and b). A Supplemental Phase Two ESA investigation was also completed at the City's Property in 2019 (Wood, 2019). The findings from these reports are summarized below. A site plan showing the locations of historical boreholes and monitoring wells is provided in Figure 3.

Phase I ESA (G2S, 2018a)

- The City's Property (25 Rutherford Road South) was developed as a storage yard and used by the City of Brampton during the time of the investigation. No permanent buildings were located on the City's Property, including the Phase Two Property, and with the following identified:
  - The lot was developed with paved areas along the east property boundary and the remainder of the property was covered by dirt or gravel.
  - Three concrete storage areas, containing raw lumber and mulch, were located in the centre of the property.
  - A guardhouse was located along the central north property boundary.
  - Skids of bricks were located in the northeast portion of the property.
  - A maintenance hut was located on the northwest corner of City's Property (i.e. adjacent west of the Site), containing 3 jerry cans.

- Sea can containers for storage were located on the northwest and southeast corners of the City's Property (i.e. adjacent west and adjacent east of the Site).

- APEC potentially affecting soil and groundwater on the property include:
  - Historical industrial use of the property by Kirk Containers Ltd. for carboard manufacturing in 1971, and Kustom Airworks for use and bulk storage of paints in 2006 (on-site; entire property)
  - Historical industrial use of the north adjacent property (19 Rutherford Road South) by Canada Ferro Co Ltd. for automobile parts manufacturing from 1967 to 1981, and for sign manufacturing by Signage and Lighting Systems Inc. from 2006 to 2008 (Northern Portion of the property)
- It was recommended that further investigations be completed to investigate potential environmental impacts in soil and groundwater from the identified APECs.

Phase II ESA (G2S, 2018b)

- A total of twelve boreholes (BH101 to BH107 and BH201 to BH205) were advanced on the City's Property with five of these boreholes (BH101 to BH105) installed as groundwater monitoring wells (MW101 to MW105). Six of these boreholes and monitoring wells (BH101/MW101, BH102/MW102, BH103/MW103, BH106, BH202 and BH203) were advanced to depths between 2.10 and 5.92 m bgs on the Phase Two Property. These borehole and monitoring well locations are shown in Figure 3.
- Stratigraphy was noted in the boreholes located on the Phase Two Property consists of fill material to a depth of approximately 1.2 m underlain by clayey silt to depths ranging between 2.4 and 3.6 m bgs underlain by bedrock to the maximum depth of investigation of 5.9 m bgs. Grain size analysis from the native material indicated predominant soil type was medium-fine textured.
- The depth to water noted in the monitoring wells located on the Phase Two Property (MW101, MW102 and MW103) were between 2.22 m and 4.55 m bgs.
- Concentrations of metals in the soil sample collected from BH102 at a depth of 0.0 and 1.2 m bgs exceeded the MECP Table 9 Site Condition Standards (SCS) for All Types of Property Use within 30 m of a Water Body, in Non-potable Groundwater Conditions.
- Concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbons fractions F1 to F4 (PHCs F1 to F4), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) in the remaining analysed soil samples were below the MECP Table 9 SCS.
- Concentrations of BTEX, PHCs F1 to F4, VOCs, metals, and PAHs in analysed groundwater samples met the MECP Table 9 SCS.
- It was concluded that results of the investigation did not meet MECP Table 9 SCS and a remediation or risk assessment would be required to address the metal soil impacts in order to file for a Record of Site Condition (RSC).

Supplemental Phase II ESA (Wood, 2019)

- Three (3) boreholes (BH19-1 to BH19-3) were advanced on the City's Property and all of which were instrumented as groundwater monitoring wells. In addition, eight test pits (TP19-1 to TP19-8) were excavated on the City's Property. One monitoring well (BH19-2) and three test pits (TP19-2, TP19-4 and TP19-8) were located on the Phase Two Property. Borehole, monitoring well and test pit locations are shown in Figure 3.
- Soil and groundwater results from boreholes, test pits, and monitoring wells within 30 m of the creek located adjacent south of the property was compared to the MECP Tables 8 and 9 SCS for Use within 30 m of a Water Body in a Potable Groundwater Condition, Residential/Parkland/Institutional/ Industrial/Commercial/Community property use.
- Soil and groundwater results boreholes, test pits, and monitoring wells beyond 30 m of the creek located adjacent south of the property was compared to the MECP Table 3 SCS, non-potable groundwater condition, Residential/Parkland/Institutional property use, medium to fine textured soils.

- Stratigraphy from observations in borehole BH19-2 on the Phase Two Property was noted to be sand and silt fill material to a depth of approximately 0.6 m bgs underlain by sand and gravel fill to a depth of approximately 1.4 m bgs, underlain by sandy silt to 2.2 m bgs underlain by sand and gravel to the maximum depth of investigation of 4.4 m bgs. A grain size sample collected from test pit TP19-2 at a depth of 0.3 to 0.7 m bgs was noted to be coarse textured, however, grain size analysis from the native material across the City's Property indicated predominant soil type is medium-fine textured.
- Based on results from September 15, 2019, shallow horizontal groundwater flow direction on the Phase Two Property was towards the south to southeast direction.
- Results of this investigation identified soil and groundwater impacts on the Phase Two Property:
  - Elevated EC values above Table 2 and 3 SCS identified in soil sample collected at a depth from surface to 0.7 m bgs in test pit TP19-8, located by the north property boundary.
  - Groundwater with sodium and chloride concentrations above the Table 2 and 3 SCS was identified in monitoring well MW101.
  - Groundwater with elevated antimony concentrations above the Table 2 SCS was identified at monitoring well BH19-2 located along the north property boundary.
- The pH of soil samples collected at the Site were generally within the range of 5 to 9 for surface soil samples (0 to 1.5 m bgs) and within the range of 5 to 11 for subsurface samples (>1.5 m bgs) with the exception of the sample collected at 0.1 to 0.7 m bgs from test pit TP19-2 (pH of value 10.8) and the sample collected at 0.7 m bgs from test pit TP19-8 (pH value of 11.7).
- The estimated amount of soil impacted with metals on the City's Property was estimated to approximately 300 m^3 (600 tonnes) with a portion of which is located on the Phase Two Property.

Results of historical investigations completed were reviewed in the Phase One ESA and used to help scope this Phase Two ESA. The current investigations were designed to collect updated information in areas of historical contamination.

3 Scope of the Investigation

3.1 Overview of Site Investigation

The objective of this work program was to conduct a Phase Two ESA in support of filing of an RSC by investigating potential impacts to soil and groundwater related to APEC and associated potential contaminants of concern (PCOC) identified during the completion of a Phase One ESA of the Site (SNC Lavalin, 2021).

To meet the objectives described above, SNC-Lavalin developed a work plan to implement the City's scope of work. The work plan was executed in conjunction with the geotechnical investigation and was approved by the City and included the following:

- Public and private utility locates to confirm the location of subsurface utilities;
- Borehole drilling, soil sampling and monitoring well installation;
- Elevation surveying of borehole and monitoring well locations;
- Groundwater monitoring and sampling;
- Laboratory analyses of samples collected;
- Disposal of investigation wastes; and,
- Reporting.

3.2 Media Investigated

3.2.1 Rationale for Media Sampled

The Phase One ESA identified eight (8) on- and off-site APECs, shown in Figures 4 and 5. Potentially affected media in each APEC were soil and ground water. No water bodies are present on Site, therefore neither surface water quality nor sediment were investigated.

3.2.2 Overview of Field Investigation

A review of historical soil and ground water data collected during previous investigations and results of the Phase One ESA were used to develop the objectives of this work program and initial sampling and analysis plan (SAP). The locations of boreholes, test pits and monitoring wells completed in the work program are shown on Figure 6. The figure also includes additional boreholes and test pits (BH19-2, TP19-2, TP19-4, TP19-8, BH/MW101, BH/MW102, BH/MW103) that pre-dated the current Phase Two ESA. The SAP, including the rationale for sample analysis in soil and ground water, is presented in Appendix A.

3.2.2.1 Soil

- Advancing four (4) boreholes to approximate depths ranging from 2.9 to 9.3 m bgs;
- Advancing six (6) boreholes to approximate depths ranging from 9.1 to 9.3 m bgs, as part of the geotechnical investigation;
- Advancing fifteen (15) shallow boreholes to approximate depths from 2.1 m to 2.7 m bgs;
- Collecting soil samples from the walls and floors of three (3) excavation areas;
- Soil samples were collected at various depths of potential concern and submitted for laboratory analysis of metals and inorganics [including pH] or pH only; and,
- Soil waste classification sample analysis results were provided through previous investigations completed by Wood in 2019, provided in Appendix G.

3.2.2.2 Ground Water

The ground water investigation conducted by SNC-Lavalin included the following activities:

- Instrumenting two (2) boreholes as one (1) monitoring well and one (1) deeper monitoring well, with 3.0 m screens;
- Well development of newly installed wells;
- Monitoring headspace vapour readings, measuring water levels and presence or absence of light non-aqueous phase liquids (LNAPL) of two (2) newly installed wells and three (3) existing wells;
- Collection of ground water samples from two (2) newly installed monitoring wells and three (3) existing monitoring wells for laboratory analyses of one (1) or more of benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), PHC F1 to F4, VOCs, PAHs and metals and inorganics.

3.3 Phase One Conceptual Site Model

APECs for the Site identified in the Phase One ESA that are due to both on-Site and off-Site current and historical potential contaminating activities (PCAs) and areas of interest (AOI). AOI are activities or observations of conditions that may have the potential to adversely affect soil and ground water conditions at the Site, but do not meet the MECP definition of a PCA. The PCAs determined during the Phase One ESA are depicted in Figure 4. The APECs derived from PCAs and AOIs, are summarized in the table below is in accordance with O. Reg. 153/04. A Figure of the APEC locations is provided in Figure 5 and a summary of APECs is provided in the table below. Associated PCOCs are also included in the table.

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
1	General Site area	PCA Item 10 - Commercial Autobody Shops	On-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Soil and Ground water
2	General Site area	PCA Item 30 - Importation of Fill Material of Unknown Quality		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
3	General Site area	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
4	General Site area	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	
5	General Site area	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
6	General Site area	PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
7	Southwestern and southern area of Site	PCA Item 10 - Commercial Autobody Shops	Off-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
		PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
8	North boundary of Site	PCA Item 19 - Electronic and Computer Equipment Manufacturing		Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	
		PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	

Area of Potential Environmental Concern [1]	Location of Area of Potential Environmental Concern on Phase One Property	Potential Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item NA - Documented spill of diesel to a catch basin		BTEX, PHC F1-F4, PAHs	

Notes:

[1] - Areas of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,
(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.
[2] - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area
[3] - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups:

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

In general, the investigation was conducted in accordance with the sampling and analysis plan (SAP) provided to the City and is included below. Supplemental investigation was required from the results of the initial soil sampling from the Phase II ESA.

Borehole Drilling and Monitoring Well Installation

25 Rutherford Rd South, Brampton, ON		
Four (4) boreholes, two (2) complete with monitoring wells, one to be installed within the shallow aquifer, and one installed deeper to a depth of 8 m bgs to investigate deeper water table conditions. Three (3) additional wells from previous investigations shall also be sampled during the investigation.	Soil - Seven (7) - Metals and Inorganics - One (1) - Grain Size Analysis	Water - Four (4) – Metals and Inorganics - Four (4) - BTEX & PHC F1-F4 - Three (3) - PAH
Seven (7) boreholes, drilled as part of the geotechnical investigation, were submitted for pH analysis at various depths, ranging from ground surface to 3.6 m bgs, to obtain further understand of pH impacts on site.	- Twelve (12) - pH	none
Fifteen (15) shallow boreholes were advanced to a maximum depth of 2.7 m bgs, as part of a supplemental investigation to further delineate pH impacts on-Site.	- Forty-six (46) - pH	none

Deviations from the SAP are as follows:

- Soil samples collected from the Phase II ESA showed pH values above the Table 5 MECP SCS range, thus, samples placed on hold from the geotechnical investigation were submitted after the recommended holding time, to obtain a further understanding of pH impacts on Site.

3.4 Impediments

No impediments were encountered during the investigation.

4 Investigation Method

4.1 General

A Site-specific health and safety program was implemented by SNC-Lavalin throughout the work program.

The Phase Two ESA program was completed by SNC-Lavalin field staff using field and laboratory analysis protocols based on O. Reg. 153/04, “Guide for Completing Phase Two Environmental Site Assessment Under O. Reg. 153/04” (MOE, 2011), preferred operating procedures (POPs) described in the SNC-Lavalin Field Work Guidance Manual (SNC-Lavalin, 2019) and a quality assurance/quality control (QA/QC) program described herein.

A site-specific health and safety program was implemented during all work at the Site in compliance with regulatory requirements, as well as SNC-Lavalin programs and policies.

Prior to conducting intrusive work, public utilities in the planned work area were identified/cleared by various public utility companies. Premier Locates of Newmarket, Ontario, a private utility locating company, was retained by Landshark Drilling (Landshark) of Brantford, Ontario, a drilling company with private utility locating services, to mark and clear all private utilities and to confirm the locations of public utilities

Drilling locations were finalized based on the location of infrastructure and utilities.

4.2 Drilling and Excavating

4.2.1 Drilling

Four (4) boreholes (BH-306B, BH-307, BH-309B and BH-312) were drilled at the Site by Landshark Drilling (Landshark) of Brantford, Ontario between March 5 and 12, 2020 under SNC-Lavalin supervision. Boreholes were advanced using a track mounted B57 equipped with 100 mm outside diameter (O.D.) solid stem augers and split spoon samplers. The boreholes were advanced to depths ranging from 2.9 to 9.3 m bgs. Split spoon samplers were cleaned with soap and water between successive samples.

To further investigate pH impacts, additional soil samples from geotechnical boreholes advanced as part of the geotechnical drilling program completed concurrently with this work program, including eight (8) boreholes (BH-301, BH-304, BH-305, BH-306, BH-311, BH-312 BH-313 and BH-317) between March 3 and 13, 2020 under supervision of SNC-Lavalin geotechnical group. The boreholes were advanced to depths ranging from 9.1 to 9.3 m bgs. Soil samples from these seven (7) boreholes were not analysed within the holding time. The potential variability in analytical results due to extended hold time is not considered likely to have a significant effect on the analytical results. These results were used as general guidance to estimate remedial excavation areas, however, they are not included in the CSM, in accordance with O. Reg. 153/04.Based on soil sampling results, Supplemental investigations were conducted as part of a Supplemental Phase II ESA investigation to further delineate COCs. Fifteen (15) boreholes (BH-501 to BH-515) were drilled at the Site by Landshark Drilling (Landshark) of Brantford, Ontario on June 30, 2020 under SNC-Lavalin supervision. Boreholes were advanced using a Geoprobe 7822 direct push drill rig, equipped with push tubes and disposable polyvinyl chloride (PVC) sampling liners. The boreholes were advanced to depths ranging from 2.1 to 2.7m bgs.

Borehole and monitoring well locations are provided in Figure 6. Borehole logs are provided in Appendix B. The figure also includes additional boreholes and testpits (BH19-2, TP19-2, TP19-4, TP19-8, BH/MW101, BH/MW102, BH/MW103) that pre-dated the current Phase Two ESA.

4.2.2 Excavating

A remedial excavation was completed based on the findings of the Phase II ESA. Four (4) areas of remedial excavation (EX-1, EX-2, EX-3 and EX-4) were completed by Rafat General Contracting Inc. of Bolton, Ontario between October 14 and December 15, 2020. The excavation was proposed to remediate shallow soil impacts (pH) and deep impacts (select metals).

The remedial excavation work (EX-1, EX-2, EX-3 and EX-4) was carried out using a Caterpillar 350 L excavator. The excavations comprised a total area of approximately 2,068 m^2 and a total of approximately 5,161 tonnes of soil was sent for offsite disposal. The remedial excavation is further discussed in Appendix C.

4.3 Soil: Sampling

Soil samples from the daylighted portion of the boreholes were collected every 0.6 m using a hand trowel with an extendable handle. In an effort to minimize cross-contamination, samples were not collected from the exposed face of the daylighted hole. Instead, samples were collected using the tool to 'scrape' away the outer layer and recover soil behind the daylighted face.

Soil samples from boreholes, BH-306B, BH-307, BH-309B, BH-312, BH-301, BH-304, BH-305, BH-306 BH-311, BH-313 and BH-317 were collected using 100 mm outside diameter (O.D.) solid stem augers and split spoon samplers.

Soil samples from boreholes BH-501 to BH-515 were advanced using a Geoprobe 7822 direct push drill rig, equipped with push tubes and disposable PVC sampling liners.

Recovered soil samples were divided into two (2) portions, the first for possible laboratory analysis and the second for field logging/screening. The portion retained for possible laboratory analysis was bottled in laboratory-supplied sampling containers as described in Section 4.12.1 and submitted for analysis. The second portion was placed in a sealable sample bag for field logging/screening. Details of field screening methodology are described in Section 5.5.

Borehole logs are provided in Appendix B.

4.4 Soil: Field Screening Measurements

Soil samples collected for field logging/screening were placed in re-sealable plastic bags and inspected and logged for soil type, moisture, colour, structure, texture and visual evidence of impact. When applicable, maximum headspace vapour readings in the sample bags were measured using a RKI Eagle II (RKI) organic vapour meter (OVM) operated in methane elimination mode and calibrated in the field to a known hexane standard.

The RKI was calibrated prior to use in the field to hexane standards (15% LEL and 1650 ppmv). Calibration was acceptable if readings were within 10% of the standard. If results were outside the calibration acceptance criteria of 10%, adjustments were made in the field until the instrument reading was within 10% of the standard value.

Potential worst-case sample selection for non-volatile parameters (e.g. metals and inorganics) was based on visual observation of the sample (e.g. staining), site geology/hydrogeology and knowledge of contaminant behaviour and potentially contaminated areas from past investigations.

4.5 Ground Water: Monitoring Well Installation

Two boreholes (BH-307 and BH-312) were instrumented as ground water monitoring wells (MW-307 and MW-312) by Landshark. Monitoring well locations are shown in Figure 6. The figure also includes additional monitoring wells (MW101, MW102, MW103 and MW19-2) that pre-dated the current Phase Two ESA and were retained for on-going ground water monitoring and sampling.

The two (2) monitoring wells (BH-307 and BH-312) were constructed using 5.1 cm diameter flush threaded PVC piping and installed with 3 m long screens. BH-307, was installed at a depth of 8.1 m bgs to represent deeper ground water conditions, and BH-312 was installed at a depth of 4.6 m bgs. Both wells were completed with solid risers with a height of 1.10 m above ground surface. A clean silica sand pack was placed around each screen and isolated with hydrated bentonite to slightly below grade. The

wells were completed with above grade protective steel casings set in concrete and capped with clean j-plugs.

To minimize the potential for cross-contamination during well installation, well supplies (including, screen, riser and dedicated LDPE tubing) were removed from protective packaging only immediately prior to use. Handling was done by workers wearing a new pair of disposable vinyl gloves per well and by avoiding contact with potentially contaminating materials. Monitoring well construction details are presented in the borehole logs (Appendix B).

As per O. Reg. 903, as amended, monitoring wells completed as part of this investigation were registered with MECP. A copy of the MECP Water Well Record for each well is provided in Appendix D (pending).

Following installation, newly installed monitoring wells MW-307 and MW-312 were developed on March 18, 2020 by purging approximately three (3) borehole volumes of water (calculated as the volume of standing water plus the volume of water in the sand pack surrounding the well screen). The ground water monitoring wells were equipped with dedicated low-density polyethylene (LDPE) tubing and inertial foot valves. The monitoring wells were developed by manually moving the inertial foot valve from the top of the screened area to the bottom to ensure development of the whole screen, occasionally agitating the bottom of the well to stir up and remove any sediment built up. To assess the progress of well development, pH, conductivity and temperature readings were measured using a Hanna Instruments HI 991300 meter (Hanna meter) or equivalent calibrated by Maxim Environmental and Safety Inc. or in the field by SNC-Lavalin personnel. Well development was considered to be complete when readings stabilized (within 10%) and the purge water was visually free from silt. Measurement of field parameters is discussed in more detail in Section 4.6.

The date of the well development, the time, the purged ground water volume and the field parameter measurements were recorded in the field log.

4.6 Ground Water: Field Measurement of Water Quality Parameters

To assess the effectiveness of well development and well purging activities, purged ground water was collected in a container and a Hanna meter was used to measure pH, conductivity and temperature.

To assess the effectiveness of monitoring well purging prior to sampling, pH, conductivity and temperature readings were measured in purged water using a Hanna meter or equivalent, calibrated by Maxim Environmental and Safety Inc. or in the field by SNC-Lavalin personnel. Readings were taken between well volumes purged. Purging was stopped, and ground water samples collected when readings stabilized (generally within 10%) and the water was visually free from silt, respectfully. This is to ensure standing water is removed from the well, and ground water that is representative of the aquifer is sampled.

4.7 Ground Water: Monitoring and Sampling

Prior to ground water sampling, headspace vapour readings in each monitoring well were measured upon removal of the well cap with an OVM operated in methane elimination mode. The OVM was calibrated in the field to hexane standards by SNC-Lavalin personnel as described in Section 4.4. Water levels in the monitoring wells were measured relative to the top of riser pipe using a Heron Instruments H.OIL Interface probe. Ground water monitoring was conducted after well development was completed, and after water levels had at least 24 hours to stabilize. Wells were also examined for the presence of non-aqueous phase liquid (NAPL) using the interface probe. Prior to use in each well, the interface probe was washed using Alconox® soap and rinsed with distilled water to minimize the potential for cross-contamination.

Ground water sampling was completed in accordance with the SAP presented in Appendix A. Deviations from the ground water sampling and analysis plan (if any) are described in Section 4.12.4.

Ground water sampling was completed at the two (2) newly-installed monitoring wells (BH-307 and BH-312) and three (3) existing monitoring wells (MW101, MW103 and MW19-2) on the Phase Two Property between March 20 and 21, 2020.

Monitoring and sampling locations are shown in Figure 7.

Handling for ground water sampling was done by workers wearing a new pair of disposable nitrile gloves per well and by avoiding contact with potentially contaminating materials. Ground water sampling was collected using dedicated LDPE tubing and an inertial foot valve installed in each well. Prior to sampling, the standing water in the well was calculated and, where possible, at least three well volumes were purged or when the well had gone dry and was allowed to recover prior to sampling. To assess the progress of well purging, water quality parameters were collected, as described in Section 4.6. Purged ground water generated during well sampling were placed/stored in 205 L plastic drums.

Samples for metals analysis were field filtered using dedicated inline 0.45 µm filters.

Collected ground water samples were submitted for laboratory analyses in accordance with the SAP.

Samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers as described in Section 4.12.1.

4.8 Sediment Sampling

No surface water bodies or sediment are present on the Site and as such, no sediment sampling was undertaken.

4.9 Analytical Testing

Laboratory analyses of soil, ground water and soil vapour samples were completed by AGAT Laboratories (AGAT Labs) of Mississauga, Ontario. AGAT is accredited by the Standards Council of Canada (SCC) and follow analytical protocols outlined in O. Reg. 153/04.

4.10 Residue Management Procedures

Waste materials generated during this Phase Two ESA included:

- Soil cuttings from drilling
- Purge water from ground water sampling
- Excess soil from remedial excavation

Soil auger cuttings generated during the drilling program were temporarily stored on-Site in 205 L metal drums and subsequently disposed off-site, arranged by Rafat General Contracting Inc, in accordance with O. Reg. 347 (as amended). Soil auger cuttings were disposed at the Trillium Recovery (2019) Ltd. facility in Toronto, Ontario.

Purged ground water generated during well development and sampling was placed in 205 L plastic drums, and temporarily stored on-site and subsequently disposed off-site, arranged by Rafat General

Contracting Inc. in accordance with O. Reg. 347 (as amended). Ground water was disposed at Lascape Transfer and Recovery facility in Toronto, ON.

Excess soil generated during the remedial excavation was loaded into triaxle trucks and sent for off-site disposal at the Trillium Recovery (2019) Ltd. facility in Toronto, Ontario in accordance with O. Reg. 347 (as amended).

4.11 Elevation Surveying

The ground surface elevations of nine (9) boreholes (BH-301, BH-304, BH-305, BH-306, BH-306B, BH-309B, BH-311, BH-313 and BH-317) and elevations of the top of riser pipe and ground surface at two (2) monitoring wells (MW-307 and MW-312) were surveyed by SNC-Lavalin personnel in summer of 2020. The survey was completed using a Trimble RX 5800 high precision unit, with elevations relative to geodetic datum above mean sea level (amsl).

The ground surface elevations of the fifteen (15) shallow boreholes (BH-501 to BH-515) from the supplemental investigation were surveyed by SNC-Lavalin personnel on July 9, 2020. The survey was completed using a Trimble RX 5800 high precision unit, with elevations relative to geodetic datum above mean sea level (amsl).

4.12 Quality Assurance and Quality Control Measures

A quality assurance/quality control (QA/QC) program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis. As part of the QA/QC program, sampling protocols included minimizing sample handling; submitting field QA/QC samples; using dedicated sampling equipment; using sample specific identification and labelling procedures; and using chain of custody records.

4.12.1 Sample Containers, Preservation, Labelling and Handling

Soil samples submitted for laboratory analysis were collected in the field following protocols designed to minimize potential for cross-contamination. A new pair of nitrile gloves were donned by SNC field staff between each soil and ground water sample location and when handling dedicated supplies.

Soil samples collected for metals and inorganics were collected directly in wide mouthed clear glass jars with Teflon lined lids. Soil samples for analysis were placed in coolers with ice and delivered directly to AGAT Labs by SNC-Lavalin personnel or shipped to ALS Laboratory by courier.

Ground water samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers.

Ground water samples for laboratory analysis of BTEX, PHC F1 and/or VOCs were collected (with zero headspace) directly in 40 mL clear glass vials equipped with Teflon lined septum caps and containing sodium bisulphate ($NaHSO_4$) preservative. Ground water samples for analysis of PHC F2 to F4 were collected in amber glass bottles containing NaHSO4 preservative. Ground water samples for analysis of PAHs were collected in amber glass bottles without preservative or analysed from the same sample glass bottle as the PHC F2 to F4 analysis. Ground water samples for analysis of dissolved metals were field filtered using dedicated 0.45 micron in line filters and collected in high density polyethylene (HDPE) plastic bottles containing nitric acid (HNO_3) preservative.

Soil samples were selected for laboratory analysis based on OVM readings, visual evidence of impact or based on the depth the sample was collected (e.g. for vertical delineation). Approximately two (2) soil samples were collected for each, respectfully. Soil samples selected for analysis were submitted to AGAT

Labs for analysis of metals and/or pH. One sample representative of soil encountered during the investigation was analysed for grain size.

A consistent approach to identifying samples was applied to ensure proper identification of each sample, validity of analytical results and continuity between multiple series of site investigations. The approach for soil sample labelling was to use a three (3) component sample name:

1. sample prefix (i.e. BH, EX);

2. location number (i.e. BH-301); and,

3. sequential sample number (i.e. BH-301-2).

For ground water sample labelling, a two (2) component sample number was used (i.e. MW-307). All water samples collected from the same location, over a period of time, typically have the same sample prefix and location number, the sampling date is used to differentiate between samples.

During the field work, a permanent waterproof marker was used to label the sample containers. A marker, which is free of toluene (i.e. Staedtler Lumocolor permanent marker) was used on the sample containers. Upon sample retrieval, samples for analysis were collected directly into laboratory containers (with or without preservatives depending on analytical suites) and placed into coolers with ice. The requested chemical analyses for the samples were documented in the chain of custody that was placed in the cooler. Prior to shipment, signed and dated custody seals were affixed to the coolers. The coolers were then delivered to the laboratory.

4.12.2 Sample Equipment Cleaning Procedure

The non-dedicated field soil sampling equipment (e.g. hand tools, split spoon) was brushed to remove loose soil and subsequently cleaned with detergent (Alconox®) and distilled water between sample collection to minimize the potential for cross-contamination between samples. Dedicated disposable nitrile gloves were worn during the handling of each sample.

Prior to use of non-dedicated field equipment for ground water monitoring and sampling, the interface probe was washed using detergent (Alconox) and rinsed with distilled water to minimize the potential for cross-contamination between each well.

4.12.3 Field and Laboratory QA/QC Samples

Field duplicate samples (where analysed) for soil are presented in Table 8. Field QA/QC samples for soil sampling included the following:

- One (1) field duplicate sample was submitted for every ten (10) soil samples submitted for laboratory analysis of metals and inorganics and/or pH, for a total of seven (7) field duplicates submitted for laboratory analysis of metals and inorganics and/or pH.

Field duplicate and trip blank samples (where analysed) for ground water are presented in Tables 6 and 7. Field QA/QC samples for ground water sampling included the following:

- One (1) field duplicate sample was submitted for a total of five (5) samples for laboratory analysis of metals and inorganics.
- One (1) field duplicate sample was submitted for a total of five (5) samples for laboratory analysis of BTEX and PHCs F1 to F4.
- One (1) field blank sample was submitted for laboratory analysis of BTEX and PHC F1 to F4.

- One (1) trip blank sample was submitted for laboratory analysis of BTEX and PHC F1.

4.12.4 Deviations from QA/QC Program

The QAQC program was generally completed in accordance with the SAP. However, to gain additional guidance on the extent of elevated pH values in soil, supplemental soil samples were submitted as part of the Phase II ESA, during the geotechnical investigations in March 2020. Soil samples from eight (8) boreholes, BH-301, BH-304, BH-305, BH-306, BH-311, BH-312, BH-313 and BH-317 were not analysed within the holding time. The potential variability in analytical results due to extended hold time is not considered likely to have a significant effect on the analytical results. These results were used as general guidance to estimate remedial excavation areas, however, they are not included in the CSM, in accordance with O. Reg. 153/04.

4.12.5 Data Review and Validation

Sampling data generated for this project was reviewed and verified by SNC-Lavalin personnel to ensure that data conforms to and satisfies project objectives. Data verification included ensuring that calibration of field instruments was satisfactory and field blank and field duplicates meet acceptable criteria. The data verification and reporting process for the laboratory data involved ensuring that the holding times, precision, accuracy, laboratory blanks, and detection limits are within acceptance criteria. If significant variances were identified, the final report was reviewed to determine if the overall project objectives are met and/or if additional investigations or corrective actions are required.

5 Review and Evaluation

5.1 Geology

Borehole logs are provided in Appendix B.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor. A shale-till complex was encountered during the current investigation in three (3) boreholes. Based on the Phase II investigations completed at the Site, average depth to the shale-till complex is approximately 6.0 m bgs. Based on MECP well records in the vicinity of the Site (Well ID #'s of nearby wells 7251165, 4900532 and 4901153), a shale material was encounter which identifies possible bedrock at an average depth 8.5 m bgs in the vicinity of the Site.

Overburden encountered during the current drilling program generally comprised of sand and silt fill material from ground surface to depths ranging from 0.0 to 2.3 m below ground surface (bgs). Underlain by silty clay to clayey silt to approximately 4.5 m bgs which is overlying a silt sand layer to depths ranging from approximately 6.1 m bgs to the end of borehole at 9.1 m bgs. In three (3) boreholes (BH-301, BH-305, BH-311) this native till is underlain by a shale-till complex to the end of each borehole to the maximum depth of investigation at approximately 9.3 m bgs.

Based on the encountered geology and the measured depth to ground water (see Section 6.2) only one aquifer was investigated, and an aquitard was not identified. Based on results of soil and ground water sampling (Sections 6.6 and 6.7), it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

Regional maps indicate the regional bedrock geology consists of the group of the Queenston Foundation, made of shale, limestone, dolostone and siltstone, as interpreted from Map 2544, Ontario Geologic Survey (OGS; OGS, 1991).

5.2 Ground Water: Elevations and Flow Direction

Ground water wells were used to determine ground water flow direction. These monitoring wells were intended to be screened to straddle the water table, however, shallower ground water conditions were encountered at the site and ground water levels were measured above the screen during ground water monitoring. Nevertheless, this is not expected to affect the interpretation of ground water flow direction. As only one aquifer was potentially affected by PCOCs, only one ground water contour pattern was determined.

Ground water monitoring was completed between March 20 and 21, 2020 at the two (2) newly-installed monitoring wells (BH-307 and BH-312) and three (3) existing monitoring wells (MW101, MW103 and MW19-2) that pre-dated the current Phase Two ESA and were retained for on-going ground water monitoring and sampling.

One (1) monitoring well (MW-307) was drilled deeper to a depth of 8.1 m bgs. The water level in the deep well was approximately 3.26 m bgs on March 20, 2020 corresponding to a water elevation of 213.79 m amsl. Analytical results showed no exceedances of applicable SCS in MW-307.

Measured water levels in the monitoring wells from March 2020 are summarized in Table 1. Elevations are measured with respect to a geodetic datum at mean sea level.

To establish inferred shallow ground water flow at the site, ground water elevations from March 20, 2020 were used as this monitoring event included all wells installed at the site. The depth to water in the shallow monitoring wells ranged from approximately 1.36 m (BH19-2) to 2.79 m bgs (MW-312) bgs on March 20, 2020. Corresponding water elevations in the monitoring wells ranged from 213.86 (MW-103) to 214.55 m amsl (BH19-2) on March 20, 2020. The ground water flow direction was interpreted and depicted on Figure 7. Based on these data, the highest ground water elevation at the site appears to be centered around monitoring well BH19-2 located in the north central portion of the site. The inferred shallow ground water flow is interpreted to be towards the southeast and southwest.

Ground water levels at the site is expected to be the highest during spring and lower during winter. LNAPL was not encountered in any monitoring wells during the work program.

Water infiltrates the Site through the ground surface. Influence by subsurface utilities is expected to be minimal and not expected to influence the direction of ground water flow.

5.3 Ground Water: Hydraulic Gradients

The horizontal hydraulic gradient at the Site was determined to range between 0.01m/m and 0.02 m/m. Vertical hydraulic gradient was not assessed as part of this investigation.

5.4 Fine-Medium Soil Texture

Grain size analysis completed at the Site indicated that the overburden would be considered medium to fine textured as defined by O.Reg. 153, thus, the standards for fine to medium textured soil were selected. Results of the grain size analysis is provided in Appendix I.

5.5 Soil: Field Screening and Field Observations

Field observations and results of field screening for soil samples are summarized in the borehole logs provided in Appendix B. OVM readings measured from soil samples collected from all field screened boreholes were less than 5 parts per million by volume (ppmv).

5.6 Soil: Quality

5.6.1 Metals and Inorganics

Analytical results for borehole samples analyzed for metals and inorganics are shown in Table 2 and Figures 8, 9 and 10.

The concentration of electrical conductivity (EC) in soil exceeded the MECP Table 3 SCS in the sample collected from TP19-8 at a depth of 0.0 to 0.7 m bgs with a concentration of 840 µS/cm, compared to the standard of 700 µS/cm. The source of the elevated EC is considered a result of historical application of road salt (e.g. application of salt to upgradient roadways, walkways and/or parking lots), since the presence of soluble salt increases EC concentration. The depth of the exceedance is at the surface, and the sample location is located south of the adjacent property parking lot and north of the previous historical building. The location of the exceedance are suggestive of impacts related to the application of road salt. As per Section 49.1 (1) of O. Reg. 153/04 exceedances of EC in soil are not considered to be exceedances of the SCS for purposes of filing an RSC as it is related to the application of a substance to a surface for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Consequently, EC is not a COC for the Site.

5.6.1.1 pH

pH values analysed in the soil samples collected at depths ranging between 0.0 m and 1.4 m bgs from boreholes BH-301[1], BH-305[1], BH-306B, BH-309B, BH-312[1], BH-501, BH-504, BH-508 and BH-514, were above the MECP Table 3 SCS range of 5 to 9 for pH.

pH values in the remaining analysed soil samples were below the selected standards.

Soil in the vicinity of boreholes BH-301[1], BH-305[1], BH-306B, BH-501, BH-504, BH-508 and BH-514, was removed to a maximum depth of 1.5 m bgs through remedial excavation, as discussed in Appendix C. Analytical results for pH value in soil samples collected as part of the remedial excavation are discussed in Appendix C.

It should be noted that to further delineate pH concerns at the Site, additional soil samples were collected during the geotechnical boreholes advanced as part of the geotechnical drilling program completed concurrently with the environmental program. Eight (8) boreholes BH-301, BH-304, BH-305, BH-311, BH-312, BH-313 and BH-317, were selected from the geotechnical investigation for laboratory analysis of metals or pH. However, these samples were submitted outside the laboratory holding time of 30 days. Therefore, results of these samples were used as a guidance to plan the remedial program and confirmatory soil samples and are not included in the CSM.

5.6.1.2 Metals (including arsenic)

Metals, including arsenic, analysed in all soil samples collected during the current investigation were less than MECP Table 3 SCS at depths ranging between 0.0 m and 2.1 m bgs.

[1] Sample was analyzed past the hold time and analytical results were used only for general estimation of remedial extents and is not included in the CSM.

Metals, including arsenic, analysed in the soil samples collected during the previous investigation completed by G2S (G2S, 2018) exceeded the MECP Table 3 SCS for arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, nickel, thallium, vanadium and zinc at depths ranging between 0.0 m and 1.2 m bgs in BH-102. Metals analysed in test pit samples from previous investigations completed by Wood (Wood, 2019), exceeded the MECP Table 3 SCS for EC at depth ranging from 0.0 to 0.7 m bgs. Soil in the vicinity of BH-102 and TP19-8, was removed to a maximum depth of 1.5 m bgs through remedial excavation, as discussed in Appendix C. Analytical results for metals in soil samples collected as part of the remedial excavation are discussed in Appendix C.

5.6.5 Waste Classification

Results indicate that soil removed from the Site during investigation activities may be classified as non-hazardous waste for the purpose of off-Site disposal in the Province of Ontario. Laboratory Certificates of Analysis for the waste classification sample are provided in Appendix G.

5.6.6 Chemical and Biological Transformation of Contaminants

Since the contaminants identified during current and past investigations, including EC, pH and metals, are inorganic parameters, chemical and biological transformation do not pose a concern as degradation products are applicable to these contaminants.

5.6.7 Does Soil Serve as a Contaminant Source for Other Media

The EC and metals exceedances identified in past investigations were generally located in the vicinity of TP19-8 and BH102. Given that these are inorganic parameters, the impacted soil is not considered to serve as contaminant source for other media.

pH is also an inorganic parameter, it is located in several areas of the site within the surface soil from ground surface to 1.5 m bgs. Given that pH is an inorganic parameters, the impacted soil is not considered to serve as contaminant source for other media.

5.6.8 Evaluation of Light or Dense Non-Aqueous Liquids (Soil)

Results indicate the presence of LNAPL as BTEX, PHCs and VOCs in all analysed soil samples from borehole and surface soil were less than the laboratory reportable detection limits.

5.7 Ground Water: Quality

5.7.1 Metals and Inorganics

The concentration of chloride exceeded the MECP Table 3 SCS in the ground water sample collected from monitoring well MW-101 in March 2020, with a concentration of 2,900 mg/L, compared to the standard of 2,300 mg/L. Based on analysed ground water samples collected from the remaining monitoring wells at the Site, the next highest concentration of chloride (588 mg/L) was from the other monitoring well (BH19-2) closest to the adjacent property to the North which consists of a parking lot extending across the north property line of the site. A similar trend was observed for sodium, with the highest concentration in the analysed sample from monitoring well MW-101 and the next highest concentrations in samples from monitoring well BH19-2. Lower concentrations of chloride and sodium were identified in the analysed samples from the other shallow monitoring wells. The trends for sodium and chloride concentrations in ground water samples collected from monitoring wells at the Site are suggestive of impacts related to the application of road salt. The source of the elevated chloride is considered to be located off-site upgradient of the Site (e.g. application of salt to upgradient roadways and/or parking lots). As per Section 49.1 (1) of O. Reg. 153/04 exceedances of chloride in ground water

are not considered to be exceedances of the SCS for purposes of filing an RSC as it is related to the application of a substance to a surface for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Consequently, sodium, chloride and electrical conductivity are not a COC for the Site.

Concentrations of metals and inorganic parameters in the remaining analysed ground water samples satisfied the MECP Table 3 SCSs. Ground water analytical results for metals and inorganics are provided in Table 3.

5.7.2 Petroleum Parameters

Concentrations of petroleum parameters (BTEX and PHC F1 to F4) in the all analysed ground water samples (BH19-2, MW-101, MW-103 and MW-312) satisfied the MECP Table 3 SCSs. Ground water analytical results for petroleum parameters are provided in Table 4.

5.7.3 PAHs

Concentrations of polycyclic aromatic hydrocarbons (PAH) in the all analysed ground water samples (BH19-2, MW101 and MW103) satisfied the MECP Table 3 SCSs. Ground water analytical results for PAHs are provided in Table 5.

5.8 Sediment: Quality

As no water bodies are present at the Site, sediment sampling was not conducted as part of this Phase Two ESA at the Site.

5.9 Quality Assurance and Quality Controls Results

The QA/QC program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis.

Laboratory analysis was completed in accordance with Standard Methods (e.g., MOE, 2011) and generally accepted industry practices. Laboratory QA/QC measures included analysis of method blank, spiked blank, duplicate and matrix spike samples. A certificate of analysis has been received for each sample submitted for analysis and all certificates of analysis have been included in full in Appendices G and H. All certificates of analysis received from the contract analytical laboratory comply with sub-section 47(3) of the regulation.

A review of the certificates of analysis identified instances where the analytical laboratory noted that one or more of the method blank, spiked blank, duplicate or matrix spike samples exceeded control limits were identified and evaluated to determine the potential for affecting the interpretation of the results. Antimony and silver which had an RPD outside of acceptable range in batch numbers 1244591 and 1241497. More than 90% of the parameters met acceptance limits, thus overall data quality is acceptable for use. Overall, any variability that may be present in the results as a result of these reported variances is not expected to affect the conclusions of the report.

As part of the QA/QC program, at a minimum, one (1) blind field duplicate sample was collected and analysed for every ten (10) soil samples submitted for laboratory analysis (as summarized in Section 5.15.3). Two (2) ground water field duplicates were submitted as part of the QA/QC program for ground water.

For blind field duplicate samples, the relative percent difference (RPD) was calculated to assess correlation between duplicate samples and their analytical pairs. The RPD is calculated by the following formula:

$$RPD = \frac{|X_1 - X_2|}{X_{avg}} \times 100$$

where X1 and X2 are the duplicate sample concentrations and Xavg is the mean of X1 and X2. Analytical error increases near the RDL; therefore, the RPD is not typically calculated unless the concentrations of the duplicate samples are greater than five (5) times the RDL. Generally accepted RPDs for laboratory duplicates are approximately 40 to 50% for soil and 20 to 40% for ground water. For field duplicates, acceptable limits for RPDs are 40 to 80% for soil inorganic parameters, 80 to 100% for soil organic parameters, 100% for soil vapour parameters, 40% for ground water inorganic parameters and 60% for ground water organic parameters. If the RPD for a field duplicate sample and its analytical pair did not meet acceptable RPD limits, an explanation is provided below.

Analytical results for field duplicate soil samples generally showed acceptable correlation to their corresponding analytical pairs for analysed parameters. Results for field and trip blanks samples in soil samples were generally below the laboratory RDLs for all analysed parameters. The results of the RPD calculations for soil field duplicate samples are presented in Table 8.

Supplemental soil samples submitted as part of the Phase II ESA, during the geotechnical investigations in March 2020. As such, soil samples from eight (8) boreholes (BH-301, BH-304, BH-305, BH-306, BH-311, BH-312, BH-313 and BH-317) exceeded the recommended hold time for analysis of pH. The potential variability in analytical results due to extended hold time is not considered likely to have a significant effect on the analytical results. These results were used as general guidance to estimate remedial excavation areas, however, they are not included in the CSM, in accordance with O. Reg. 153/04.

Analytical results for field and laboratory ground water samples generally showed acceptable correlation to their corresponding analytical pairs for analysed parameters. Results for field and trip blanks samples in ground water samples were generally below the laboratory RDLs for all analysed parameters.

Field blank and/or trip blank samples were also submitted during the ground water sampling work program. Analytical results for ground water field blank and trip blank samples are presented in Table 6. The results of the RPD calculations for ground water field duplicate samples are presented in Table 7.

Overall, QA/QC analysis suggests that field sampling/handling and laboratory analytical protocols were acceptable.

5.9.1 Phase Two Conceptual Site Model

5.9.2 Potentially Contaminating Activities, Areas of Potential Environmental Concern and Utilities

5.9.2.1 Potentially Contaminating Activities, Areas of Potential Environmental Concern

The area investigated included the entire Site, which includes APECs due to both on- and off-Site PCAs and AOIs as discussed in Section 4.3 and shown in Figures 4 and 5. Boreholes, surface soil sampling locations and monitoring wells utilized during the Phase Two ESA are shown relative to the APECs in Figure 5

5.9.2.2 Approximate Locations of Utilities and Other Subsurface Structures

- Approximate locations of former utilities is provided in Figure 2

- Subsurface utilities are not expected to serve as significant preferential pathways for contaminant migration since the water bearing zone mainly consists of silt and sand which allows the same migration potential as fill materials surrounding underground utilities and structures.

5.9.3 Physical Setting of Phase Two Property

5.9.3.1 Stratigraphy

Based on the current and previous investigations completed at the Site, the shallow overburden generally comprised of sand and silt fill material from ground surface to a maximum depth of 1.5 m bgs. Underlain by silty clay to clayey silt to approximately 4.5 m bgs which is overlying a silt sand layer to depths ranging from approximately 6.1 m bgs to the end of borehole at 9.1 m bgs. In some boreholes, a shale-till complex underlies the silty clay to clayey silt layer, to the end of each borehole to the maximum depth of investigation at approximately 9.3 m bgs.

5.9.3.2 Hydrogeological Settings

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl).

The nearest surface water body is an unnamed tributary of Spring Creek located approximately 35 m south of the site, and eventually discharging to Lake Ontario. The Site is primarily flat with a gentle downward slope to the south, surface runoff from the Site is directed towards the tributary to the south and southwest of the Site.

Based on the encountered geology and the measured depth to ground water, only one aquifer was investigated, and an aquitard was not identified. Results of ground water sampling did not identify exceedances of any COCPs. Analytical results showed LNAPL was not identified to be present at the site or within the aquifer. Delineation was achieved within the single identified aquifer and it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

Ground water monitoring results are provided in Table 1. Well locations and ground water elevations are shown on Figure 7. The depth to water in the shallow monitoring wells ranged from approximately 1.36 m (BH19-2) to 2.79 m bgs (MW 312) bgs on March 20, 2020. Corresponding water elevations in the monitoring wells ranged from 213.86 (MW-103) to 214.55 m amsl (BH19-2) on March 20, 2020. The ground water flow direction was interpreted and depicted on Figure 7. Based on these data, the highest ground water elevation at the site appears to be centred around monitoring well BH19-2 located in the north central portion of the Site. The inferred shallow ground water flow is interpreted to be towards the southeast and southwest from the north central portion of the Site.

The depth of water in the deep monitoring well MW-307 was approximately 3.26 m bgs on March 20, 2020 corresponding to a water elevation of 213.79 m amsl. The vertical gradient was not assessed for this investigation.

5.9.3.3 Approximate Depth to Bedrock

A shale-till complex was encountered during this investigation at an approximate depth of 6.0 m in select boreholes. Regional maps indicate the regional bedrock geology consists of the group of the Queenston Foundation, consisting of shale interbedded with limestone, dolostone and siltstone, as interpreted from Map 2544, Ontario Geologic Survey. Based on MECP well records in the vicinity of the Site (Well ID #'s of nearby wells 7251165, 4900532 and 4901153), a shale material was encounter which identifies possible bedrock at an average depth 8.5 m bgs in the vicinity of the Site.

5.9.3.4 Applicability of Section 35, 41 or 43.1

- The Site is not considered an environmentally sensitive area as defined by Section 41 of O. Reg. 153/04 since:
  - The Site is not, does not include, is not adjacent to and is not part of an area of natural significance, nor does it include land that is within 30 m of an area of natural significance;
  - The pH of surface soil is generally within the 5 to 9 range, with the exception of soil samples collected in previous investigations at the surface to 1.4 m bgs with pH values up to 11.7. The pH values of all subsurface soil samples analysed during previous investigations were within the 5 to 11 range.
    - Any soil samples with pH values identified outside of the pH ranges from previous or future investigations were removed by a subsequent remediation program, details of the remediation program are provided in Appendix C. Thus, the Site should not be considered potentially sensitive.
  - The Site is not a shallow soil property as there is more than 2 m of soil on the Site property;
- The Site does not include or is adjacent to a water body or includes land that is within 30 m of a water body.
- The Site and all other properties located, in whole or in part, within 250 m of the boundaries of the Site are supplied by a municipal drinking water system as defined in the Safe Drinking Water Act, 2002.
- Grain size analysis completed at the Site in previous investigations and the current program (Appendix I) indicated that soil at the Site is considered to be medium and fine textured as defined by O. Reg. 153/04.

Based upon the information above, Section 35, 41 and 43.1 of O. Reg 153/04 do not apply and Table 3 full depth generic site condition standards (Table 3 SCSs) for residential/parkland/institutional property use in medium and fine textured soils in a non-potable ground water condition, were selected for comparison with measured soil and ground water concentrations (MOE, 2011).

5.9.3.5 Areas on, in or under the phase two property where excess soil is finally placed

No excess soil was placed on site during the Phase II investigations. Imported fill consisting of crushed stone from Strata Aggregates of Concord, Ontario, was placed as backfill within the remedial excavation areas, further described in Appendix C. This fill is determined to be adequately characterized and would not be considered fill of unknown quality.

5.9.3.6 Approximate locations of proposed buildings and other structures

No structures currently exist on the Site with the exception of a wooden shed located in the central area of the site, adjacent to the north fence. The proposed building of the Fire Hall is expected to be located in the east portion of the property, with a paved roadway to the west and off-property to the south.

5.9.4 Areas of Site Where a Contaminant is Present On, In, or Under the Phase Two Property at a Concentration Greater Than the Applicable Site Condition Standard

Areas where contaminants are present above the MECP Table 3 SCSs in soil are shown in Figures 8, 9 and 10, respectfully. Locations of cross sections for analysis purposes is shown in Figure 6. Cross sectional figures showing contaminant distribution at the property is shown in Figure 11, 12 and 13.

5.9.4.1 Contaminants Exceeding Applicable Standards and Medium Where a Contaminant is Present

- Surface soil (<1.4 m bgs): pH
- Surface soil (<1.2 m bgs): metals – arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, nickel, thallium, vanadium and zinc

5.9.4.2 Distribution of Contaminants on the Property

pH in soil:

Lateral Limits (Figure 8): Based on measured concentrations in soil samples, pH was outside the MECP SCS range of 5 to 9 in surface soils considered to be within the majority of the site, with the exception of the eastern portion of the site. The pH exceedances are generally present near the areas of previous storage of mulch on the Site.

Vertical Limits (Figure 11): The area of soil with pH values that exceeded the MECP Table 3 SCSs was identified from 0.0 to 1.4 m bgs. The pH exceedances are generally present near ground surface, which is considered to be the result of storage of mulch on the Site Property.

Metals in soil:

Lateral Limits (Figure 9 and 10): The area of metals contamination is shown on Figure 9 and on cross section in Figure 11. Arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, nickel, thallium, vanadium and zinc exceeded the selected standards in an isolated area in the south portion of the Site. Metals contamination in surface soil are considered likely to be the result of previous activities at the Site, but based on available information, could not be associated with a specific activity.

Vertical Limits (Figure 12 and 13): The area of soil with metals concentrations that exceeded the MECP Table 3 SCSs was identified from 0.0 to 1.2 m bgs. The metals contamination is located within this depth of the overburden.

5.9.5 Migration of Contaminants

Given that the contaminants are within the med/fine grain soil type at the site, the metals impacts in soil is not expected to migrate beyond the current area of exceedance. Contaminants of concern were not identified in ground water, thus migration by ground water is not anticipated.

Subsequent to remedial activities, no contamination remains on site.

5.9.6 Meteorological and Climatic Considerations

Precipitation events may have resulted in redistribution of contaminants in the immediate surface soil. However, the areas of the Site where contamination was present was primarily in medium/fine grained soils, which allows for limited infiltration of rain/snow melt; therefore infiltration is not expected to result in leaching of contaminants deeper into the subsurface.

Subsequent to remedial activities, no contamination remains on site.

5.9.7 Cross Sections

The lateral and vertical distribution of contaminants on Site at concentrations greater than the MECP Table 3 SCS in soil, and stratigraphy are shown in Figures 11 to 13, as discussed in the previous sections.

The lateral and vertical distribution of pH and metals concentrations in soil following the remedial excavations, including the stratigraphy, are shown in Figures 17 to 19.

No utilities are considered likely to affect contamination distribution and transport.

5.9.8 Potential Release Mechanism

Source of metals (arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, nickel, thallium, vanadium and zinc) contamination is unknown but is likely from historical activities at the Site Property.

5.9.9 Potential Exposure Pathways and Receptors

The human health and ecological receptor CSMs prior to remediation, including transport pathway, receptors and routes of exposure prior to remediation are shown in Figures 20 and 21.

6 Conclusions

6.1 Summary of Exceedances

Maximum concentrations of parameters analysed in soil are provided in the tables below, with associated sample location. The tables include samples that were subsequently removed through remedial excavations and are no longer representative of conditions at the Site.

Exceedances of the MECP Table 3 SCSs were identified during the current Phase Two ESA in the following locations on-Site, and includes sample locations that were subsequently removed through remedial excavations and are no longer representative of conditions at the Site:

Contaminant of Concern		Selected MOE Table 3 Standards in Soil (µg/L)	Location of Soil Exceedance (max. concentration µg/g)
Metals & Inorganics	pH	5-9	BH-306B (11.4) BH-501 (10.92) BH-504 (9.63) BH-508 (9.94) BH-514 (11.3)

The final extents of the excavation and samples soil results for pH are shown in Figure 14.

Exceedances of the MECP Table 3 SCSs were identified during the previous Phase Two ESA conducted by G2S (G2S, 2018) and Wood (Wood, 2019) on-Site. The table below includes sample locations that were subsequently removed through remedial excavations and are no longer representative of conditions at the Site:

Contaminant of Concern		Selected MOE Table 3 Standards in Soil (µg/L)	Location of Soil Exceedance (max. concentration µg/g)
Metals & Inorganics	EC	700	TP19-8 (840 µS/cm)
	arsenic	18	BH102 (100)
	barium	390	BH102 (1,060)
	beryllium	5	BH102 (7.94)
	cadmium	1.2	BH102 (1.38)
	chromium (total)	160	BH102 (242)
	cobalt	22	BH102 (134)
	copper	120	BH102 (595)
	nickel	130	BH102 (279)
	thallium	1	BH102 (1.49)

Contaminant of Concern		Selected MOE Table 3 Standards in Soil (µg/L)	Location of Soil Exceedance (max. concentration µg/g)
	vanadium	86	BH102 (346)
	zinc	340	BH102 (631)

The final extents of the excavation and samples soil results for metals and arsenic are shown in Figure 15 and 16.

Concentrations of metals and inorganics, BTEX, PHC F1 to F4 and PAH parameters in the analysed ground water samples satisfied the MECP Table 3 SCSs.

6.2 Notice to Reader

This report has been prepared and the work referred to in this report has been undertaken by the Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) for the exclusive use of **the City of Brampton** (the Client), who has been party to the development of the scope of work and understands its limitations. The methodology, findings, conclusions, and recommendations in this report are based solely upon the scope of work and subject to the time and budgetary considerations described in the proposal and/or contract pursuant to which this report was issued. Any use, reliance on, or decision made by a third party based on this report is the sole responsibility of such third party. SNC-Lavalin accepts no liability or responsibility for any damages that may be suffered or incurred by any third party as a result of the use of, reliance on, or any decision made based on this report.

The findings, conclusions, and recommendations in this report (i) have been developed in a manner consistent with the level of skill normally exercised by professionals currently practicing under similar conditions in the area, and (ii) reflect SNC-Lavalin's best judgment based on information available at the time of preparation of this report. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our original contract and included in this report. The findings and conclusions contained in this report are valid only as of the date of this report and may be based, in part, upon information provided by others. If any of the information is inaccurate, new information is discovered, site conditions change, or applicable standards are amended, modifications to this report may be necessary. The results of this assessment should in no way be construed as a warranty that the subject site is free from any and all contamination.

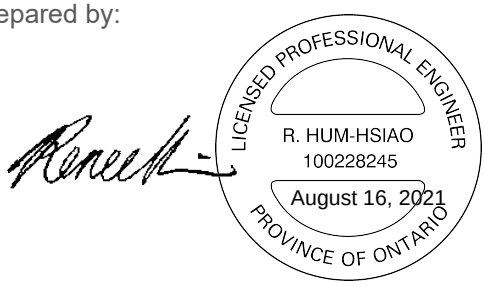
Any soil and rock descriptions in this report and associated logs have been made with the intent of providing general information on the subsurface conditions of the site. This information should not be used as geotechnical data for any purpose unless specifically addressed in the text of this report. Ground water conditions described in this report refer only to those observed at the location and time of observation noted in the report.

This report must be read as a whole, as sections taken out of context may be misleading. If discrepancies occur between the preliminary (draft) and final versions of this report, it is the final version that takes precedence. Nothing in this report is intended to constitute or provide a legal opinion.

The contents of this report are confidential and proprietary. Other than by the Client, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of the Client and SNC-Lavalin.

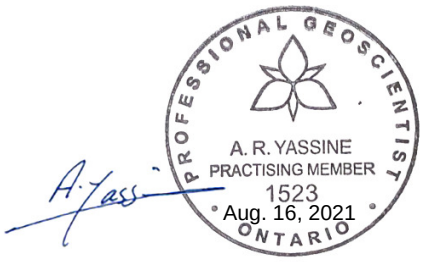
6.3 Signatures

Prepared by:



Renee Hum-Hsiao, P. Eng.
Environmental Engineer

Reviewed by:



Abed Yassine, P. Geo.
Senior Geoscientist

Environment & Geoscience
Engineering, Design and Project Management

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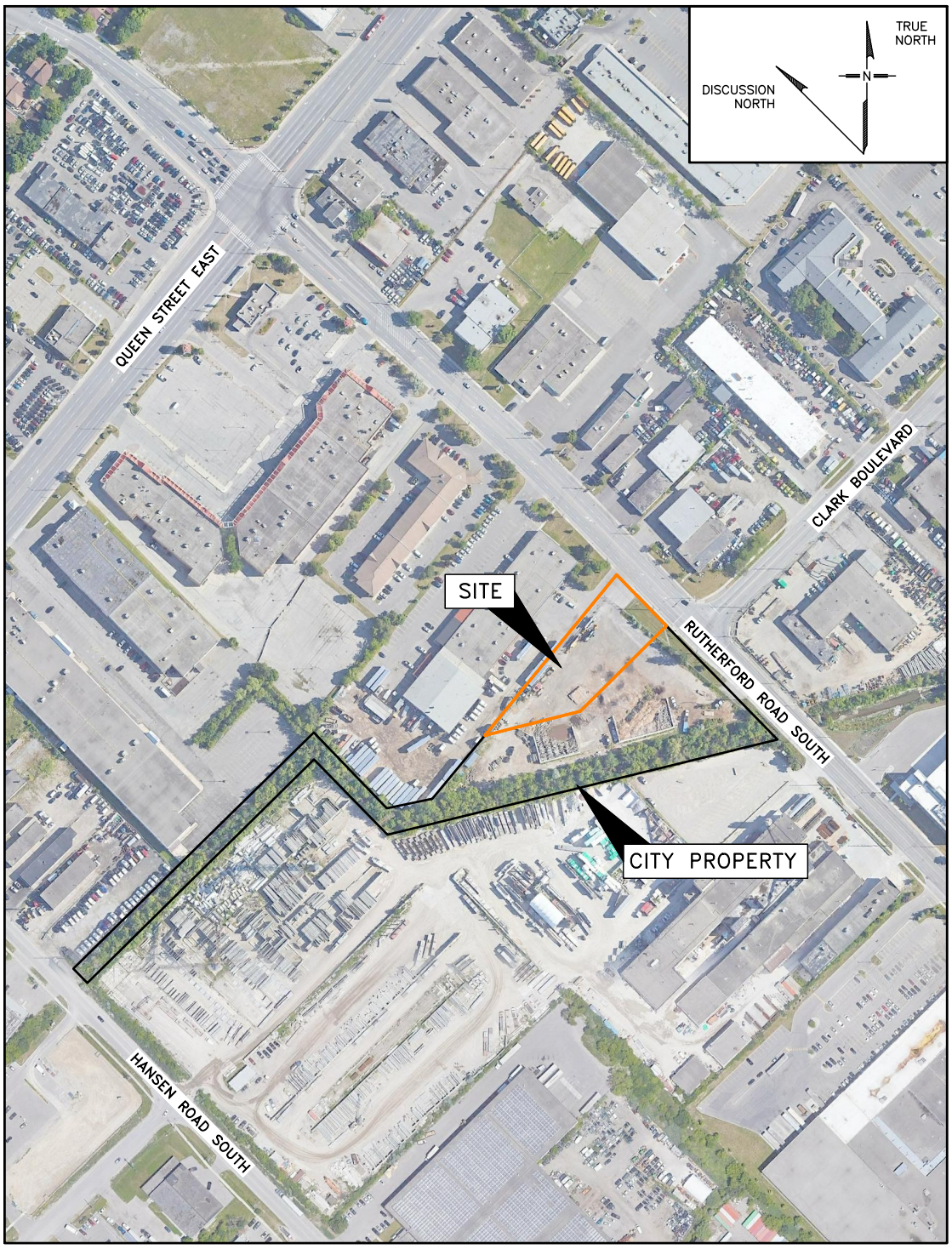
FIGURES



SOURCE(S):
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SNC·LAVALIN

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Project No: 671835	Filename: 011F01_671835	Date: AUGUST 2021	Dwg No: FIGURE 1
Drawn: AG	Verified: RHH	Project Manager: AY	

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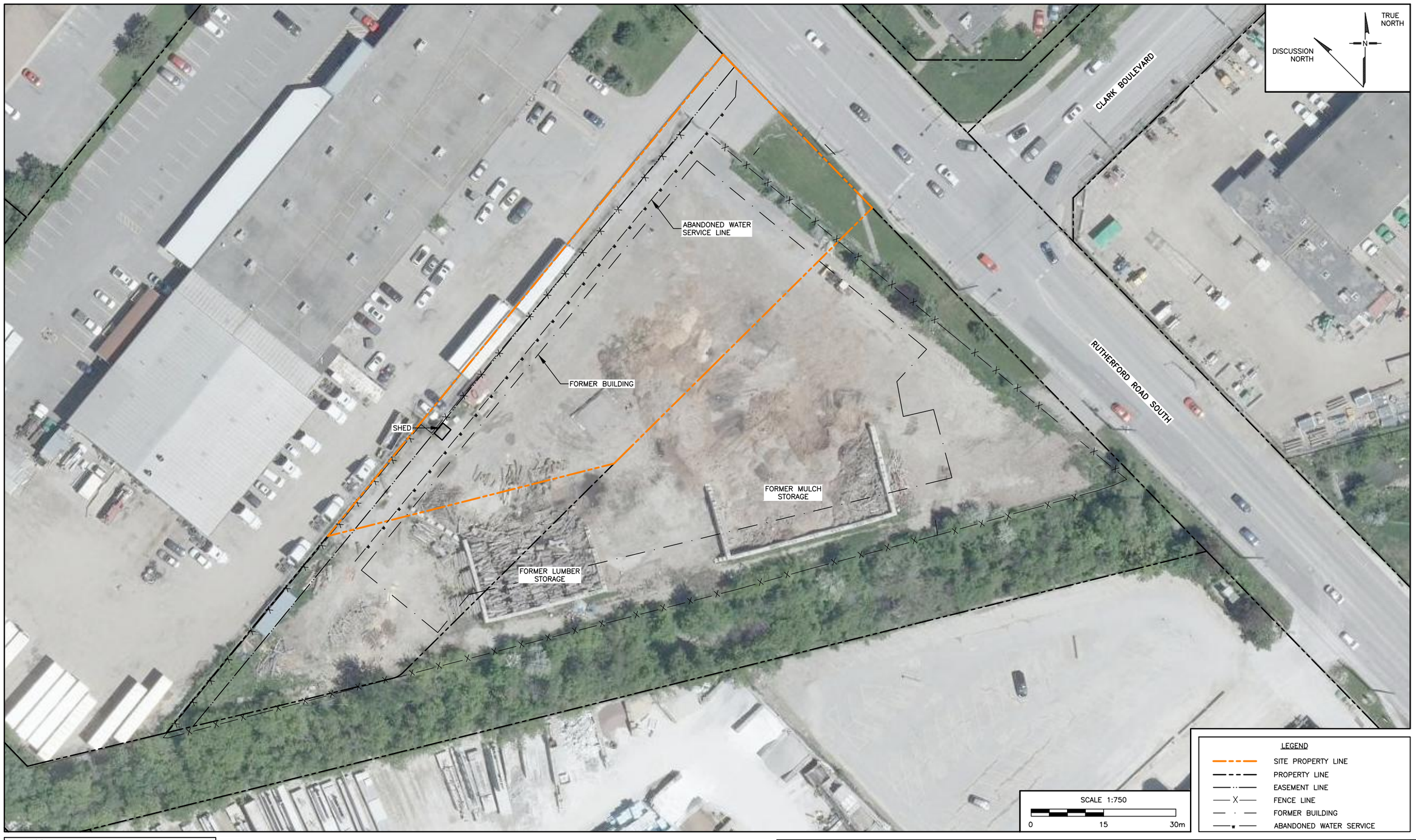

NOTE(S):
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SOURCE(S):
1. CITY OF BRAMPTON, ONLINE MAP, JANUARY 2020
2. WOOD ENVIRONMENT AND INFRASTRUCTURE SOLUTIONS, PHASE TWO ENVIRONMENTAL SITE ASSESSMENT, BOREHOLE/MONITORING WELL AND TEST PIT LOCATION PLAN, FIGURE 5, PROJECT No. TOR190020.3000, OCTOBER 2019

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Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: HISTORICAL SITE LAYOUT	
Project No: 671835	Filename: 011F02_671835	Date: AUGUST 2021	Dwg No: FIGURE 2
Drawn: AG	Verified: RHH	Project Manager: AY	

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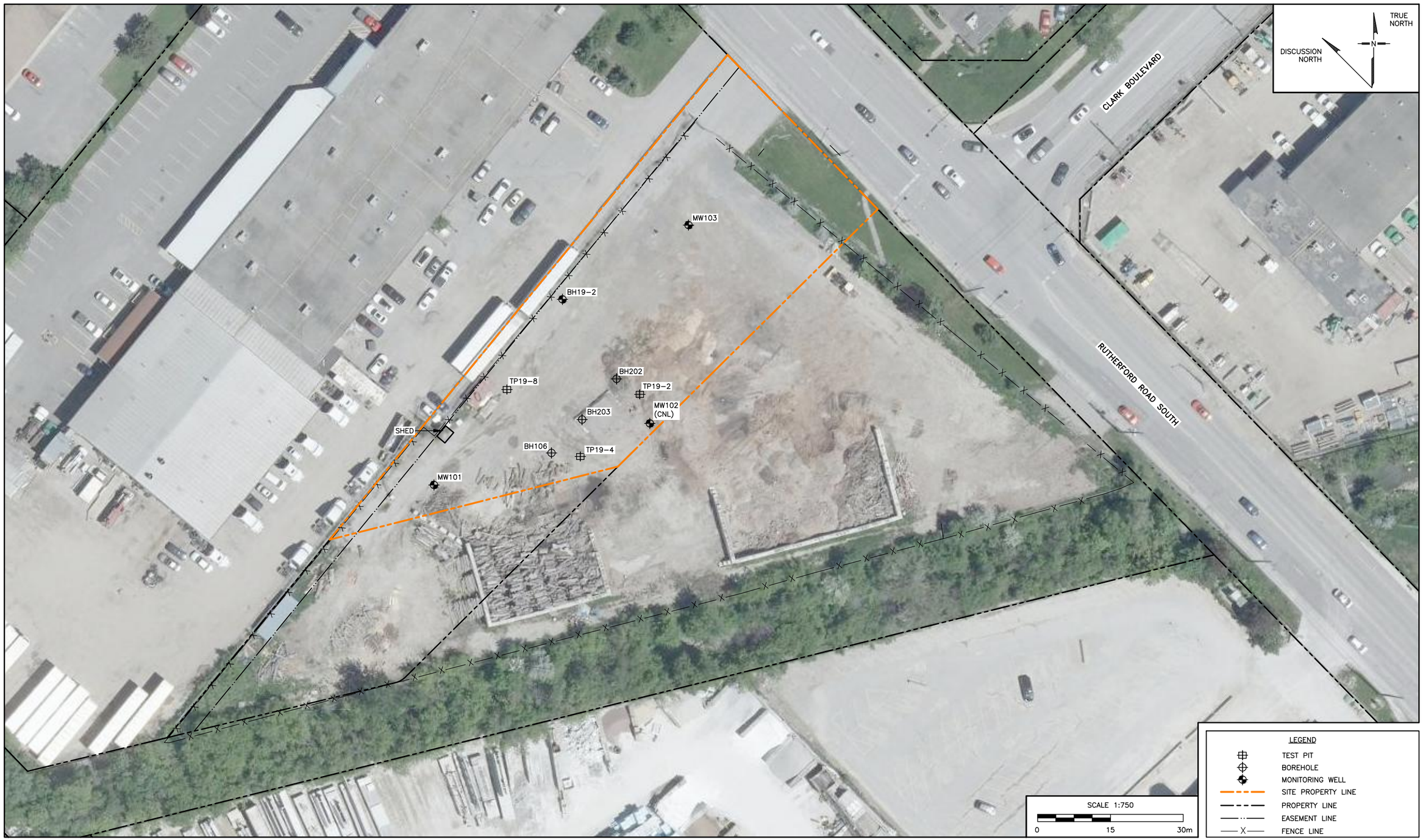

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SOURCE(S):
1. CITY OF BRAMPTON, ONLINE MAP, JANUARY 2020
2. WOOD ENVIRONMENT AND INFRASTRUCTURE SOLUTIONS, PHASE TWO ENVIRONMENTAL SITE ASSESSMENT, BOREHOLE/MONITORING WELL AND TEST PIT LOCATION PLAN, FIGURE 5, PROJECT No. TOR190020.3000, OCTOBER 2019

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: HISTORICAL BOREHOLE/MONITORING WELL LOCATION PLAN	
Project No: 671835	Filename: 011F03_671835	Date: AUGUST 2021	Dwg No: FIGURE 3
Drawn: AG	Verified: RHH	Project Manager: AY	

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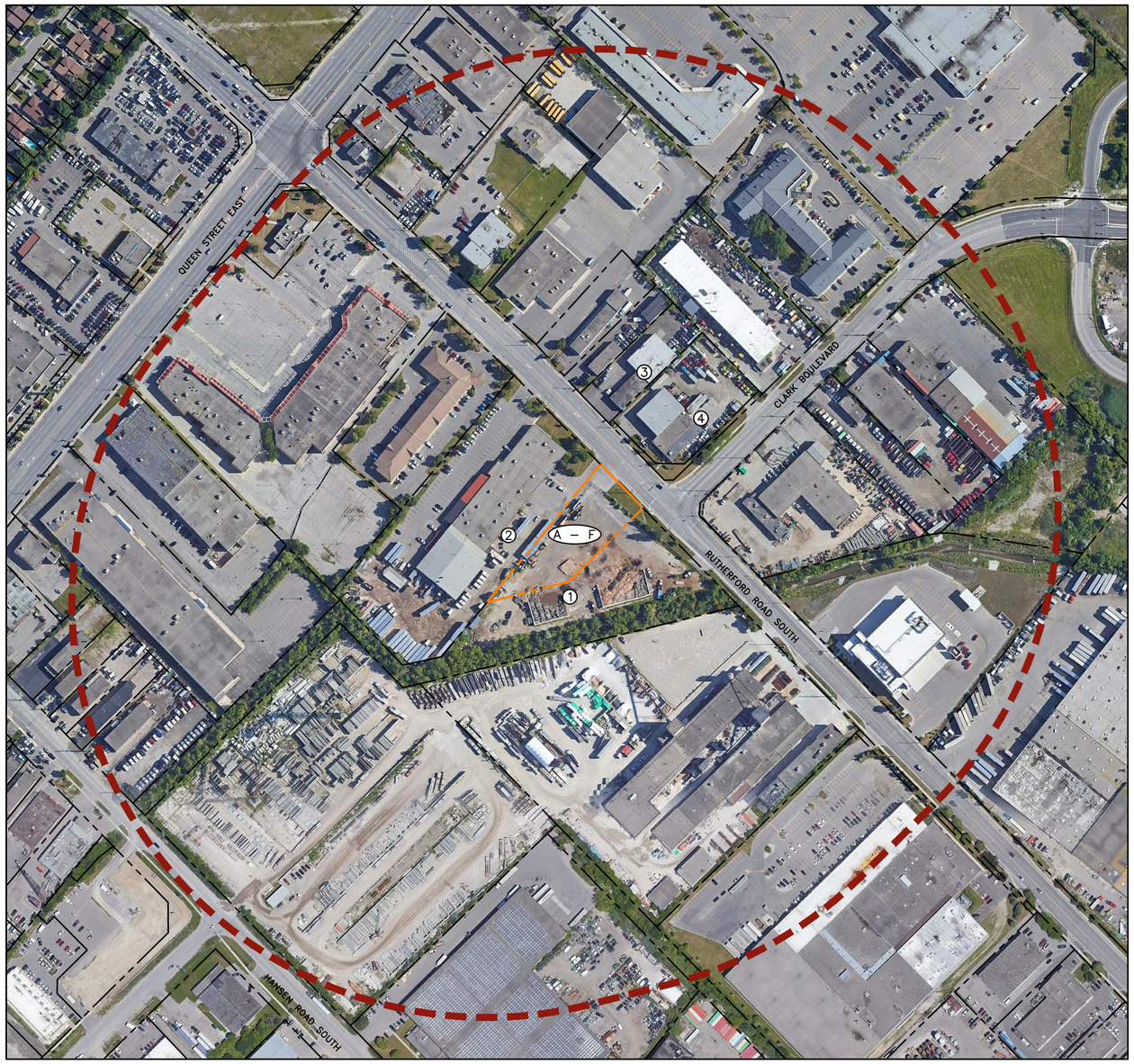

TRUE NORTH

DISCUSSION NORTH

ON PHASE ONE STUDY PROPERTY ARE THERE?		
EXISTING STRUCTURES/BUILDINGS	YES	WOODEN SHED
WATER WELLS	NO	
IN PHASE ONE STUDY AREA ARE THERE?		
ROADS	YES	SEE FIGURE
WATER BODIES	YES	UNNAMED TRIBUARY OF THE SPRING CREEK – SOUTH OF THE SITE
AREA OF NATURAL SIGNIFICANCE	NO	

ON–SITE LOCATION	PCA No.	POTENTIAL CONTAMINATION ACTIVITY TYPE	DESCRIPTION
A	10	COMMERCIAL AUTOBODY SHOPS	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CAR SHOP AND DO IT YOURSELF CENTRE.
B	30	IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY	FILL WAS IDENTIFIED DURING PREVIOUS SUBSURFACE INVESTIGATIONS COMPLETED AT THE SITE.
C	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH PAINT STORAGE BY KUSTOM AIRWORKS AND THE CITY OF BRAMPTON'S USE OF THE SITE AS A STORAGE YARD.
D	45	PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CARDBOARD CONTAINER MANUFACTURING BY KIRK CONTAINERS LTD AND BROCK CONTAINERS LIMITED.
E	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
F	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING BY CANADA–FERRO COMPANY LIMITED.
OFF–SITE LOCATION	**PCA No.**	**POTENTIAL CONTAMINATION ACTIVITY TYPE**	**DESCRIPTION**
1	10	COMMERCIAL AUTOBODY SHOPS	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CAR SHOP AND DO IT YOURSELF CENTRE.
	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH PAINT STORAGE BY KUSTOM AIRWORKS AND THE CITY OF BRAMPTON'S USE OF THE SITE AS A STORAGE YARD.
	45	PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH CARDBOARD CONTAINER MANUFACTURING BY KIRK CONTAINERS LTD AND BROCK CONTAINERS LIMITED.
	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	POTENTIAL IMPACTS DUE TO HISTORICAL ACTIVITIES ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING BY CANADA–FERRO COMPANY LIMITED.
2	19	ELECTRONIC AND COMPUTER EQUIPMENT MANUFACTURING	SIGNAGE & LIGHTING SYSTEM INC. EXISTS AT THIS LOCATION AND IS ASSOCIATED WITH ACTIVITIES RELATED TO MANUFACTURING OF ELECTRONIC SIGNS.
	27	GARAGES AND MAINTENANCE AND REPAIR OF RAILCARS, MARINE VEHICLES AND AVIATION VEHICLES (TRUCK REPAIR)	RAPRI TRUCK REPAIR CENTRE AND SUPER FAST TRUCKLINES EXIST AT THIS LOCATION AND ARE ASSOCIATED WITH TRUCK REPAIRS AND STORAGE OF TRUCKS.
	39	PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE	C–MAX PAINT AND SIGNAGE & LIGHTING SYSTEM INC. EXIST AT THIS LOCATION AND ARE ASSOCIATED WITH ACTIVITIES RELATED TO BULK PAINT STORAGE.
	48	SALT MANUFACTURING, PROCESSING AND BULK STORAGE	POTENTIAL IMPACTS FROM THE HISTORICAL USE OF ROAD SALT, HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE SITE.
	57	VEHICLES AND ASSOCIATED PARTS MANUFACTURING	CANADA FERRO CO LTD. EXISTED AT THIS LOCATION WAS ASSOCIATED WITH AUTOMOBILE PARTS MANUFACTURING.
3	10	COMMERCIAL AUTOBODY SHOPS	COMMERCIAL AUTOBODY SHOP
4	10	COMMERCIAL AUTOBODY SHOPS	COMMERCIAL AUTOBODY SHOP
	12	CONCRETE, CEMENT AND LIME MANUFACTURING	CONCRETE, CEMENT AND LIME MANUFACTURING AND VEHICLES AND ASSOCIATED PARTS MANUFACTURING

LEGEND

Ⓐ① POTENTIAL CONTAMINATING ACTIVITY/ ACTIVITIES OF ENVIRONMENTAL INTEREST ITEM NUMBER AS DEFINED IN TABLE 2 WITHIN PART VI OF SCHEDULE D OF O. REG. 153/04

PHASE ONE PROPERTY LIMIT

PROPERTY LINE

300m FROM SITE PROPERTY LINE

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, JUNE 9, 2018

SCALE 1:3,000

0 80 120m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: PHASE ONE CONCEPTUAL SITE MODEL POTENTIALLY CONTAMINATING ACTIVITIES

Project No:	Filename:	Date:	Dwg No:
671835	011F04_671835	AUGUST 2021	FIGURE 4
Drawn: AG	Verified: RHH	Project Manager: AY	

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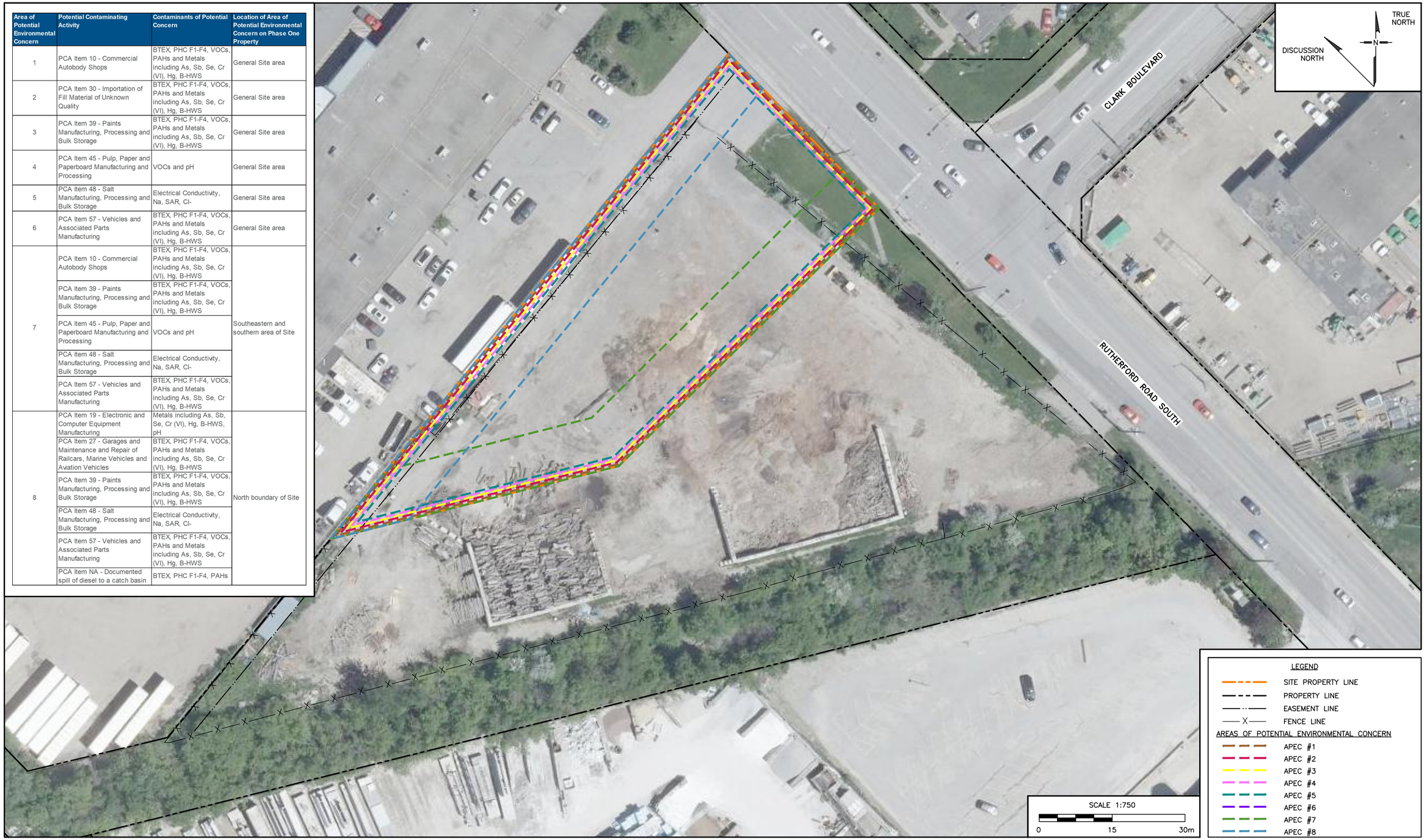
Area of Potential Environmental Concern	Potential Contaminating Activity	Contaminants of Potential Concern	Location of Area of Potential Environmental Concern on Phase One Property
1	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
2	PCA Item 30 - Importation of Fill Material of Unknown Quality	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
3	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
4	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	General Site area
5	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	General Site area
6	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
7	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Southeastern and southern area of Site
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
8	PCA Item 19 - Electronic and Computer Equipment Manufacturing	Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	North boundary of Site
	PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item NA - Documented spill of diesel to a catch basin	BTEX, PHC F1-F4, PAHs	



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3. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title: PHASE ONE CONCEPTUAL SITE MODEL
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Project No:	Filename:	Date:	Dwg No:
671835	011F05_671835	AUGUST 2021	FIGURE 5
Drawn: AG	Verified: RHH	Project Manager: AY	

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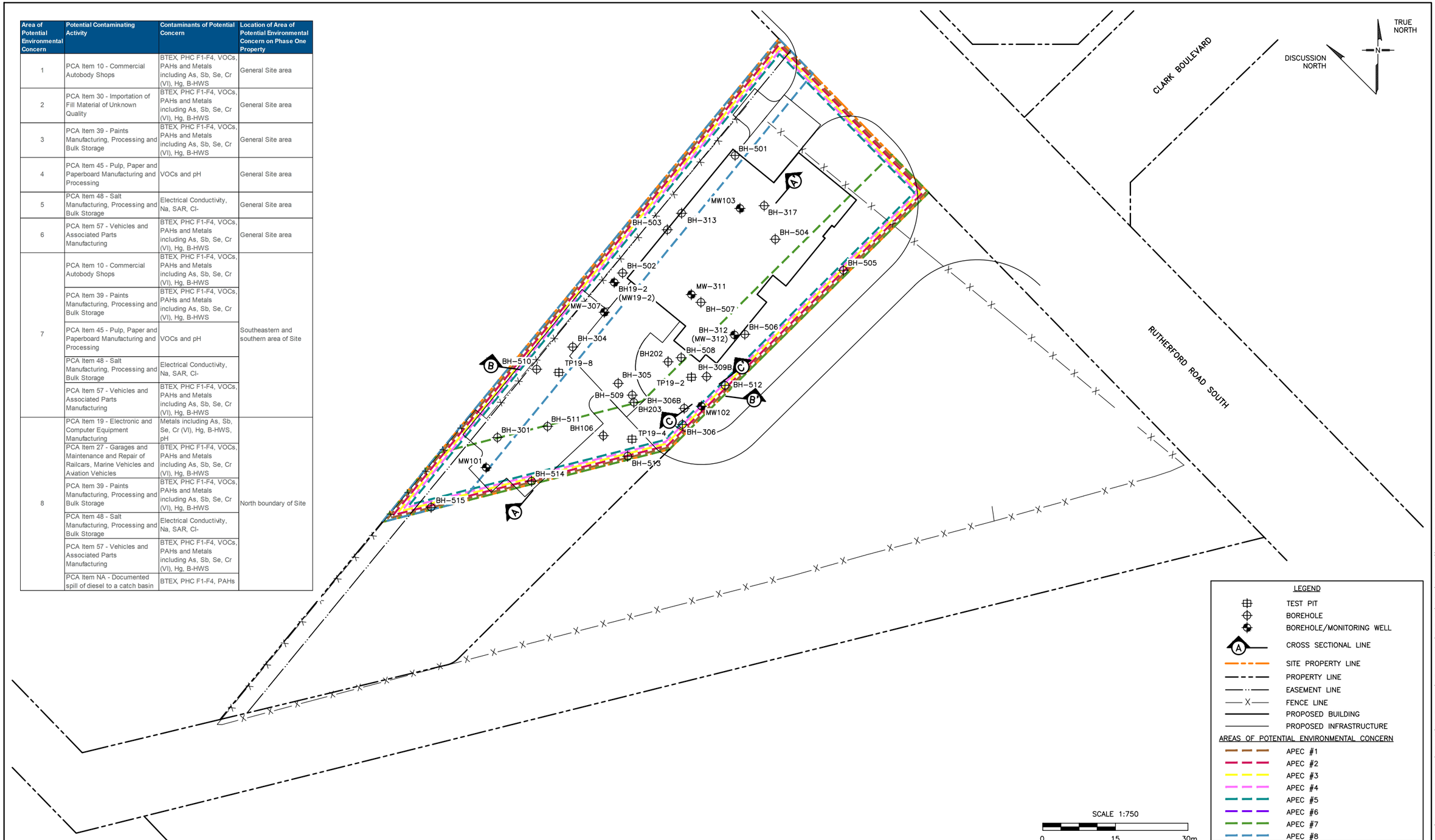
Area of Potential Environmental Concern	Potential Contaminating Activity	Contaminants of Potential Concern	Location of Area of Potential Environmental Concern on Phase One Property
1	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
2	PCA Item 30 - Importation of Fill Material of Unknown Quality	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
3	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
4	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	General Site area
5	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	General Site area
6	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	General Site area
7	PCA Item 10 - Commercial Autobody Shops	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Southeastern and southern area of Site
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing	VOCs and pH	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
8	PCA Item 19 - Electronic and Computer Equipment Manufacturing	Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	North boundary of Site
	PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage	Electrical Conductivity, Na, SAR, Cl-	
	PCA Item 57 - Vehicles and Associated Parts Manufacturing	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
	PCA Item NA - Documented spill of diesel to a catch basin	BTEX, PHC F1-F4, PAHs	



LEGEND

- TEST PIT
- BOREHOLE
- BOREHOLE/MONITORING WELL
- CROSS SECTIONAL LINE
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- FENCE LINE
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

- APEC #1
- APEC #2
- APEC #3
- APEC #4
- APEC #5
- APEC #6
- APEC #7
- APEC #8

SCALE 1:750

0 15 30m

NOTE(S):
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3. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title: SAMPLING LOCATIONS AND CROSS SECTIONAL LINES

Project No:	Filename:	Date:	Dwg No:
671835	011F06_671835	AUGUST 2021	FIGURE 6
Drawn: AG	Verified: RHH	Project Manager: AY	

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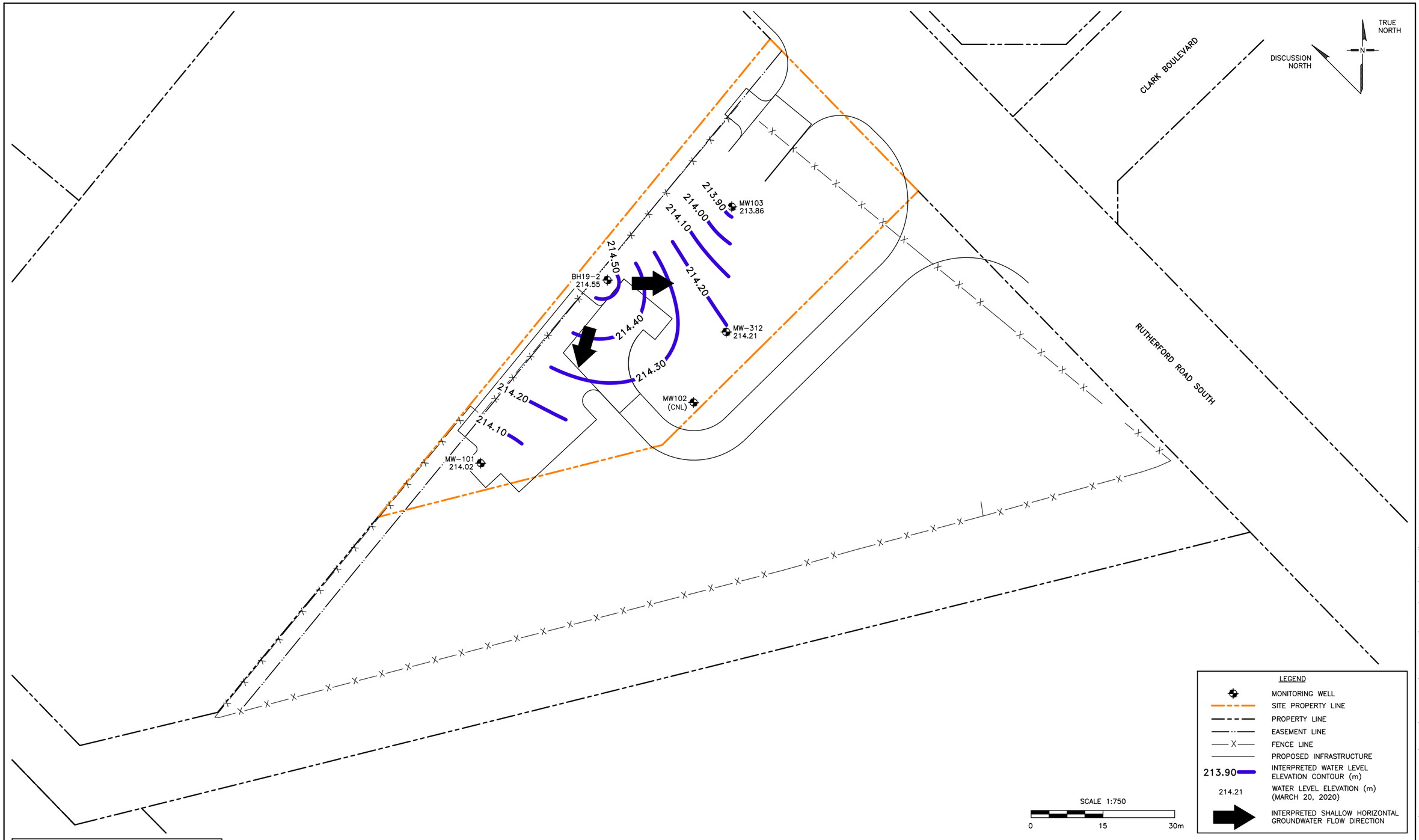

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3. 'CNL' : COULD NOT LOCATE
4. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW DIRECTION (MARCH 20, 2020)	
Project No: 671835	Filename: 011F07_671835	Date: AUGUST 2021	Dwg No: FIGURE 7
Drawn: AG	Verified: RHH	Project Manager: AY	

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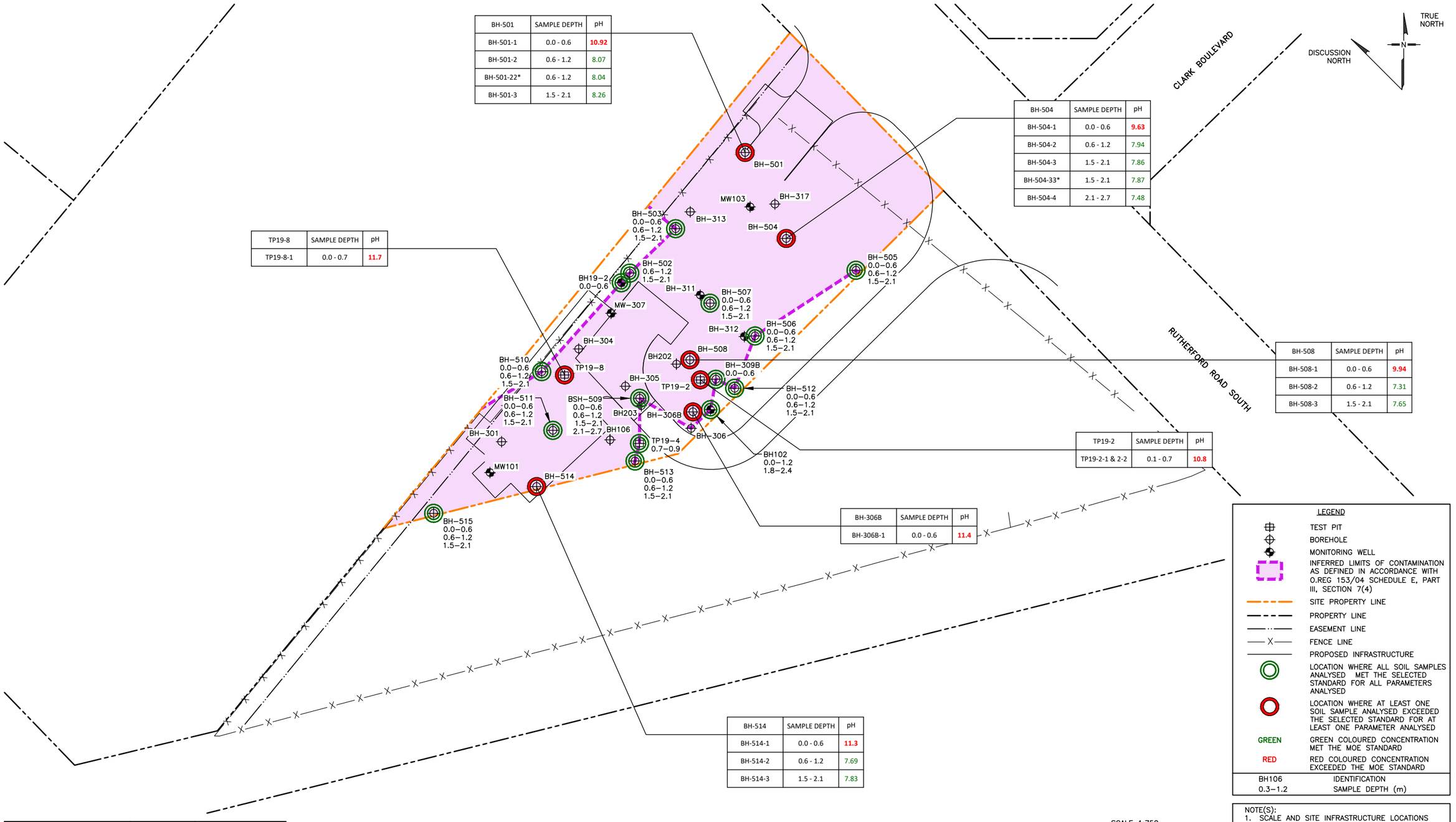

BH-501	SAMPLE DEPTH	pH
BH-501-1	0.0 - 0.6	10.92
BH-501-2	0.6 - 1.2	8.07
BH-501-22*	0.6 - 1.2	8.04
BH-501-3	1.5 - 2.1	8.26

TP19-8	SAMPLE DEPTH	pH
TP19-8-1	0.0 - 0.7	11.7

BH-504	SAMPLE DEPTH	pH
BH-504-1	0.0 - 0.6	9.63
BH-504-2	0.6 - 1.2	7.94
BH-504-3	1.5 - 2.1	7.86
BH-504-33*	1.5 - 2.1	7.87
BH-504-4	2.1 - 2.7	7.48

BH-508	SAMPLE DEPTH	pH
BH-508-1	0.0 - 0.6	9.94
BH-508-2	0.6 - 1.2	7.31
BH-508-3	1.5 - 2.1	7.65

TP19-2	SAMPLE DEPTH	pH
TP19-2-1 & 2-2	0.1 - 0.7	10.8

BH-306B	SAMPLE DEPTH	pH
BH-306B-1	0.0 - 0.6	11.4

BH-514	SAMPLE DEPTH	pH
BH-514-1	0.0 - 0.6	11.3
BH-514-2	0.6 - 1.2	7.69
BH-514-3	1.5 - 2.1	7.83

LEGEND

- TEST PIT
- BOREHOLE
- MONITORING WELL
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- FENCE LINE
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

BH106	IDENTIFICATION
0.3–1.2	SAMPLE DEPTH (m)

NOTE(S):
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SCALE 1:750

0 15 30m

PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. '*' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
2. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: SOIL ANALYTICAL RESULTS (pH)

Project No:	Filename:	Date:	Dwg No:
671835	011F08_671835	AUGUST 2021	FIGURE 8
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

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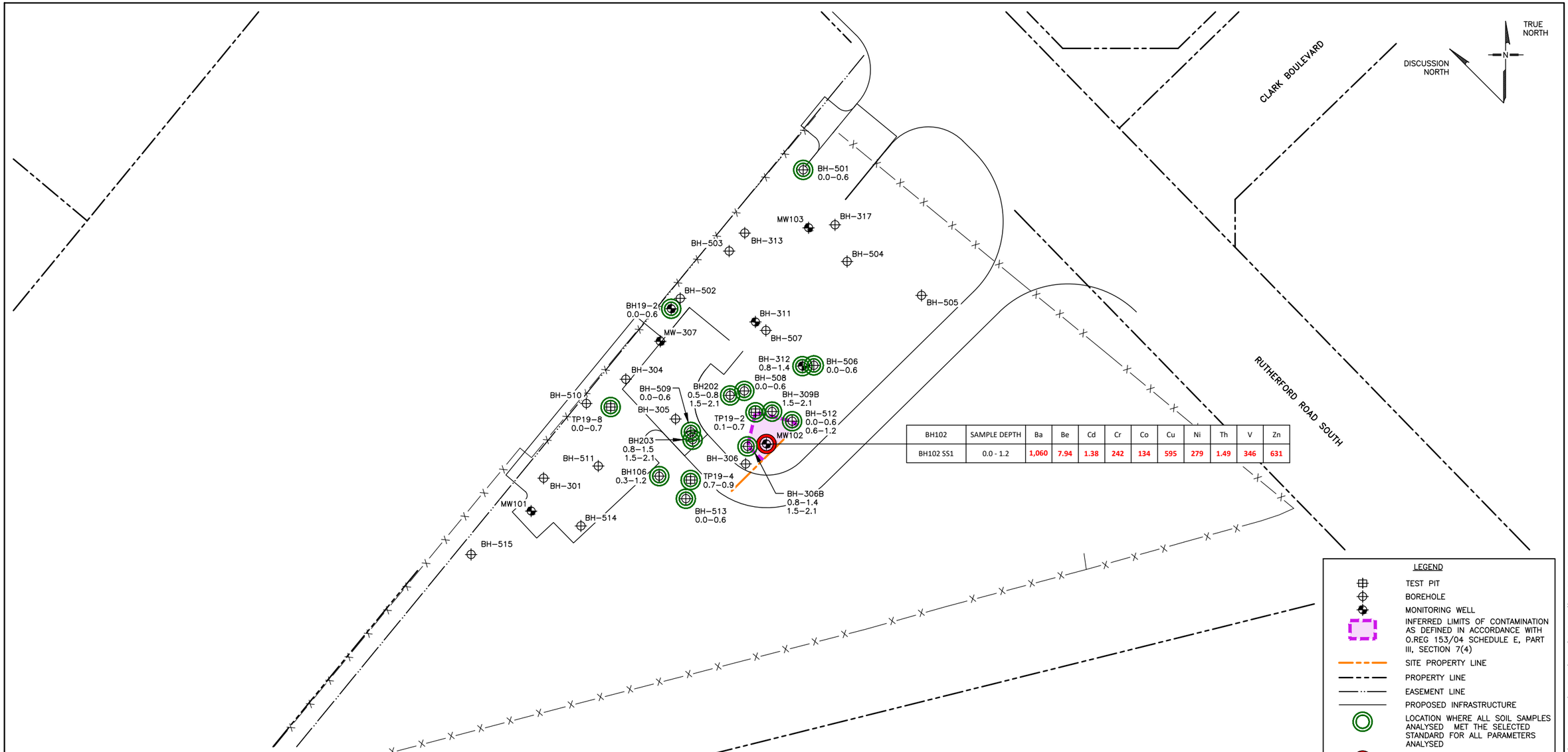

BH102	SAMPLE DEPTH	Ba	Be	Cd	Cr	Co	Cu	Ni	Th	V	Zn
BH102 SS1	0.0 - 1.2	1,060	7.94	1.38	242	134	595	279	1.49	346	631

PARAMETERS	ABBREVIATION	STANDARDS
BARIUM	Ba	390
BERYLLIUM	Be	5
CADMIUM	Cd	1.2
CHROMIUM (TOTAL)	Cr	160
COBALT	Co	22
COPPER	Cu	180
NICKEL	Ni	130
THALLIUM	Ti	1
VANADIUM	V	86
ZINC	Zn	340

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. ALL CONCENTRATIONS IN MICROGRAMS/GRAM (µg/g) BY DRY WEIGHT BASIS
2. 'm' : METRES

LEGEND

- TEST PIT
- BOREHOLE
- MONITORING WELL
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

BH106	IDENTIFICATION
0.3–1.2	SAMPLE DEPTH (m)

NOTE(S):
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SCALE 1:750

0 15 30m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: SOIL ANALYTICAL RESULTS (METALS)

Project No:	Filename:	Date:	Dwg No:
671835	011F09_671835	AUGUST 2021	FIGURE 9
Drawn: AG	Verified: RHH	Project Manager: AY	

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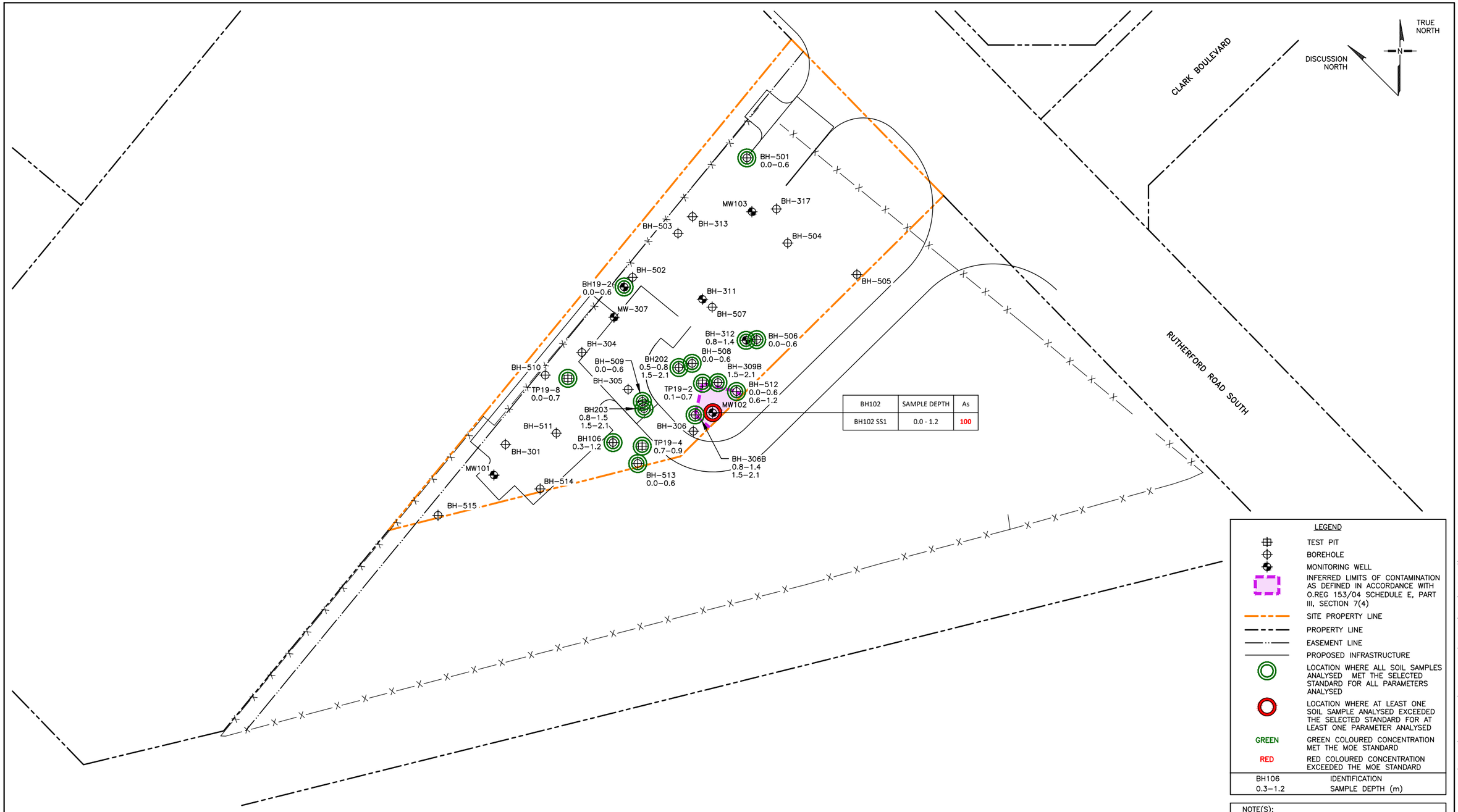

BH102	SAMPLE DEPTH	As
BH102 SS1	0.0 - 1.2	100

LEGEND

- TEST PIT
- BOREHOLE
- MONITORING WELL
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

BH106	IDENTIFICATION
0.3–1.2	SAMPLE DEPTH (m)

NOTE(S):
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SCALE 1:750

0 15 30m

PARAMETERS	ABBREVIATION	STANDARDS
ARSENIC	As	18

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. ALL CONCENTRATIONS IN MICROGRAMS/GRAM (µg/g) BY DRY WEIGHT BASIS
2. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: SOIL ANALYTICAL RESULTS (ARSENIC, ANTIMONY AND SELENIUM)

Project No:	Filename:	Date:	Dwg No:
671835	011F10_671835	AUGUST 2021	FIGURE 10
Drawn: AG	Verified: RHH	Project Manager: AY	

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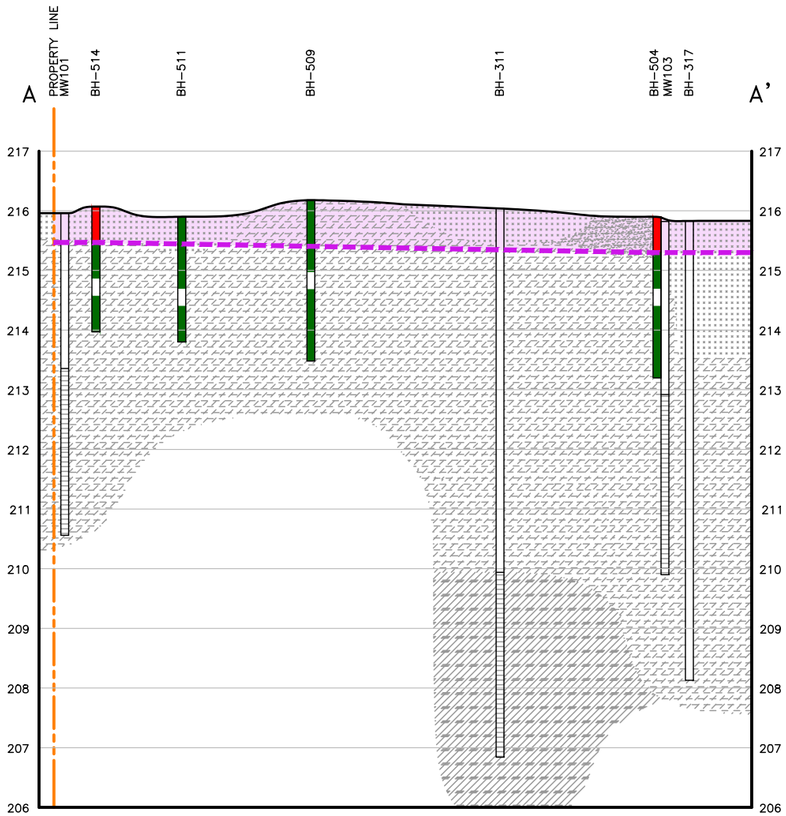

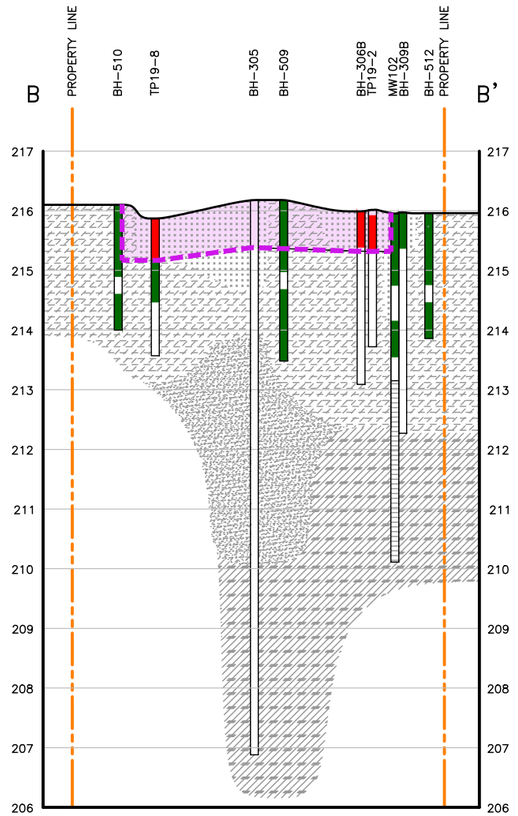

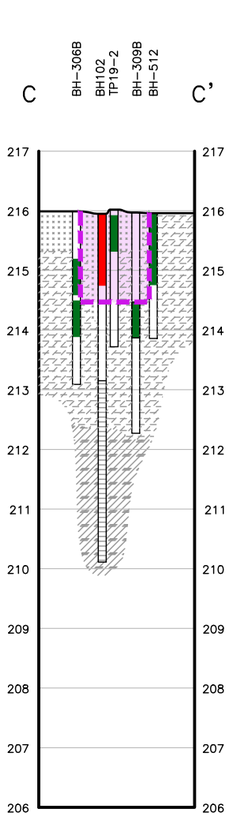

LEGEND

- BOREHOLE
- MONITORING WELL
- LOCATION WHERE SOIL SAMPLES ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- FILL
- SILTY CLAY, CLAYEY SILT
- SILTY SAND, SAND AND SILT
- SAND
- CLAY
- SHALE – TILL COMPLEX

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

VERTICAL SCALE 1:100

0 2 4m

SCALE 1:750

0 15 30m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title: GENERALIZED GEOLOGICAL CROSS SECTIONS (A–A', B–B' AND C–C') WITH SOIL ANALYTICAL RESULTS FOR pH

Project No:	Filename:	Date:	Dwg No:
671835	011F11_671835	AUGUST 2021	FIGURE 11
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

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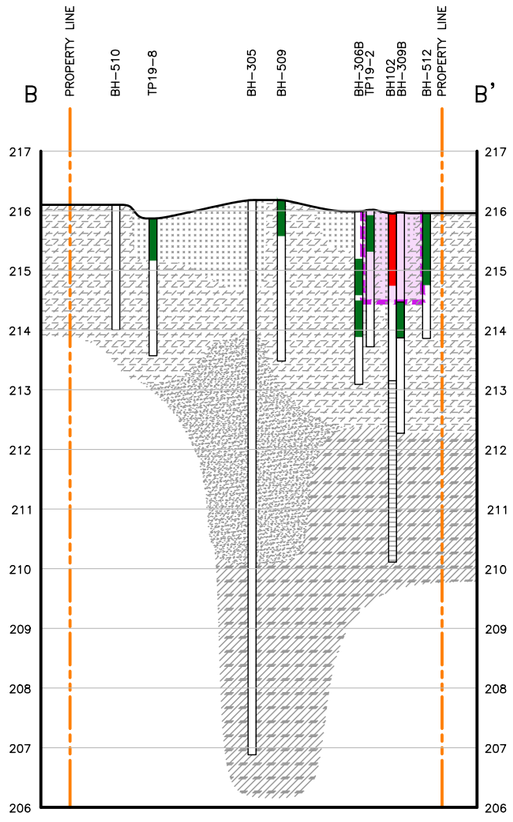

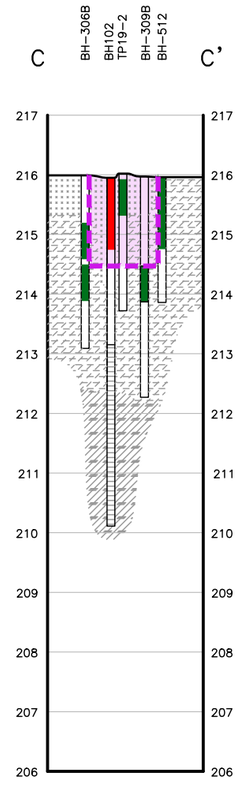

LEGEND

- BOREHOLE
- MONITORING WELL
- LOCATION WHERE SOIL SAMPLES ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- FILL
- SILTY CLAY, CLAYEY SILT
- SILTY SAND, SAND AND SILT
- SAND
- CLAY
- SHALE – TILL COMPLEX

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

VERTICAL SCALE 1:100
0 2 4m

SCALE 1:750
0 15 30m

SNC·LAVALIN

Client/Location:
CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title:
GENERALIZED GEOLOGICAL CROSS SECTIONS
(B–B' AND C–C') WITH SOIL ANALYTICAL
RESULTS FOR SELECT METALS

Project No:	Filename:	Date:	Dwg No:
671835	011F12_671835	AUGUST 2021	FIGURE 12
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

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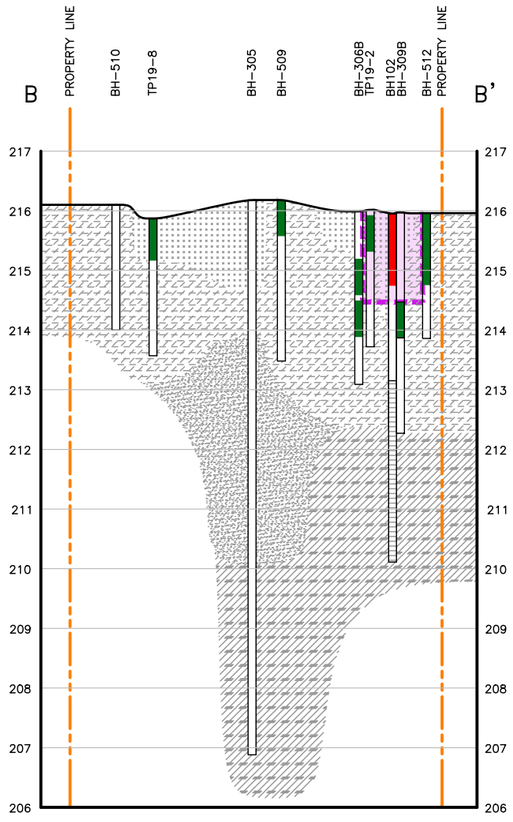

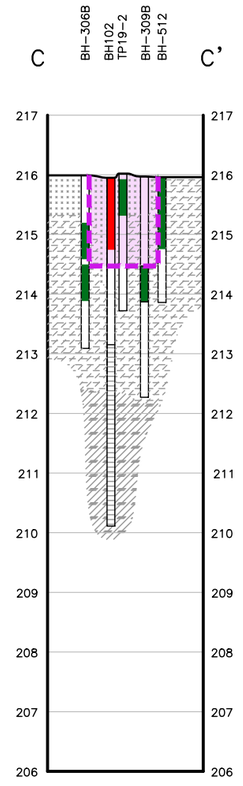

LEGEND

- BOREHOLE
- MONITORING WELL
- LOCATION WHERE SOIL SAMPLES ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- FILL
- SILTY CLAY, CLAYEY SILT
- SILTY SAND, SAND AND SILT
- SAND
- CLAY
- SHALE – TILL COMPLEX

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

VERTICAL SCALE 1:100
0 2 4m

SCALE 1:750
0 15 30m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: GENERALIZED GEOLOGICAL CROSS SECTIONS (C–C' AND D–D') WITH SOIL ANALYTICAL RESULTS FOR ARSENIC, ANTIMONY AND SELENIUM	
Project No: 671835	Filename: 011F13_671835	Date: AUGUST 2021	Dwg No: FIGURE 13
Drawn: AG	Verified: RHH	Project Manager: AY	

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PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. '•' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
2. 'm' : METRES

SCALE 1:300

0 6 12m

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

LEGEND

- TEST PIT
- BOREHOLE
- SUBMITTED EXCAVATION SOIL SAMPLE
- MONITORING WELL
- EXCAVATED AREA
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: FINAL SOIL ANALYTICAL RESULTS (pH)	
Project No: 671835	Filename: 011F14_671835	Date: AUGUST 2021	Dwg No: FIGURE 14
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 17x22

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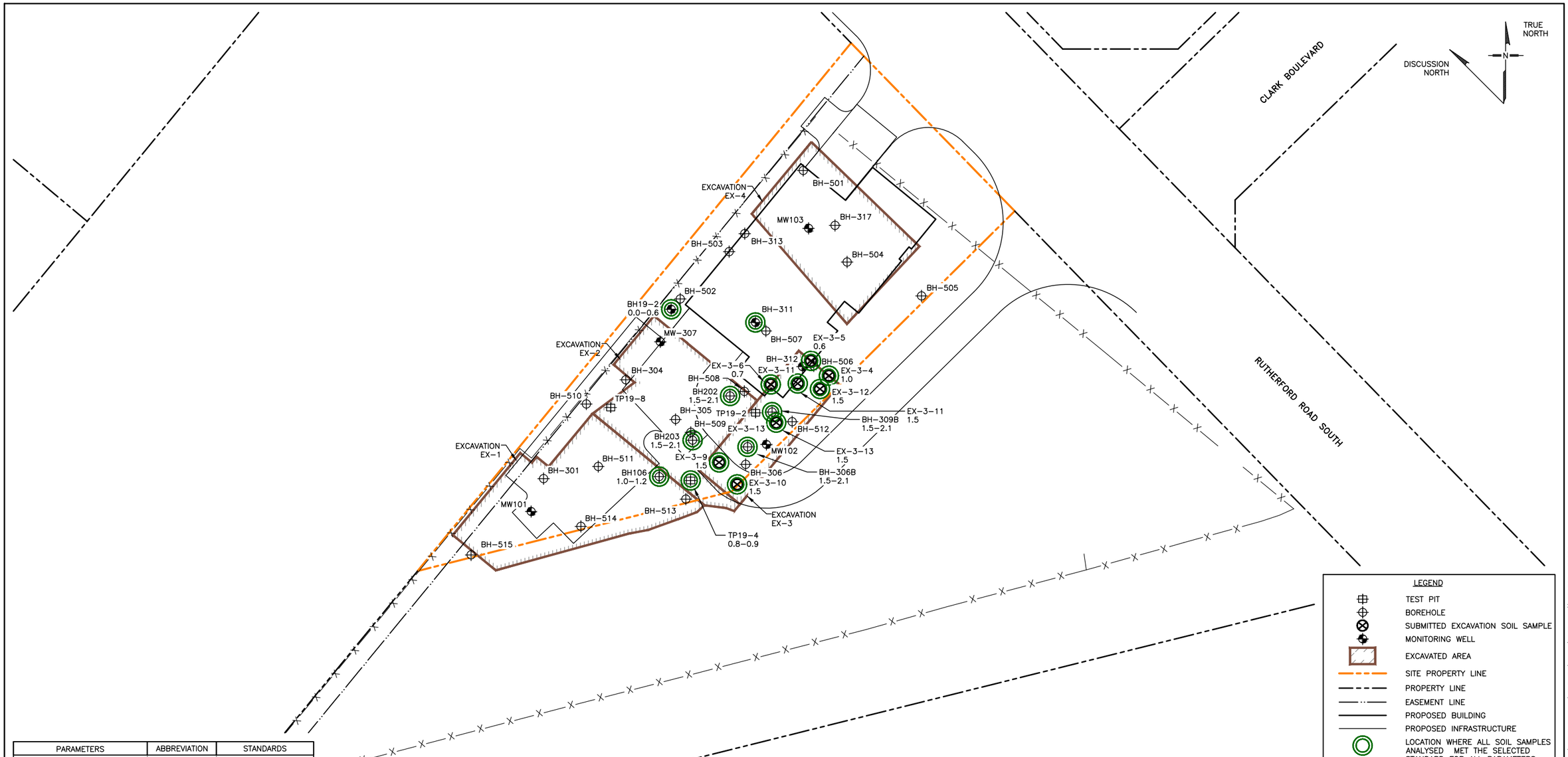

PARAMETERS	ABBREVIATION	STANDARDS
ARSENIC	As	18
BARIUM	Ba	390
BERYLLIUM	Be	5
CADMIUM	Cd	1.2
CHROMIUM (TOTAL)	Cr	160
COBALT	Co	22
COPPER	Cu	180
NICKEL	Ni	130
THALLIUM	Ti	1
VANADIUM	V	86
ZINC	Zn	340

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. ALL CONCENTRATIONS IN MICROGRAMS/GRAM (µg/g) BY DRY WEIGHT BASIS
2. 'm' : METRES

LEGEND

- TEST PIT
- BOREHOLE
- SUBMITTED EXCAVATION SOIL SAMPLE
- MONITORING WELL
- EXCAVATED AREA
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

SCALE 1:750

0 15 30m

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: FINAL SOIL ANALYTICAL RESULTS (METALS)	
Project No: 671835	Filename: 011F15_671835	Date: AUGUST 2021	Dwg No: FIGURE 15
Drawn: AG	Verified: RHH	Project Manager: AY	

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PARAMETERS	ABBREVIATION	STANDARDS
ARSENIC	As	18

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. ALL CONCENTRATIONS IN MICROGRAMS/GRAM (µg/g) BY DRY WEIGHT BASIS
2. 'm' : METRES

LEGEND

- TEST PIT
- BOREHOLE
- SUBMITTED EXCAVATION SOIL SAMPLE
- MONITORING WELL
- EXCAVATED AREA
- SITE PROPERTY LINE
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- GREEN — GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED — RED COLOURED CONCENTRATION EXCEEDED THE MOE STANDARD

SCALE 1:750

0 15 30m

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: FINAL SOIL ANALYTICAL RESULTS (ARSENIC, ANTIMONY AND SELENIUM)	
Project No: 671835	Filename: 011F16_671835	Date: AUGUST 2021	Dwg No: FIGURE 16
Drawn: AG	Verified: RHH	Project Manager: AY	

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Figure 17: HUMAN HEALTH RECEPTOR ASSESSMENT
25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

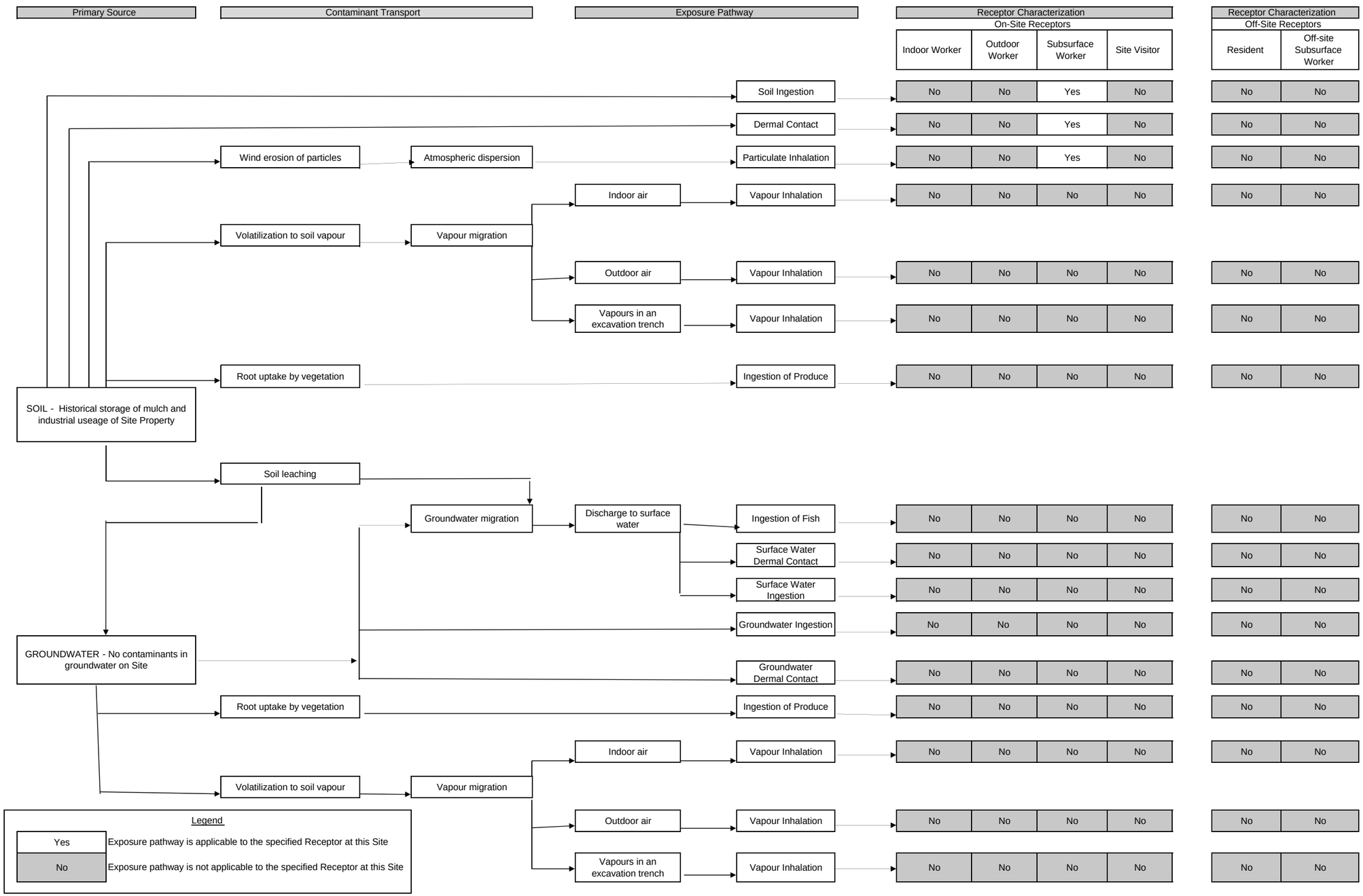
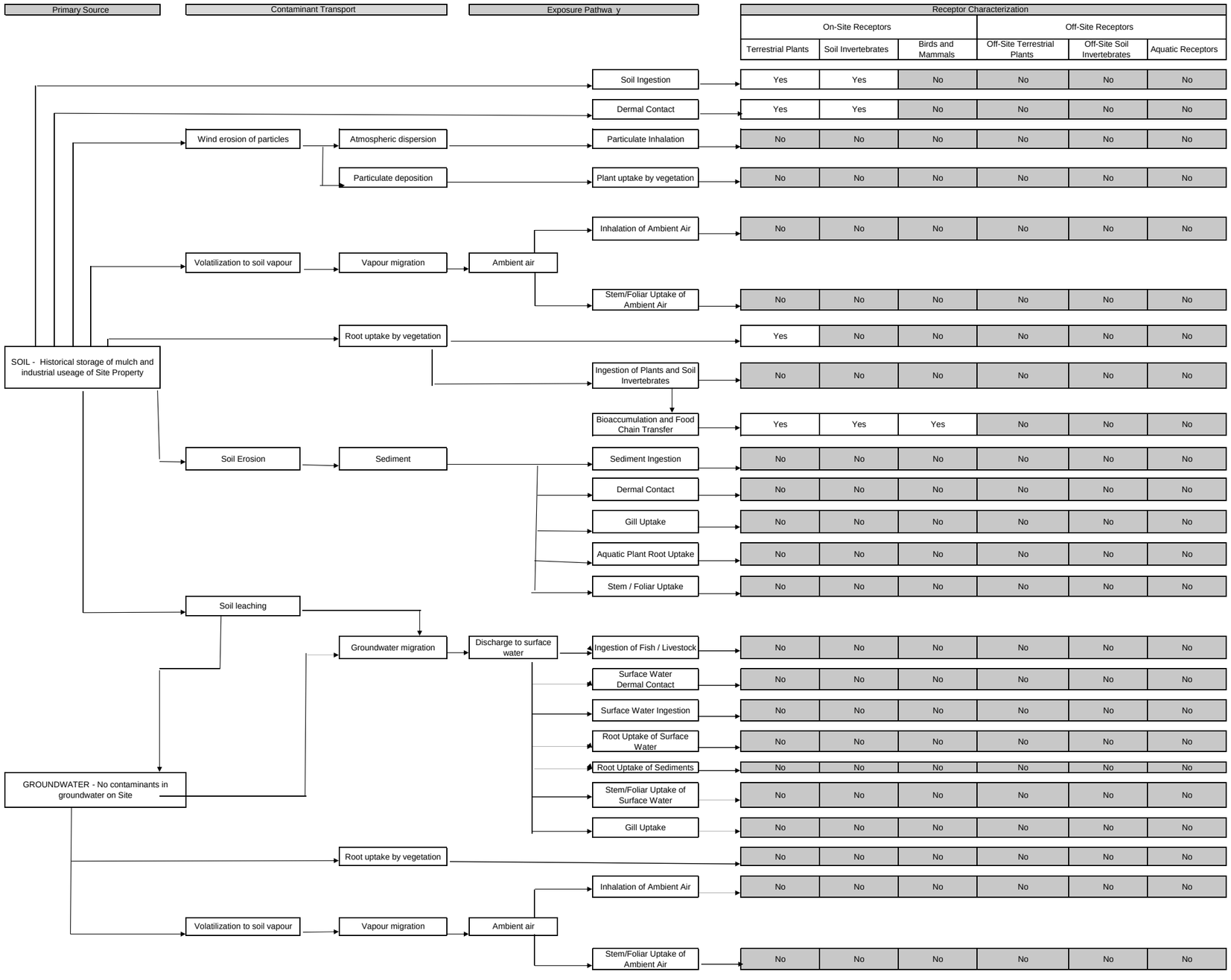


Figure 18: ECOLOGICAL RECEPTOR ASSESMENT
25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON



TABLES

TABLE 1: Groundwater Monitoring Results
25 Rutherford Road South, Brampton, ON

Monitoring Location	Top of Riser Elevation[1] (masl)	Ground Surface Elevation (masl)	Screen Interval (mbgs)	Depth to Bottom (mbgs)	Date (yyyy/mm/dd)	Well Riser Headspace Vapour Reading [2]	Groundwater Depth (mbtr)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)	
BH19-2	217.00	215.91	NM	5.20	2020-03-20	<5 ppm	2.45	1.36	214.55	
MW-101	217.00	215.96	NM	6.56	2020-03-20	<5 ppm	2.98	1.94	214.02	
MW-103	216.82	215.82	NM	6.84	2020-03-20	<5 ppm	2.96	1.96	213.86	
					2020-03-21	NM	3.26	2.26	213.56	
MW-307	217.05	215.95	5.0 - 8.1	8.94	2020-03-20	250 ppm	3.26	2.16	213.79	*
MW-312	217.00	215.90	1.5 - 4.6	5.75	2020-03-20	25 % LEL	2.79	1.69	214.21	
					2020-03-21	NM	2.98	1.88	214.02	

Footnotes:

masl - metres above sea level
mbgs - metres below ground surface
mbtr - metres below top of riser
ppm - parts per million by volume (relative to hexane)
% LEL - percent of lower explosive limit (relative to hexane)
NM - Not Measured/Monitored
* - water level above top of well screen

[1] Elevations measured relative to a site datum

[2] Organic Vapour Meter (OVM) readings

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-301	BH-301	BH-304	BH-304	BH-305	BH-305	BH-306	BH-306
Laboratory Sample ID			Standard	1131942	1131943	1131944	1131945	1131946	1131947	1131948	1131949
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-301 SS01	BH-301 SS03	BH-304 SS01	BH-304 SS02	BH-305 SS01	BH-305 SS02	BH-306 SS01	BH-306 SS02
Sampling Date (yyyy/mm/dd)				2020/03/03	2020/03/03	2020/03/10	2020/03/10	2020/03/03	2020/03/03	2020/03/03	2020/03/03
Depth Interval (mbgs)				0.0 - 0.6	1.5 - 2.1	0.0 - 0.6	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	**11.6**	8.36	8.06	7.49	**10.5**	7.94	8.42	7.35
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-
Chromium (VI)	0.2	µg/g	10	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-
Mercury	0.10	µg/g	1.8	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-306B	BH-306B	BH-306B	BH-306B	BH-309B	BH-309B	BH-311	BH-312
Laboratory Sample ID			Standard	1001560	1001561	1001562	1001563	1001554	1001556	1131950	1131951
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-306B-1	BH-306B-2	BH-306B-22	BH-306B-3	BH-309B-1	BH-309B-3	BH-311 SS03	BH-312 SS02
Sampling Date (yyyy/mm/dd)				2020/03/05	2020/03/05	2020/03/05	2020/03/05	2020/03/05	2020/03/05	2020/03/09	2020/03/09
Depth Interval (mbgs)				0.0 - 0.6	0.8 - 1.4	0.8 - 1.4 Duplicate of BH-306B	1.5 - 2.1	0.0 - 0.6	1.5 - 2.1	1.5 - 2.1	0.8 - 1.4
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	**11.4**	-	-	-	8.06	-	7.95	**9.61**
Total Metals											
Antimony	0.8	µg/g	7.5	-	<	<	<	-	<	<	<
Arsenic	1	µg/g	18	-	5	5	5	-	6	7	5
Barium	2	µg/g	390	-	98	78	121	-	77	84	97
Beryllium	0.5	µg/g	5	-	0.6	0.6	0.7	-	0.6	0.8	0.7
Boron	5	µg/g	120	-	8	9	6	-	10	11	8
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	<	<	<	-	<	<	<
Chromium (total)	5	µg/g	160	-	24	20	24	-	22	24	25
Chromium (VI)	0.2	µg/g	10	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	10.8	10.9	12.2	-	11.9	12.7	11.5
Copper	1	µg/g	180	-	24	24	22	-	29	36	28
Lead	1	µg/g	120	-	10	10	11	-	9	9	13
Mercury	0.10	µg/g	1.8	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	<	<	<	-	<	<	0.5
Nickel	1	µg/g	130	-	22	21	26	-	25	27	24
Selenium	0.4	µg/g	2.4	-	<	<	0.6	-	<	0.5	<
Silver	0.2	µg/g	25	-	<	<	<	-	<	<	<
Thallium	0.4	µg/g	1	-	<	<	<	-	<	<	<
Uranium	0.5	µg/g	23	-	0.5	0.6	0.8	-	0.8	0.9	0.6
Vanadium	1	µg/g	86	-	32	29	37	-	33	34	34
Zinc	5	µg/g	340	-	74	58	71	-	56	58	64

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-313	BH-313	BH-317	BH-317	BH-501	BH-501	BH-501	BH-501
Laboratory Sample ID			Standard	1131895	1131952	1131898	1131899	1241463	1241464	1241465	1241466
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-313 SS03	BH-313 SS01	BH-317 SS01	BH-317 SS04	BH-501-1	BH-501-2	BH-501-22	BH-501-3
Sampling Date (yyyy/mm/dd)				2020/03/06	2020/03/06	2020/03/04	2020/03/04	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				1.5 - 2.1	0.0 - 0.6	0.8 - 1.4	3.0 - 3.6	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2 Duplicate of BH-501	1.5 - 2.1
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	7.78	7.92	8.09	8.01	**10.92**	8.07	8.04	8.26
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	<	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	4	-	-	-
Barium	2	µg/g	390	-	-	-	-	53	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	0.6	-	-	-
Boron	5	µg/g	120	-	-	-	-	7	-	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	0.47	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	<	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	14	-	-	-
Chromium (VI)	0.2	µg/g	10	-	-	-	-	<	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	5.3	-	-	-
Copper	1	µg/g	180	-	-	-	-	17	-	-	-
Lead	1	µg/g	120	-	-	-	-	11	-	-	-
Mercury	0.10	µg/g	1.8	-	-	-	-	< 0.10	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	1.0	-	-	-
Nickel	1	µg/g	130	-	-	-	-	12	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	<	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	<	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	<	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	0.5	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	19	-	-	-
Zinc	5	µg/g	340	-	-	-	-	48	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-502	BH-502	BH-503	BH-503	BH-503	BH-504	BH-504	BH-504
Laboratory Sample ID			Standard	1241485	1241486	1241502	1241503	1241504	1241470	1241471	1241472
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-502-2	BH-502-3	BH-503-1	BH-503-2	BH-503-3	BH-504-1	BH-504-2	BH-504-3
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	7.73	7.86	7.57	7.61	7.65	**9.63**	7.94	7.86
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-
Chromium (VI)	0.2	µg/g	10	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-
Mercury	0.10	µg/g	1.8	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-504	BH-504	BH-505	BH-505	BH-505	BH-506	BH-506	BH-506
Laboratory Sample ID			Standard	1241473	1241493	1241469	1241467	1241468	1241505	1241506	1241507
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-504-33	BH-504-4	BH-505-1	BH-505-2	BH-505-3	BH-506-1	BH-506-2	BH-506-3
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				1.5 - 2.1	2.1 - 2.7	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1
Parameter	RDL	Units		Duplicate of BH-504							
General Chemistry											
pH[2]	-	pH	(5-9)	7.87	7.48	8.02	8.12	7.91	7.75	8.46	7.86
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	-	<	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	5	-	-
Barium	2	µg/g	390	-	-	-	-	-	139	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	0.8	-	-
Boron	5	µg/g	120	-	-	-	-	-	10	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	-	0.33	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	<	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	31	-	-
Chromium (VI)	0.2	µg/g	10	-	-	-	-	-	<	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	13.6	-	-
Copper	1	µg/g	180	-	-	-	-	-	26	-	-
Lead	1	µg/g	120	-	-	-	-	-	14	-	-
Mercury	0.10	µg/g	1.8	-	-	-	-	-	< 0.10	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	<	-	-
Nickel	1	µg/g	130	-	-	-	-	-	30	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	0.6	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	<	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	<	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	0.6	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	41	-	-
Zinc	5	µg/g	340	-	-	-	-	-	76	-	-

Footnotes:

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RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-507	BH-507	BH-507	BH-507	BH-508	BH-508	BH-508	BH-509
Laboratory Sample ID			Standard	1241498	1241499	1241500	1241501	1241482	1241483	1241484	1243156
SNC-Lavalin Sample ID			R/P/I FG NPG	BH-507-1	BH-507-2	BH-507-22	BH-507-3	BH-508-1	BH-508-2	BH-508-3	BH509-1
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				0.0 - 0.6	0.6 - 1.2	0.6 - 1.2 Duplicate of BH-507	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	7.83	6.79	7.42	7.66	**9.94**	7.31	7.65	7.99
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	<	-	-	<
Arsenic	1	µg/g	18	-	-	-	-	3	-	-	5
Barium	2	µg/g	390	-	-	-	-	36	-	-	75
Beryllium	0.5	µg/g	5	-	-	-	-	<	-	-	0.8
Boron	5	µg/g	120	-	-	-	-	<	-	-	8
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	0.31	-	-	0.37
Cadmium	0.5	µg/g	1.2	-	-	-	-	<	-	-	<
Chromium (total)	5	µg/g	160	-	-	-	-	10	-	-	22
Chromium (VI)	0.2	µg/g	10	-	-	-	-	<	-	-	<
Cobalt	0.5	µg/g	22	-	-	-	-	4.5	-	-	10.2
Copper	1	µg/g	180	-	-	-	-	17	-	-	27
Lead	1	µg/g	120	-	-	-	-	7	-	-	13
Mercury	0.10	µg/g	1.8	-	-	-	-	< 0.10	-	-	< 0.10
Molybdenum	0.5	µg/g	6.9	-	-	-	-	<	-	-	<
Nickel	1	µg/g	130	-	-	-	-	9	-	-	22
Selenium	0.4	µg/g	2.4	-	-	-	-	<	-	-	0.5
Silver	0.2	µg/g	25	-	-	-	-	<	-	-	<
Thallium	0.4	µg/g	1	-	-	-	-	<	-	-	<
Uranium	0.5	µg/g	23	-	-	-	-	<	-	-	0.7
Vanadium	1	µg/g	86	-	-	-	-	16	-	-	31
Zinc	5	µg/g	340	-	-	-	-	32	-	-	63

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
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< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-509	BH-509	BH-509	BH-509	BH-510	BH-510	BH-510	BH-510
Laboratory Sample ID			Standard	1243157	1243158	1243161	1243162	1241487	1241488	1241489	1243155
SNC-Lavalin Sample ID			R/P/I FG NPG	BH509-11	BH509-2	BH509-3	BH509-4	BH-510-1	BH-510-2	BH-510-22	BH510-3
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	2.1 - 2.7	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2	1.5 - 2.1
				Duplicate of						Duplicate of	
Parameter	**RDL**	**Units**		BH-509						BH-510	
General Chemistry											
pH[2]	-	pH	(5-9)	-	7.71	7.91	7.79	7.46	6.55	7.11	7.17
Total Metals											
Antimony	0.8	µg/g	7.5	<	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	4	-	-	-	-	-	-	-
Barium	2	µg/g	390	60	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	0.6	-	-	-	-	-	-	-
Boron	5	µg/g	120	7	-	-	-	-	-	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	0.33	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	<	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	16	-	-	-	-	-	-	-
Chromium (VI)	0.2	µg/g	10	<	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	7.1	-	-	-	-	-	-	-
Copper	1	µg/g	180	20	-	-	-	-	-	-	-
Lead	1	µg/g	120	9	-	-	-	-	-	-	-
Mercury	0.10	µg/g	1.8	< 0.10	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	<	-	-	-	-	-	-	-
Nickel	1	µg/g	130	15	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	<	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	<	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	<	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	0.5	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	23	-	-	-	-	-	-	-
Zinc	5	µg/g	340	48	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
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"-" - Not analyzed
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mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-511	BH-511	BH-511	BH-512	BH-512	BH-512	BH-513	BH-513
Laboratory Sample ID			Standard	1243169	1243184	1243186	1241479	1241480	1241481	1243163	1243166
SNC-Lavalin Sample ID			R/P/I FG NPG	BH511-1	BH-511-2	BH-511-3	BH-512-1	BH-512-2	BH-512-3	BH513-1	BH513-2
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2
Parameter	**RDL**	**Units**									
General Chemistry											
pH[2]	-	pH	(5-9)	7.51	8.02	7.65	7.64	7.42	7.72	8.09	7.51
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	<	<	-	<	-
Arsenic	1	µg/g	18	-	-	-	5	5	-	3	-
Barium	2	µg/g	390	-	-	-	113	83	-	37	-
Beryllium	0.5	µg/g	5	-	-	-	1.0	0.7	-	<	-
Boron	5	µg/g	120	-	-	-	7	7	-	5	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	0.44	0.32	-	0.34	-
Cadmium	0.5	µg/g	1.2	-	-	-	<	<	-	<	-
Chromium (total)	5	µg/g	160	-	-	-	26	21	-	12	-
Chromium (VI)	0.2	µg/g	10	-	-	-	<	<	-	<	-
Cobalt	0.5	µg/g	22	-	-	-	14.3	10.3	-	6.4	-
Copper	1	µg/g	180	-	-	-	22	25	-	20	-
Lead	1	µg/g	120	-	-	-	17	11	-	9	-
Mercury	0.10	µg/g	1.8	-	-	-	< 0.10	< 0.10	-	< 0.10	-
Molybdenum	0.5	µg/g	6.9	-	-	-	<	<	-	0.5	-
Nickel	1	µg/g	130	-	-	-	26	22	-	9	-
Selenium	0.4	µg/g	2.4	-	-	-	0.6	<	-	<	-
Silver	0.2	µg/g	25	-	-	-	<	<	-	<	-
Thallium	0.4	µg/g	1	-	-	-	<	<	-	<	-
Uranium	0.5	µg/g	23	-	-	-	0.6	0.6	-	0.5	-
Vanadium	1	µg/g	86	-	-	-	35	30	-	18	-
Zinc	5	µg/g	340	-	-	-	78	61	-	45	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 2: Soil Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH-513	BH-513	BH-514	BH-514	BH-514	BH-515	BH-515	BH-515
Laboratory Sample ID			Standard	1243167	1254384	1243187	1243188	1243189	1243190	1243191	1254400
SNC-Lavalin Sample ID			R/P/I FG NPG	BH513-22	BH-513-3	BH-514-1	BH-514-2	BH-514-3	BH-515-1	BH-515-2	BH-515-3
Sampling Date (yyyy/mm/dd)				2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30	2020/06/30
Depth Interval (mbgs)				0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	1.5 - 2.1
Parameter	**RDL**	**Units**		Duplicate of BH-513							
General Chemistry											
pH[2]	-	pH	(5-9)	7.13	7.88	**11.3**	7.69	7.83	7.39	7.44	7.68
Total Metals											
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-
Boron (Hot Water Soluble)	0.10	µg/g	1.5	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-
Chromium (VI)	0.2	µg/g	10	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-
Mercury	0.10	µg/g	1.8	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
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BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)
[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE 3: Groundwater Analytical Results - Metals and General Chemistry
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	BH19-2	BH19-2	MW-101	MW-103	MW-103	MW-307	MW-312
Laboratory Sample ID			Standard	1047004	1047005	1047003	1047006	1047007	1046998	1047001
SNC-Lavalin Sample ID			FG	BH19-2	BH19-22	MW-101	MW-103	MW-103	MW-307	MW-312
Sampling Date (yyyy/mm/dd)				2020/03/20	2020/03/20	2020/03/20	2020/03/21	2020/03/21	2020/03/20	2020/03/20
					Duplicate of BH19-2					
Parameter	**RDL**	**Units**								
General Chemistry										
Chloride	0.5	mg/L	2,300	588	526	**2,900**	-	-	183	276
Cyanide (CN-)	0.002	mg/L	0.066	<	<	<	<	-	<	<
Electrical Conductivity	2	µS/cm	na	2,350	2,180	9,720	-	-	1,410	1,970
pH	-	pH	na	7.74	7.87	7.33	-	-	8.00	7.78
Dissolved Metals										
Antimony	1.0	µg/L	20,000	2.7	2.7	<	-	-	<	<
Arsenic	1.0	µg/L	1,900	<	<	4.7	-	-	3.7	3.6
Barium	2.0	µg/L	29,000	86.2	83.7	265	-	-	102	82.6
Beryllium	0.50	µg/L	67	<	<	<	-	-	<	<
Boron	10.0	µg/L	45,000	37.0	33.1	139	-	-	2,110	858
Cadmium	0.20	µg/L	2.7	<	<	<	-	-	<	<
Chromium (Total)	2.0	µg/L	810	<	<	2.1	-	-	7.8	<
Chromium (VI)	5	µg/L	140	<	<	<	-	<	<	<
Cobalt	0.50	µg/L	66	<	<	4.17	-	-	4.41	1.06
Copper	1.0	µg/L	87	7.2	7.1	11.0	-	-	5.8	3.2
Lead	0.50	µg/L	25	<	<	3.53	-	-	2.50	<
Mercury	0.02	µg/L	2.8	<	<	<	-	<	<	<
Molybdenum	0.50	µg/L	9,200	2.77	2.88	<	-	-	4.28	19.9
Nickel	1.0	µg/L	490	1.1	1.5	29.4	-	-	5.2	4.8
Selenium	1.0	µg/L	63	<	<	<	-	-	1.5	2.0
Silver	0.20	µg/L	1.5	<	<	<	-	-	<	<
Sodium	100	µg/L	2,300,000	213,000	216,000	893,000	-	-	123,000	186,000
Thallium	0.30	µg/L	510	<	<	<	-	-	<	<
Uranium	0.50	µg/L	420	1.73	1.72	3.83	-	-	1.40	4.03
Vanadium	0.40	µg/L	250	0.74	0.62	4.12	-	-	7.69	1.36
Zinc	5.0	µg/L	1,100	27.0	21.4	15.5	-	-	12.4	<

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
µg/L - micrograms per litre
µS/cm - microSiemens per centimetre
mg/L - milligrams per litre

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for all types of property use, medium and fine textured soils (MOE, 2011)

TABLE 4: Groundwater Analytical Results - Petroleum Parameters
25 Rutherford Road South, Brampton, ON

	Sample Location		Table 3[1]	BH19-2	MW-101	MW-103	MW-312	MW-312
	Laboratory Sample ID		Standard	1047004	1047003	1047006	1047001	1047000
	SNC-Lavalin Sample ID		FG	BH19-2	MW-101	MW-103	MW-312	MW-312D
	Sampling Date (yyyy/mm/dd)			2020/03/20	2020/03/20	2020/03/20	2020/03/20	2020/03/20
Parameter	**RDL**	**Units**						Duplicate of MW-312
Volatiles								
Benzene	0.20	µg/L	430	<	<	<	<	<
Toluene	0.20	µg/L	18,000	<	<	<	<	<
Ethylbenzene	0.10	µg/L	2,300	<	<	<	<	<
Xylenes	0.20	µg/L	4,200	<	<	<	<	<
Petroleum Hydrocarbon (PHC) Fractions								
PHC F1	25	µg/L	750	<	<	<	<	<
PHC F2	100	µg/L	150	<	<	<	<	-
PHC F3	100	µg/L	500	<	<	<	<	-
PHC F4	100	µg/L	500	<	<	<	<	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
µg/L - micrograms per litre

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for all types of property use, medium and fine textured soils (MOE, 2011)

TABLE 5: Groundwater Analytical Results - PAHs
25 Rutherford Road South, Brampton, ON

			Sample Location	Table 3[1]	BH19-2	MW-101	MW-103
			Laboratory Sample ID	Standard	1047004	1047003	1047006
			SNC-Lavalin Sample ID	FG	BH19-2	MW-101	MW-103
			Sampling Date (yyyy/mm/dd)		2020/03/20	2020/03/20	2020/03/20
Parameter	**RDL**	**Units**					
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	0.20	µg/L		1,700	<	<	<
Acenaphthylene	0.20	µg/L		1.8	<	<	<
Anthracene	0.10	µg/L		2.4	<	<	<
Benzo(a)anthracene	0.20	µg/L		4.7	<	<	<
Benzo(a)pyrene	0.01	µg/L		0.81	<	<	<
Benzo(b)fluoranthene	0.10	µg/L		0.75	<	<	<
Benzo(g,h,i)perylene	0.20	µg/L		0.2	<	<	<
Benzo(k)fluoranthene	0.10	µg/L		0.4	<	<	<
Chrysene	0.10	µg/L		1	<	<	<
Dibenzo(a,h)anthracene	0.20	µg/L		0.52	<	<	<
Fluoranthene	0.20	µg/L		130	<	<	<
Fluorene	0.20	µg/L		400	<	<	<
Indeno(1,2,3-cd)pyrene	0.20	µg/L		0.2	<	<	<
Methylnaphthalene, 1- & 2-	0.20	µg/L		1,800[2]	<	<	<
Naphthalene	0.20	µg/L		6,400	<	<	<
Phenanthrene	0.10	µg/L		580	<	<	<
Pyrene	0.20	µg/L		68	<	<	<

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
µg/L - micrograms per litre

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for all types of property use, medium and fine textured soils (MOE, 2011)
[2] Standard applies to both 1- and 2- methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

TABLE 6: Field Blank QA/QC Results
Groundwater Samples
25 Rutherford Road South, Brampton, ON

			Sample Location	FIELD BLANK	TRIP BLANK
			Laboratory Sample ID	1047009	1047008
			SNC-Lavalin Sample ID	Field Blank	Trip Blank
			Sampling Date (yyyy/mm/dd)	2020/03/20	2020/03/20
Parameter	**RDL**	**Units**			
Volatiles					
Benzene	0.20	µg/L		<	<
Toluene	0.20	µg/L		<	<
Ethylbenzene	0.10	µg/L		<	<
Xylenes	0.20	µg/L		<	<
Petroleum Hydrocarbon (PHC) Fractions					
PHC F1	25	µg/L		<	<
PHC F2	100	µg/L		<	-
PHC F3	100	µg/L		<	-
PHC F4	100	µg/L		<	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
µg/L - micrograms per litre

TABLE 7: Field Duplicate QAQC Results
Groundwater Samples
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	BH19-2	BH19-2	RPD	MW-312	MW-312	RPD
Laboratory Sample ID			1047004	1047005		1047001	1047000	
SNC-Lavalin Sample ID		Limit	BH19-2	BH19-22		MW-312	MW-312D	
Sampling Date (yyyy/mm/dd)			2020/03/20	2020/03/20		2020/03/20	2020/03/20	
				Duplicate of			Duplicate of	
Parameter	**Units**			BH19-2			MW-312	
General Chemistry								
Chloride	mg/L	40%	588	526	11%	276	-	-
Cyanide (CN-)	mg/L	40%	< 0.002	< 0.002	*	< 0.002	-	-
Electrical Conductivity	µS/cm	20%	2,350	2,180	8%	1,970	-	-
pH	pH	0.6 [2]	7.74	7.87	*	7.78	-	-
Dissolved Metals								
Antimony	µg/L	40%	2.7	2.7	*	< 1.0	-	-
Arsenic	µg/L	40%	< 1.0	< 1.0	*	3.6	-	-
Barium	µg/L	40%	86.2	83.7	3%	82.6	-	-
Beryllium	µg/L	40%	< 0.50	< 0.50	*	< 0.50	-	-
Boron	µg/L	40%	37	33.1	*	858	-	-
Cadmium	µg/L	40%	< 0.20	< 0.20	*	< 0.20	-	-
Chromium (Total)	µg/L	40%	< 2.0	< 2.0	*	< 2.0	-	-
Chromium (VI)	µg/L	40%	< 5	< 5	*	< 5	-	-
Cobalt	µg/L	40%	< 0.50	< 0.50	*	1.06	-	-
Copper	µg/L	40%	7.2	7.1	1%	3.2	-	-
Lead	µg/L	40%	< 0.50	< 0.50	*	< 0.50	-	-
Mercury	µg/L	40%	< 0.02	< 0.02	*	< 0.02	-	-
Molybdenum	µg/L	40%	2.77	2.88	4%	19.9	-	-
Nickel	µg/L	40%	1.1	1.5	*	4.8	-	-
Selenium	µg/L	40%	< 1.0	< 1.0	*	2	-	-
Silver	µg/L	40%	< 0.20	< 0.20	*	< 0.20	-	-
Sodium	µg/L	40%	213,000	216,000	1%	186,000	-	-
Thallium	µg/L	40%	< 0.30	< 0.30	*	< 0.30	-	-
Uranium	µg/L	40%	1.73	1.72	*	4.03	-	-
Vanadium	µg/L	40%	0.74	0.62	*	1.36	-	-
Zinc	µg/L	40%	27	21.4	*	< 5.0	-	-
Volatiles								
Benzene	µg/L	60%	< 0.20	-	-	< 0.20	< 0.20	*
Toluene	µg/L	60%	< 0.20	-	-	< 0.20	< 0.20	*
Ethylbenzene	µg/L	60%	< 0.10	-	-	< 0.10	< 0.10	*
Xylenes	µg/L	60%	< 0.20	-	-	< 0.20	< 0.20	*
Petroleum Hydrocarbon (PHC) Fractions								
PHC F1	µg/L	60%	< 25	-	-	< 25	< 25	*

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
RPD - Relative Percent Difference (not calculated when one or both results are less than or equal to 5X RDL)
µg/L – micrograms per litre
µS/cm - microSiemens per centimetre
mg/L - milligrams per litre
* - RPD not calculable

BOLD RPD exceeds limit

[1] RPD limits provided in the CCME 2016 guidance were applied.
[2] CCME performance criteria for pH is for lab duplicates to be within 0.3 units, therefore, a performance criteria of 0.6 pH units has been applied to field duplicates following CCME (2016) guidance.

TABLE 8: Field Duplicate QAQC Results
Soil Samples
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	BH-306B	BH-306B	RPD	BH-501	BH-501	RPD	BH-504	BH-504	RPD
Laboratory Sample ID			1001561	1001562		1241464	1241465		1241472	1241473	
SNC-Lavalin Sample ID		Limit	BH-306B-2	BH-306B-22		BH-501-2	BH-501-22		BH-504-3	BH-504-33	
Sampling Date (yyyy/mm/dd)			2020/03/05	2020/03/05		2020/06/30	2020/06/30		2020/06/30	2020/06/30	
Sampling Date (yyyy/mm/dd)			0.8 - 1.4	0.8 - 1.4		0.6 - 1.2	0.6 - 1.2		1.5 - 2.1	1.5 - 2.1	
Depth Interval (mbgs)			<5	<5		<5	<5		<5	<5	
				Duplicate of			Duplicate of			Duplicate of	
Parameter	**Units**			BH-306B-2			BH-501-2			BH-504-3	
General Chemistry											
pH	pH	0.6 [2]	-	-	-	8.07	8.04	*	7.86	7.87	*
Total Metals											
Antimony	µg/g	60%	< 0.8	< 0.8	*	-	-	-	-	-	-
Arsenic	µg/g	60%	5	5	0%	-	-	-	-	-	-
Barium	µg/g	80%	98	78	23%	-	-	-	-	-	-
Beryllium	µg/g	60%	0.6	0.6	*	-	-	-	-	-	-
Boron	µg/g	60%	8	9	*	-	-	-	-	-	-
Boron (Hot Water Soluble)	µg/g	80%	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	60%	< 0.5	< 0.5	*	-	-	-	-	-	-
Chromium (total)	µg/g	70%	24	20	*	-	-	-	-	-	-
Chromium (VI)	µg/g	70%	-	-	-	-	-	-	-	-	-
Cobalt	µg/g	60%	10.8	10.9	1%	-	-	-	-	-	-
Copper	µg/g	60%	24	24	0%	-	-	-	-	-	-
Lead	µg/g	80%	10	10	0%	-	-	-	-	-	-
Mercury	µg/g	80%	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	80%	< 0.5	< 0.5	*	-	-	-	-	-	-
Nickel	µg/g	60%	22	21	5%	-	-	-	-	-	-
Selenium	µg/g	60%	< 0.4	< 0.4	*	-	-	-	-	-	-
Silver	µg/g	80%	< 0.2	< 0.2	*	-	-	-	-	-	-
Thallium	µg/g	60%	< 0.4	< 0.4	*	-	-	-	-	-	-
Uranium	µg/g	60%	0.5	0.6	*	-	-	-	-	-	-
Vanadium	µg/g	60%	32	29	10%	-	-	-	-	-	-
Zinc	µg/g	60%	74	58	24%	-	-	-	-	-	-

See footnotes on last page.

TABLE 8: Field Duplicate QAQC Results
Soil Samples
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	BH-507	BH-507	RPD	BH-509	BH-509	RPD	BH-510	BH-510	RPD
Laboratory Sample ID			1241499	1241500		1243156	1243157		1241488	1241489	
SNC-Lavalin Sample ID		Limit	BH-507-2	BH-507-22		BH509-1	BH509-11		BH-510-2	BH-510-22	
Sampling Date (yyyy/mm/dd)			2020/06/30	2020/06/30		2020/06/30	2020/06/30		2020/06/30	2020/06/30	
Sampling Date (yyyy/mm/dd)			0.6 - 1.2	0.6 - 1.2		0.0 - 0.6	0.0 - 0.6		0.6 - 1.2	0.6 - 1.2	
Depth Interval (mbgs)			<5	<5		<5	<5		<5	<5	
Parameter	Units			Duplicate of BH-507-2			Duplicate of BH509-1			Duplicate of BH-510-2	
General Chemistry											
pH	pH	0.6 [2]	6.79	7.42	*	7.99	-	-	6.55	7.11	*
Total Metals											
Antimony	µg/g	60%	-	-	-	< 0.8	< 0.8	*	-	-	-
Arsenic	µg/g	60%	-	-	-	5	4	*	-	-	-
Barium	µg/g	80%	-	-	-	75	60	22%	-	-	-
Beryllium	µg/g	60%	-	-	-	0.8	0.6	*	-	-	-
Boron	µg/g	60%	-	-	-	8	7	*	-	-	-
Boron (Hot Water Soluble)	µg/g	80%	-	-	-	0.37	0.33	*	-	-	-
Cadmium	µg/g	60%	-	-	-	< 0.5	< 0.5	*	-	-	-
Chromium (total)	µg/g	70%	-	-	-	22	16	*	-	-	-
Chromium (VI)	µg/g	70%	-	-	-	< 0.2	< 0.2	*	-	-	-
Cobalt	µg/g	60%	-	-	-	10.2	7.1	36%	-	-	-
Copper	µg/g	60%	-	-	-	27	20	30%	-	-	-
Lead	µg/g	80%	-	-	-	13	9	36%	-	-	-
Mercury	µg/g	80%	-	-	-	< 0.10	< 0.10	*	-	-	-
Molybdenum	µg/g	80%	-	-	-	< 0.5	< 0.5	*	-	-	-
Nickel	µg/g	60%	-	-	-	22	15	38%	-	-	-
Selenium	µg/g	60%	-	-	-	0.5	< 0.4	*	-	-	-
Silver	µg/g	80%	-	-	-	< 0.2	< 0.2	*	-	-	-
Thallium	µg/g	60%	-	-	-	< 0.4	< 0.4	*	-	-	-
Uranium	µg/g	60%	-	-	-	0.7	0.5	*	-	-	-
Vanadium	µg/g	60%	-	-	-	31	23	30%	-	-	-
Zinc	µg/g	60%	-	-	-	63	48	27%	-	-	-

See footnotes on last page.

TABLE 8: Field Duplicate QAQC Results
Soil Samples
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	BH-513	BH-513	RPD
Laboratory Sample ID			1243166	1243167	
SNC-Lavalin Sample ID		Limit	BH513-2	BH513-22	
Sampling Date (yyyy/mm/dd)			2020/06/30	2020/06/30	
Sampling Date (yyyy/mm/dd)			0.6 - 1.2	0.6 - 1.2	
Depth Interval (mbgs)			<5	<5	
				Duplicate of	
Parameter	**Units**			BH513-2	
General Chemistry					
pH	pH	0.6 [2]	7.51	7.13	*
Total Metals					
Antimony	µg/g	60%	-	-	-
Arsenic	µg/g	60%	-	-	-
Barium	µg/g	80%	-	-	-
Beryllium	µg/g	60%	-	-	-
Boron	µg/g	60%	-	-	-
Boron (Hot Water Soluble)	µg/g	80%	-	-	-
Cadmium	µg/g	60%	-	-	-
Chromium (total)	µg/g	70%	-	-	-
Chromium (VI)	µg/g	70%	-	-	-
Cobalt	µg/g	60%	-	-	-
Copper	µg/g	60%	-	-	-
Lead	µg/g	80%	-	-	-
Mercury	µg/g	80%	-	-	-
Molybdenum	µg/g	80%	-	-	-
Nickel	µg/g	60%	-	-	-
Selenium	µg/g	60%	-	-	-
Silver	µg/g	80%	-	-	-
Thallium	µg/g	60%	-	-	-
Uranium	µg/g	60%	-	-	-
Vanadium	µg/g	60%	-	-	-
Zinc	µg/g	60%	-	-	-

See footnotes on last page.

TABLE 8: Field Duplicate QAQC Results
Soil Samples
25 Rutherford Road South, Brampton, ON

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
RPD - Relative Percent Difference (not calculated when one or both results are less than or equal to 5X RDL)
mbgs - metres below ground surface
Field Screen - organic vapour meter reading
Conversion factor of 1% LEL = 110 ppmv applied
ppmv - parts per million by volume (relative to hexane)
µg/g - micrograms per gram, dry weight basis
* - RPD not calculable

BOLD RPD exceeds limit

[1] RPD limits provided in the CCME 2016 guidance were applied.
[3] CCME performance criteria for pH is for lab duplicates to be within 0.3 units, therefore, a performance criteria of 0.6 pH units has been applied to field duplicates following CCME (2016) guidanc

APPENDIX A

Sampling and Analysis Plan

Sampling and Analysis Plan

25 Rutherford Road South, Brampton, ON
City of Brampton

671835

SNC-Lavalin Inc.

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1 Background Information

The Environment & Geoscience business division of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase Two Environmental Site Assessment (ESA) on portion of the property located at 25 Rutherford Road South in Brampton, Ontario that has been proposed for redevelopment. The City owns the remainder of the property having the same municipal address of 25 Rutherford Road South, which is triangular in shape (approximately 0.95 hectares [ha] in size; identified as the "City's Property"). The northeast portion of the City's Property, trapezoid in shape (approximately 0.4 ha in size) and herein, is referred to as the "Phase Two Property" or the "Site". The Phase Two Property is the portion subject to redevelopment.

This Phase Two ESA will be completed in support of filing a record of Site condition (RSC) for institutional land use. Field work activities were completed between March and June 2020. The Phase Two ESA will be conducted based on Ontario Regulation (O.Reg.) 153/04, as amended (MOE, 2011). The Phase Two ESA work program will be based on areas of potential environmental concern (APEC) and the Phase One conceptual site model (CSM) developed in the Phase One ESA completed in August 2021 (SNC Lavalin, 2021).

1.1 Property Ownership

Site Owner	City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2
Person Requesting Phase Two ESA	Ms. Reshma Fazlullah Project Coordinator Building Design and Construction City of Brampton 2 Wellington Street West City Hall – West Tower, 8th Floor Brampton, Ontario L6Y 4R2 Telephone: 416-845-4237

1.2 Background

The topography at the Site is generally flat with a slight slope towards the south. The Site elevation is approximately 215 m above mean sea level (amsl). The nearest surface water body is an unnamed tributary of Spring Creek located approximately 35 m south of the site, and eventually discharging to Lake Ontario.

The Site is currently vacant and consists of a paved area in the northeast portion of the Site with a gate to access the Site from Rutherford Road. The north boundary of the Site is bounded by a chain-link fence, which also extends on the north to south orientation in the east portion of the Site. An inactive wooden guard shed with no door, is located in the central portion of the Site adjacent to the north boundary of the Site.

First developed use of the Phase Two Property was between 1954 and 1963. A number of environmental investigations were completed at the Site since 2018. Based on information obtained from aerial photographs and interviews, the Site has been used for industrial use. The City's Property had been previously occupied by a building with various business tenants including cardboard container and mattresses manufacturers, autobody and glass replacement shops, bulk storage of paints and other commercial businesses and offices. Following the demolishing of the building circa 2009, the City used the property as a storage yard for mulch and raw lumber.

Current surrounding land use in the immediate vicinity of the Site is industrial/commercial and vacant land. The property at 19 Rutherford Road South located immediately north of the Site has been under industrial use since the late 1960s and currently occupied by Super-Fast Trucklines, NAPA Auto Parts and Signage & Lighting Systems and a community training centre. Vacant land including the remainder of the City's Property having the same municipal address with an unnamed creek beyond (25 Rutherford Road South), is located south and west of the Site. The property at 32 Rutherford Road South is located east of the site and is listed as a industrial/commercial property since 1981 and is currently an auto repair centre occupied by Rush Lube & Truck Wash, 1 Stop Auto Repair Centre and Auto Crew Sales.

1.3 Past Investigations

A Phase One ESA and a Phase Two ESA documenting environmental investigations were completed at the City's Property in 2018 (G2S, 2018 a and b). A Supplemental Phase Two ESA investigation was also completed at the City's Property in 2019 (Wood, 2019). The findings from these reports are summarized below.

Phase I ESA (G2S, 2018a)

- The City's Property (25 Rutherford Road South) was developed as a storage yard and used by the City of Brampton during the time of the investigation. No permanent buildings were located on the City's Property, including the Phase Two Property, and with the following identified:
  - The lot was developed with paved areas along the east property boundary and the remainder of the property was covered by dirt or gravel.
  - Three concrete storage areas, containing raw lumber and mulch, were located in the centre of the property.
  - A guardhouse was located along the central north property boundary.
  - Skids of bricks were located in the northeast portion of the property.

- A maintenance hut was located on the northwest corner of City's Property (i.e. adjacent west of the Site), containing 3 jerry cans.
- Sea can containers for storage were located on the northwest and southeast corners of the City's Property (i.e. adjacent west and adjacent east of the Site).

- APEC potentially affecting soil and groundwater on the property include:
  - Historical industrial use of the property by Kirk Containers Ltd. for carboard manufacturing in 1971, and Kustom Airworks for use and bulk storage of paints in 2006 (on-site; entire property)
  - Historical industrial use of the north adjacent property (19 Rutherford Road South) by Canada Ferro Co Ltd. for automobile parts manufacturing from 1967 to 1981, and for sign manufacturing by Signage and Lighting Systems Inc. from 2006 to 2008 (Northern Portion of the property)
- It was recommended that further investigations be completed to investigate potential environmental impacts in soil and groundwater from the identified APECs.

Phase II ESA (G2S, 2018b)

- A total of twelve boreholes (BH101 to BH107 and BH201 to BH205) were advanced on the City's Property with five of these boreholes (BH101 to BH105) installed as groundwater monitoring wells (MW101 to MW105). Six of these boreholes and monitoring wells (BH101/MW101, BH102/MW102, BH103/MW103, BH106, BH202 and BH203) were advanced to depths between 2.10 and 5.92 m bgs on the Phase Two Property.
- Stratigraphy was noted in the boreholes located on the Phase Two Property consists of fill material to a depth of approximately 1.2 m underlain by clayey silt to depths ranging between 2.4 and 3.6 m bgs underlain by bedrock to the maximum depth of investigation of 5.9 m bgs. Grain size analysis from the native material indicated predominant soil type was medium-fine textured.
- The depth to water noted in the monitoring wells located on the Phase Two Property (MW101, MW102 and MW103) were between 2.22 m and 4.55 m bgs.
- Concentrations of metals in the soil sample collected from BH102 at a depth of 0.0 and 1.2 m bgs exceeded the MECP Table 9 Site Condition Standards (SCS) for All Types of Property Use within 30 m of a Water Body, in Non-potable Groundwater Conditions.
- Concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbons fractions F1 to F4 (PHCs F1 to F4), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) in the remaining analysed soil samples were below the MECP Table 9 SCS.
- Concentrations of BTEX, PHCs F1 to F4, VOCs, metals, and PAHs in analysed groundwater samples met the MECP Table 9 SCS.
- It was concluded that results of the investigation did not meet MECP Table 9 SCS and a remediation or risk assessment would be required to address the metal soil impacts in order to file for a Record of Site Condition (RSC).

Supplemental Phase II ESA (Wood, 2019)

- Three (3) boreholes (BH19-1 to BH19-3) were advanced on the City's Property and all of which were instrumented as groundwater monitoring wells. In addition, eight test pits (TP19-1 to TP19-8) were excavated on the City's Property. One monitoring well (BH19-2) and three test pits (TP19-2, TP19-4 and TP19-8) were located on the Phase Two Property. Borehole.

- Soil and groundwater results from boreholes, test pits, and monitoring wells within 30 m of the creek located adjacent south of the property was compared to the MECP Tables 8 and 9 SCS for Use within 30 m of a Water Body in a Potable Groundwater Condition, Residential/Parkland/Institutional/ Industrial/Commercial/Community property use.
- Soil and groundwater results boreholes, test pits, and monitoring wells beyond 30 m of the creek located adjacent south of the property was compared to the MECP Table 3 SCS, non-potable groundwater condition, Residential/Parkland/Institutional property use, medium to fine textured soils.
- Stratigraphy from observations in borehole BH19-2 on the Phase Two Property was noted to be sand and silt fill material to a depth of approximately 0.6 m bgs underlain by sand and gravel fill to a depth of approximately 1.4 m bgs, underlain by sandy silt to 2.2 m bgs underlain by sand and gravel to the maximum depth of investigation of 4.4 m bgs. A grain size sample collected from test pit TP19-2 at a depth of 0.3 to 0.7 m bgs was noted to be coarse textured, however, grain size analysis from the native material across the City's Property indicated predominant soil type is medium-fine textured.
- Based on results from September 15, 2019, shallow horizontal groundwater flow direction on the Phase Two Property was towards the south to southeast direction.
- Results of this investigation identified soil and groundwater impacts on the Phase Two Property:
  - Elevated EC values above Table 2 and 3 SCS identified in soil sample collected at a depth from surface to 0.7 m bgs in test pit TP19-8, located by the north property boundary.
  - Groundwater with sodium and chloride concentrations above the Table 2 and 3 SCS was identified in monitoring well MW101.
  - Groundwater with elevated antimony concentrations above the Table 2 SCS was identified at monitoring well BH19-2 located along the north property boundary.
- The pH of soil samples collected at the Site were generally within the range of 5 to 9 for surface soil samples (0 to 1.5 m bgs) and within the range of 5 to 11 for subsurface samples (>1.5 m bgs) with the exception of the sample collected at 0.1 to 0.7 m bgs from test pit TP19-2 (pH of value 10.8) and the sample collected at 0.7 m bgs from test pit TP19-8 (pH value of 11.7).
- The estimated amount of soil impacted with metals on the City's Property was estimated to approximately 300 m^3 (600 tonnes) with a portion of which is located on the Phase Two Property.

Results of historical investigations completed were reviewed in the Phase One ESA and used to help scope this Phase Two ESA. The current investigations were designed to collect updated information in areas of historical contamination.

1.4 Scope of Investigation

The City is planning to develop the Site as a Fire Hall, and as per the City's planning and development requirements, such development will constitute a change of the land use from its current classification of industrial/commercial/community Property use to more sensitive use (i.e. Residential/Parkland/ Institutional Property use along with a filing of a Record of Site Condition (RSC) as per Ontario Regulation (O. Reg.) 153/04 as amended.

The Phase Two ESA was completed in support of filing an RSC. Investigative field work activities were completed between March and June 2020. The Phase Two ESA will be conducted in accordance with O. Reg. 153/04 and the applicable site condition standards were as follows:

- MECP Table 3 full depth generic site condition standards (MECP Table 3 SCSs) for residential/parkland/institutional property use in medium and fine textured soils in a non-potable groundwater condition, were selected for comparison with measured soil and groundwater concentrations (MOE, 2011). Concurrences from the City and the Regional municipality of Peel (Region) have been obtained to use the selected non-potable MECP Table 3 SCSs (responses from the City and the Region dated May 5, 2020 and April 2020, respectively).

1.5 Areas of Potential Concern

On-Site and off-Site Based on following APECs and contaminants of potential concern:

Area of potential environmental concern [1]	Location of area of potential environmental concern on	Potentially contaminating activity [2]	Location of PCA (on-site or off-site)	Contaminants of potential concern [3]	Media potentially Impacted (Ground water, soil
1	General Site area	PCA Item 10 - Commercial Autobody Shops	On-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Soil and Ground Water
2	General Site area	PCA Item 30 - Importation of Fill Material of Unknown Quality		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
3	General Site area	PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
4	General Site area	PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	

5	General Site area	PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
6	General Site area	PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
7	Southwestern and southern area of Site	PCA Item 10 - Commercial Autobody Shops	Off-site	BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	Soil and Ground Water
		PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 45 - Pulp, Paper and Paperboard Manufacturing and Processing		VOCs and pH	
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	

8	North boundary of Site	PCA Item 19 - Electronic and Computer Equipment Manufacturing	Off-site	Metals including As, Sb, Se, Cr (VI), Hg, B-HWS, pH	Soil and Ground Water
		PCA Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 39 - Paints Manufacturing, Processing and Bulk Storage		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI), Hg, B-HWS	
		PCA Item 48 - Salt Manufacturing, Processing and Bulk Storage		Electrical Conductivity, Na, SAR, Cl-	
		PCA Item 57 - Vehicles and Associated Parts Manufacturing		BTEX, PHC F1-F4, VOCs, PAHs and Metals including As, Sb, Se, Cr (VI),	
		PCA Item NA - Documented spill of diesel to a catch		BTEX, PHC F1-F4, PAHs	

2 Investigation Method

2.1 Standard Operating Procedures

The Phase Two ESA program will be completed by SNC-Lavalin field staff using field and laboratory analysis protocols based on O. Reg. 153/04, “Guide for Completing Phase Two Environmental Site Assessment Under O. Reg. 153/04” (MOE, 2011), preferred operating procedures (POPs) described in the SNC-Lavalin

Field Work Guidance Manual (SNC-Lavalin, 2019) and a quality assurance/quality control (QA/QC) program described herein.

A site-specific health and safety program will be implemented during all work at the Site in compliance with regulatory requirements, as well as SNC-Lavalin programs and policies.

Prior to conducting intrusive work, public utilities in the planned work area will be identified/cleared by various public utility companies and a private utility locating service, will mark and clear all private utilities and to confirm the locations of public utilities.

Drilling locations will be finalized based on the location of infrastructure and utilities.

2.2 Drilling and Well Installation

Boreholes will be advanced using a track mounted B57 equipped with 100 mm outside diameter (O.D.) solid stem augers and split spoon samplers. The boreholes are to be advanced to depths ranging from 2.9 to 9.3 m bgs. Split spoon samplers shall be cleaned with soap and water between successive samples.

Soil auger cuttings generated during the drilling program shall be temporarily stored on-Site in 205 L metal drums and subsequently disposed off-site at a licensed facility, in accordance with O. Reg. 347 (as amended).

Purged ground water generated during well development and sampling was placed in 205 L plastic drums, and temporarily stored on-site and subsequently disposed off-site, at a licensed facility, in accordance with O. Reg. 347 (as amended).

Two (2) monitoring wells (BH-307 and BH-312) shall be constructed using 5.1 cm diameter flush threaded PVC piping and installed with 3 m long screens. BH-307, shall be installed at a depth of 8.1 m bgs to represent deeper ground water conditions, and BH-312 shall be installed at a depth of 4.6 m bgs. Both wells shall be completed with solid risers with a height of 1.10 m above ground surface. A clean silica sand pack will be placed around each screen and isolated with hydrated bentonite to slightly below grade. The wells shall be completed with above grade protective steel casings set in concrete and capped with clean j-plugs.

To minimize the potential for cross-contamination during well installation, well supplies (including, screen, riser and dedicated LDPE tubing) shall be removed from protective packaging only immediately prior to use. Handling was done by workers wearing a new pair of disposable vinyl gloves per well and by avoiding contact with potentially contaminating materials.

As per O. Reg. 903, as amended, monitoring wells completed as part of this investigation shall be registered with MECP.

Following installation, newly installed monitoring wells, the wells shall be developed by purging approximately three (3) borehole volumes of water (calculated as the volume of standing water plus the volume of water in the sand pack surrounding the well screen). The ground water monitoring wells will be equipped with dedicated low-density polyethylene (LDPE) tubing and inertial foot valves. The monitoring wells shall be developed by manually moving the inertial foot valve from the top of the screened area to the bottom to ensure development of the whole screen, occasionally agitating the bottom of the well to stir up and remove any sediment built up. To assess the progress of well development, pH, conductivity and temperature readings will be measured using a Hanna Instruments HI

991300 meter (Hanna meter) or equivalent calibrated by Maxim Environmental and Safety Inc. or in the field by SNC-Lavalin personnel. Well development is considered to be complete when readings stabilized (within 10%) and the purge water was visually free from silt.

The date of the well development, the time, the purged ground water volume and the field parameter measurements shall be recorded in the field log.

2.3 Ground Water: Monitoring and Sampling

Prior to ground water sampling, headspace vapour readings in each monitoring should be measured upon removal of the well cap with an OVM operated in methane elimination mode. The OVM should be calibrated in the field to hexane standards by SNC-Lavalin personnel. Water levels in the monitoring wells should be measured relative to the top of riser pipe using a Heron Instruments H.OIL Interface probe. Ground water monitoring should be conducted after well development is completed, and after water levels had at least 24 hours to stabilize. Wells should be examined for the presence of non-aqueous phase liquid (NAPL) using the interface probe. Prior to use in each well, the interface probe should be washed using Alconox® soap and rinsed with distilled water to minimize the potential for cross-contamination.

Ground water sampling should be completed at two (2) newly-installed monitoring wells and three (3) existing monitoring wells (MW101, MW103 and MW19-2) on the Phase Two Property between March 20 and 21, 2020.

Handling for ground water sampling was done by workers wearing a new pair of disposable nitrile gloves per well and by avoiding contact with potentially contaminating materials. Ground water sampling was collected using dedicated LDPE tubing and an inertial foot valve installed in each well. Prior to sampling, the standing water in the well should be calculated and, where possible, at least three well volumes should be purged or when the well has gone dry and is allowed to recover prior to sampling. To assess the progress of purged ground water should be collected in a container and a Hanna meter used to measure pH, conductivity and temperature. Purged ground water generated during well sampling should be placed/stored in 205 L plastic drums.

Samples for metals analysis will be field filtered with dedicated inline 0.45 µm filters.

Samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers.

2.4 Elevation Survey

The ground surface elevations shall be surveyed by SNC-Lavalin personnel, using a Trimble RX 5800 high precision unit, with elevations relative to geodetic datum above mean sea level (amsl).

2.5 Physical Impediments

There are no physical impediments that may interfere with sampling on Site.

3 Sampling Analysis Plans

To address the APECs as listed above, SNC Lavalin (SNC) had planned a soil and groundwater investigation to further investigate the findings from previous consultants as listen in Section 1.3.

3.1 Initial Soil Investigation

In early spring of 2020, SNC plans to supervise the installation of four (4) boreholes (BH-306B, BH-307, BH-309B and BH-312). The boreholes shall be advanced to depths ranging from 2.9 to 9.3 m bgs and sampled for metals and pH, to depth. These samples are to be screened and logged as per standard practice. The purpose of these samples is to laterally delineate elevated levels of pH and/or metals contamination. Metals contamination in surface soil are considered likely to be the result of previous activities at the Site, but based on available information, could not be associated with a specific activity. Elevated pH levels is likely a result of historical mulch storage on the Site.

3.2 Supplemental Soil Sample Submission for pH

After receiving results from the initial soil sampling, samples collected during the geotechnical investigation, were submitted for environmental analysis. Eight (8) boreholes (BH-301, BH-304, BH-305, BH-306, BH-311, BH-312, BH-313 and BH-317) were sampled for pH between March 3 and 13, 2020 by the SNC geotechnical group. The boreholes were advanced to depths ranging from 9.1 to 9.3 m bgs. Samples submitted from this sampling event, were analyzed past the recommended hold time. Analytical results from these samples were used to estimate remedial excavation extents, and are not intended to be included in the conceptual site model (CSM) as per O. Reg 153/04. The boreholes were sampled at the depths listed in the following Table:

Borehole ID	Depths (m)
BH-301	0 - 0.6
	1.5 - 2.1
BH-304	0 - 0.6
	0.8- 1.4
	1.5 - 2.1
BH-305	0 - 0.6
	0.8-1.4
BH-306	0 - 0.6
	0.8-1.4
BH-311	1.5 - 2.1
BH-312	0.8-1.4
	1.5 - 2.1
BH-313	0 - 0.6
	1.5 - 2.1
BH-317	0 - 0.6
	1.5 - 2.1

3.3 Supplemental Soil Investigation

A supplement drilling program shall be completed in the summer of 2020, involving advancing fifteen (15) shallow boreholes (BH-501 to BH-515), to depths ranging from 2.1 to 2.7. The intended purpose of this investigation is to delineate the elevated levels of pH and metals that were discovered during the spring 2020 event and the subsequent pH samples from the geotechnical investigation. The prescribed sampling plan for pH, is depicted in the proceeding Figure A.1.

3.4 Ground Water Investigation

Ground water sampling shall be completed between March 20 and 21, 2020 at two (2) newly-installed monitoring wells (BH-307 and BH-312) and three (3) existing monitoring wells (MW101, MW103 and MW19-2) that pre-dated the current Phase Two ESA and were retained for on-going ground water monitoring and sampling.

The exceedance of cyanide found in MW19-2, will be sampled two more times to confirm presence of the exceedance found during previous investigations in September 2019, as per O. Reg. 153/04.

4 Quality Assurance and Quality Control Measures

A quality assurance/quality control (QA/QC) program will be implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis. As part of the QA/QC program, sampling protocols included minimizing sample handling; submitting field QA/QC samples; using dedicated sampling equipment; using sample specific identification and labelling procedures; and using chain of custody records.

4.1 Data Quality Objectives

The data collected during this project are to be of sufficient quality and certainty to achieve the following data quality objectives (DQO):

- Overall project objectives are met; and
- Conclusions and actions from this work are sound and defensible.

If these DQO are not met, the origin and cause of deviations must be determined. Additional sampling and analysis may then be required to achieve DQOs.

4.2 Sample Containers, Preservation, Labelling and Handling

Soil samples submitted for laboratory analysis will be collected in the field following protocols designed to minimize potential for cross-contamination. A new pair of nitrile gloves will be donned by SNC field staff between each soil and ground water sample location and when handling dedicated supplies.

Soil samples collected for metals and inorganics will be collected directly in wide mouthed clear glass jars with Teflon lined lids. Soil samples for analysis will be placed in coolers with ice and delivered directly to AGAT Labs by SNC-Lavalin personnel or shipped to ALS Laboratory by courier.

Ground water samples submitted for laboratory analysis will be collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers.

Ground water samples for laboratory analysis of BTEX, PHC F1 and/or VOCs will be collected (with zero headspace) directly in 40 mL clear glass vials equipped with Teflon lined septum caps and containing sodium bisulphate ($NaHSO_4$) preservative. Ground water samples for analysis of PHC F2 to F4 will be collected in amber glass bottles containing $NaHSO_4$ preservative. Ground water samples for analysis of PAHs will be collected in amber glass bottles without preservative or analysed from the same sample glass bottle as the PHC F2 to F4 analysis. Ground water samples for analysis of dissolved metals will be field filtered using dedicated 0.45 micron in line filters and collected in high density polyethylene (HDPE) plastic bottles containing nitric acid (HNO_3) preservative.

Soil samples will be selected for laboratory analysis based on OVM readings, visual evidence of impact or based on the depth the sample is collected (e.g. for vertical delineation). Approximately two (2) soil samples will be collected for each, respectfully. Soil samples selected for analysis were submitted to AGAT Labs for analysis of metals and/or pH. One sample representative of soil encountered during the investigation will be analysed for grain size.

A consistent approach to identifying samples will be applied to ensure proper identification of each sample, validity of analytical results and continuity between multiple series of site investigations. The approach for soil sample labelling will be to use a three (3) component sample name:

1. sample prefix (i.e. BH, EX);

2. location number (i.e. BH-301); and,

3. sequential sample number (i.e. BH-301-2).

For ground water sample labelling, a two (2) component sample number will be used (i.e. MW-307). All water samples collected from the same location, over a period of time, typically have the same sample prefix and location number, the sampling date is used to differentiate between samples.

During the field work, a permanent waterproof marker will be used to label the sample containers. A marker, which is free of toluene (i.e. Staedtler Lumocolor permanent marker) will be used on the sample containers. Upon sample retrieval, samples for analysis will be collected directly into laboratory containers (with or without preservatives depending on analytical suites) and placed into coolers with ice. The requested chemical analyses for the samples were documented in the chain of custody that will be placed in the cooler. Prior to shipment, signed and dated custody seals will be affixed to the coolers. The coolers will be then delivered to the laboratory.

4.3 Sample Equipment Cleaning Procedure

The non-dedicated field soil sampling equipment (e.g. hand tools, split spoon) will be brushed to remove loose soil and subsequently cleaned with detergent (Alconox®) and distilled water between sample collection to minimize the potential for cross-contamination between samples. Dedicated disposable nitrile gloves will be worn during the handling of each sample.

Prior to use of non-dedicated field equipment for ground water monitoring and sampling, the interface probe will be washed using detergent (Alconox) and rinsed with distilled water to minimize the potential for cross-contamination between each well.

4.4 Field and Laboratory QA/QC Samples

Field QA/QC samples for soil sampling shall include the following:

- One (1) field duplicate sample will be submitted for every ten (10) soil samples submitted for laboratory analysis of metals and inorganics and/or pH.

Field QA/QC samples for ground water sampling shall include the following:

- One (1) field duplicate sample submitted for every ten (10) samples for laboratory analysis of metals and inorganics.
- One (1) field duplicate sample submitted for every ten (10) samples for laboratory analysis of BTEX and PHCs F1 to F4.
- One (1) field blank sample submitted for laboratory analysis of BTEX and PHC F1 to F4.
- One (1) trip blank sample will be submitted for laboratory analysis of BTEX and PHC F1.

4.5 Data Review and Validation

Sampling data generated for this project will be reviewed and verified by SNC-Lavalin personnel to ensure that data conforms to and satisfies project objectives. Data verification included ensuring that calibration of field instruments should be satisfactory and field blank and field duplicates meet acceptable criteria. The data verification and reporting process for the laboratory data involved ensuring that the holding times, precision, accuracy, laboratory blanks, and detection limits are within acceptance criteria. If significant variances are identified, the final report will be reviewed to determine if the overall project objectives are met and/or if additional investigations or corrective actions are required.

5 References

Ontario Ministry of the Environment (MOE), 2011a. Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. April 15, 2011.

Ontario Ministry of the Environment (MOE), 2011b. Guide for Completing Phase Two Environmental Site Assessment Under Ontario Regulation 153/04. June 2011.

Ontario Ministry of the Environment (MOE), 2013. Draft Technical Guidance for Soil Vapour Intrusion Assessment. September 2013.

SNC-Lavalin Inc. (SNC-Lavalin), 2014. Field Work Guidance Manual. July 2014 (amended in 2017 and 2019).

SNC-Lavalin Inc. (SNC-Lavalin), 2021. “Phase One Environmental Site Assessment – 25 Rutherford Road South, Brampton, Ontario”, dated August 9, 2021.

Figures

APPENDIX B
Borehole Logs

BOREHOLE NUMBER BH/MW101

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 3/27/18 **COMPLETED** 3/27/18
GROUND ELEVATION 99.97 m **HOLE SIZE** 15 cm
DRILLING CONTRACTOR Profile Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push/Solid Stem Augers
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING 2.22 m / Elev 97.75 m

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Casing Top Elev: 100.92 (m)
1	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel over silty clay, moist, loose, trace gravel	
				1.20 / 98.77	Bentonite hole plug
2	SS2	GSTH = 0 PID = 0		CLAYEY SILT - Brown, moist, hard to firm	
				Moist to wet from 2.4 m bgs	Depth to groundwater 2.22 m bgs (April 3, 2018)
3	SS3	GSTH = 0 PID = 0			
	SS4	GSTH = 0 PID = 0		Grey at 3.3 m bgs	
4	SS5	GSTH = 0 PID = 0			Sand pack Screen
5	SS6	GSTH = 0 PID = 0		Some rock and trace shale, wet, observed between 4.8 and 5.4 m bgs	
	AU			Sample refusal at 5.4 m bgs	
				5.64 / 94.33	
6				Bottom of hole at 5.64 m.	

ENVIRONMENTAL BH WATER LEVEL MARKER RUTHERFORD BH LOGS.GPJ GINT STD CANADA.GDT 6/7/18

BOREHOLE NUMBER BH/MW102

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 3/27/18 **COMPLETED** 3/27/18
GROUND ELEVATION 99.98 m **HOLE SIZE** 15 cm
DRILLING CONTRACTOR Profile Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push/Solid Stem Augers
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING 4.55 m / Elev 95.43 m

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Casing Top Elev: 100.99 (m)
1	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel, dry, over silty clay, grey/brown, moist, firm to soft, trace gravel	
	SS2	GSTH = 0 PID = 0			Bentonite hole plug
				1.80 / 98.18	
2	SS3	GSTH = 0 PID = 0		CLAYEY SILT - Brown, dry to moist, firm	
				2.40 / 97.58	
3	NR			No recovery, some rocks, concrete, potential former building footings	
				3.60 / 96.38	
4	SS4	GSTH = 0 PID = 0		SHALE - Grey, weathered, trace sand and silt	Sand pack
					Screen
5	AU				Depth to groundwater 4.55 m bgs (April 3, 2018)
				5.84 / 94.14	
6				Bottom of hole at 5.84 m.	

ENVIRONMENTAL BH WATER LEVEL MARKER RUTHERFORD BH LOGS.GPJ GINT STD CANADA.GDT 6/7/18

BOREHOLE NUMBER BH/MW103

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 3/27/18 **COMPLETED** 3/27/18
GROUND ELEVATION 99.8 m **HOLE SIZE** 15 cm
DRILLING CONTRACTOR Profile Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push/Solid Stem Augers
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING 2.39 m / Elev 97.41 m

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Casing Top Elev: 100.73 (m)
1	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel over silty clay, grey/brown, trace sand, trace rocks, moist, firm to soft	
1.20					98.60
				CLAYEY SILT - Brown/grey, dry, hard	← Bentonite hole plug
2	SS2	GSTH = 0 PID = 0		Trace weathered grey shale at 2.1 m bgs	
2.40					97.40
				SHALE - Grey, weathered, trace rocks	← Depth to groundwater 2.39 m bgs (April 3, 2018)
3	SS3	GSTH = 0 PID = 0		Sample refusal at 3.0 m bgs	
4	AU				← Sand pack
					← Screen
5					
5.92					93.88
6					

Bottom of hole at 5.92 m.

ENVIRONMENTAL BH WATER LEVEL MARKER RUTHERFORD BH LOGS.GPJ GINT STD CANADA.GDT 6/7/18

BOREHOLE NUMBER BH106

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 3/28/18 **COMPLETED** 3/28/18
GROUND ELEVATION _____ **HOLE SIZE** 10 cm
DRILLING CONTRACTOR Profile Drilling
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING ---

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
1	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel, dry, loose, over fine sand, moist Trace brick at 1.2 m bgs	
				1.20	
	SS2	GSTH = 0 PID = 0		SANDY SILT - Grey, wet, trace clay, compact	
				1.80	
2	SS3	GSTH = 0 PID = 0		CLAYEY SILT - Brownish grey, moist, firm to soft	
3	SS4	GSTH = 0 PID = 0		Increased softness and moisture between 2.4 and 3.6 m bgs End of borehole at 3.6 m bgs	
				3.60	
				Bottom of hole at 3.60 m.	
4					
5					
6					

ENVIRONMENTAL BH WATER LEVEL MARKER RUTHERFORD BH LOGS.GPJ GINT STD CANADA.GDT 6/7/18

BOREHOLE NUMBER BH202

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 4/24/18 **COMPLETED** 4/24/18
GROUND ELEVATION _____ **HOLE SIZE** 10 cm
DRILLING CONTRACTOR Sonic Soil Sampling
GROUND WATER LEVELS:
DRILLING METHOD Hand Held Pionjar
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING ---

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel, over fine sand, brown, moist, loose	
	SS2	GSTH = 0 PID = 1		0.75	
1	SS3	GSTH = 0 PID = 1		CLAYEY SILT - Brown, moist, firm Grey, trace gravel at 1.5 m bgs	
2	SS4	GSTH = 0 PID = 1		2.10 Sample refusal at 2.1 m bgs	
				Bottom of hole at 2.10 m.	
3					
4					
5					
6					

BOREHOLE NUMBER BH203

CLIENT City of Brampton
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S18210B
PROJECT LOCATION 25 Rutherford Road South, Brampton
DATE STARTED 4/24/18 **COMPLETED** 4/24/18
GROUND ELEVATION _____ **HOLE SIZE** 10 cm
DRILLING CONTRACTOR Sonic Soil Sampling
GROUND WATER LEVELS:
DRILLING METHOD Hand Held Pionjar
AT TIME OF DRILLING ---
LOGGED BY DH **CHECKED BY** JS
AT END OF DRILLING ---
NOTES Vapour Measurements in ppm
AFTER DRILLING ---

DEPTH (m)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
	SS1	GSTH = 0 PID = 0		FILL - Sand and gravel, over fine sand, brown, moist, loose	
	SS2	GSTH = 0 PID = 1			
1	SS3	GSTH = 0 PID = 1		0.75 SANDY SILT - Grey/brown, wet, fine to coarse, trace organics	
	SS4	GSTH = 0 PID = 1		1.50 CLAYEY SILT - Grey, moist, firm	
2				2.10 Sample refusal at 2.1 m bgs	
				Bottom of hole at 2.10 m.	
3					
4					
5					
6					

ENVIRONMENTAL BH WATER LEVEL MARKER RUTHERFORD BH LOGS.GPJ GINT STD CANADA.GDT 6/7/18

RECORD OF BOREHOLE No. BH 19-2

wood.

Project Number:	TOR190020	Drilling Location:	25 Rutherford Road E:601475 N:4839187	Logged by:	JD
Project Client:	City of Brampton	Drilling Method:	200 mm Hollow Stem Augering	Compiled by:	PR
Project Name:	Supplemental Phase Two ESA	Drilling Machine:	Track Mounted Drill CCME 55	Reviewed by:	SD
Project Location:	25 Rutherford Road South, Brampton, Ontario	Date Started:	Sep 11, 19	Date Completed: Sep 11, 19	Revision No.: 0, 11/4/19

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING		COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION Approximate Geodetic Ground Surface Elevation:	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: ▲ COV (LEL) ■ TOV (LEL) 2 4 6 8; △ COV (ppm) □ TOV (ppm) 100 200 300 400; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Brown **Sandy Silt FILL** trace gravel, brick pieces moist	SS	1	58	16						Submitted for PAH and metals/inorganic analysis
	Brown 0.6 **Sand/Sand and Gravel FILL** asphalt fragments moist	SS	2	83	13	1					Submitted for PAH analysis
	Brown 1.4 **SANDY SILT** compact moist to wet	SS	3	25	23	2					Submitted for VOC and PHC analysis
	Brown 2.2 **SAND and GRAVEL** some silt, trace clay very dense moist to wet	SS	4	58	71						
		SS	5	21	95	3					
		SS	6	67	50 / 80mm	4		50 ○ 80 mm			
	END OF BOREHOLE 4.4 50 mm dia. monitoring well with protective flushmount casing installed (depth below ground surface): Bentonite: 0.0 - 0.9 m Sand Filter: 0.9 - 4.3 m Screen: 1.2 - 4.3 m										

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Canada
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www.woodplc.com

▽ No freestanding groundwater measured in open borehole on completion of drilling.

▼ Groundwater depth observed on at a depth of: 2.4 m.

Scale: 1 : 53

RECORD OF BOREHOLE No. BH301

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 3, 2020 Date Completed: Mar 3, 2020	Revision No.:	0

EASTING: 601494.769
NORTHING: 4839210.682

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 215.99 m)	Elev.	Depth	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	Unit Weight (kN/m³)	COMMENTS
	FILL Brown, dense, gravelly SAND, trace silt, wet.	215.4		SS	01	59	42		
	NATIVE TILL Brown, stiff to very stiff, sandy silty CLAY, trace gravel, trace oxidation, moist.	0.6		SS	02	51	11		
			1	215					
				SS	03	100	27	22.17	
			2	214					
				SS	04	144	100/ 250mm		SPT Refusal due to possible cobbles/boulders
			3	213					
				SS	05	111	50/ 125mm		SPT Refusal due to possible cobbles/boulders
			4	212					
				SS	06	100	50/ 100mm		
			5	211					
		209.9	6	210					
	SHALE-TILL COMPLEX Grey, hard, gravelly silty CLAY, some sand, some shale particles, moist. GA: 25%, SA:18%, SI:36%, CL:21%	6.1		SS	07	87	50/ 75mm		SPT Refusal due to possible weathered bedrock
			7	209					
				SS	08	100	50/ 100mm		SPT Refusal due to possible weathered bedrock
			8	208					
			9	207					
		206.7		SS	09	100	50/ 125mm		SPT Refusal due to possible weathered bedrock
	End of borehole	9.3							

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

No freestanding groundwater measured in open borehole upon completion of drilling. Cave in depth recorded on completion of drilling: 4.6 m.

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RECORD OF BOREHOLE No. BH304(MW)

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 10, 2020 Date Completed: Mar 10, 2020	Revision No.:	0

EASTING: 601506.765
NORTHING: 4839234.664

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 215.99 m)	Elevation	Depth	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	Field Testing	Lab Testing	Instrumentation Installation	Unit Weight (kN/m³)	COMMENTS
	FILL Grey, compact, SAND and GRAVEL, wet.	215.7	0.3	SS	01	54	10		15, 7			
	Dark brown, stiff, silty CLAY, trace sand, trace gravel, rootlet, moist to wet.			SS	02	67	13		28			
		214.5	1.5									
	Grey, hard, sandy silty CLAY, trace to some gravel, trace oxidation,moist to wet.			SS	03	62	38		21			
		213.7	2.3									
	NATIVE TILL Brown to grey, compact to dense, gravelly silty SAND, trace clay, trace broken cobble pieces, moist to wet. GA:29%, SA:32%, SI:31%, CL:8%			SS	04	79	21		15			
				SS	05	59	30		12			
		211.4	4.6									
	Grey, very dense, silty SAND, some gravel, some broken cobble pieces, trace oxidation,moist to wet.			SS	06	46	73		9			
		209.9	6.1	SS	07	100	50/ 75mm		10			SPT Refusal due to possible cobble/boulders
	Grey, hard, sandy silty CLAY, some gravel to gravelly, trace broken cobble pieces, moist.			SS	08	100	50/ 25mm		15			SPT Refusal due to possible cobble/boulders
		206.9	9.1	SS	09		50/ 00mm		17			SPT Refusal due to possible cobble/boulders
	End of borehole											

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

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Groundwater depth on completion of drilling: 3.3 m

Cave in depth recorded on completion of drilling: 4.3 m.

Groundwater depth observed on 3/25/2020 at a depth of: 2.2 m.

RECORD OF BOREHOLE No. BH305

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 10, 2020 Date Completed: Mar 10, 2020	Revision No.:	0

EASTING: 601516.186
NORTHING: 4839227.152

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 216.18 m)	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	FIELD TESTING: Penetration Testing (SPT / DCPT), MTO Vane* (Intact / Remould), Nilcon Vane* (Intact / Remould), * Undrained Shear Strength (kPa) 20 40 60 80	LAB TESTING: Pocket Penetrometer (kg/cm²) 1 2 3 4; Soil Vapour Reading parts per million (ppm) 100 200 300 400; Lower Explosive Limit (LEL); * Passing 75 um (%); Moisture Content (%); Atterberg Limits W_P 20 40 60 80 W_L	INSTRUMENTATION INSTALLATION	Unit Weight (kN/m³)	COMMENTS
	TOPSOIL Topsoil ~ 80 mm 216.1 / 0.1											
	FILL Brown, compact, SAND, some gravel, trace silt, moist to wet. 215.6 / 0.6	SS	01	67	20		216		24			
	Dark Grey, firm, silty CLAY, trace gravel, trace rootlet, trace sand, moist. 214.7	SS	02	67	7	1	215		20			
	NATIVE TILL 1.5 Brownish grey, very stiff, sandy silty CLAY, trace to some gravel, trace oxidized, moist. 213.9	SS	03	100	16	2	214		17		21.69	
	Brown, compact to very dense, gravelly SAND, some silt, trace to some clay, trace oxidation, moist. 2.3	SS	04	100	29				12			
	broken cobble pieces	SS	05	100	50/ 100mm	3	213		13	▽		SPT Refusal due to possible cobble/boulder
		SS	06	100	50/ 25mm	4	212		10			SPT Refusal due to possible cobble/boulder
	210.1				50/	5	211					
	SHALE-TILL COMPLEX 6.1 Dark grey, hard, clayey SILT, some sand, trace broken cobble pieces, moist	SS	07	100	125 mm	6	210		10			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
		SS	08	100	50/ 25mm	7	209		14			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	206.9	SS	09	100	50/ 125mm	8	208		8			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	End of borehole 9.3					9	207					

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

▽ Groundwater depth on completion of drilling: 3.4 m

■ Cave in depth recorded on completion of drilling: 4.5 m.

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RECORD OF BOREHOLE No. BH306(MW)

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 11, 2020 Date Completed: Mar 11, 2020	Revision No.:	0

EASTING: 601529.457
NORTHING: 4839218.653

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 215.91 m)	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	FIELD TESTING: Penetration Testing (SPT / DCPT), MTO Vane* (Intact / Remould), Nilcon Vane* (Intact / Remould), * Undrained Shear Strength (kPa) 20 40 60 80	LAB TESTING: Pocket Penetrometer (kg/cm²) 1 2 3 4; Soil Vapour Reading parts per million (ppm) 100 200 300 400; Lower Explosive Limit (LEL); * Passing 75 um (%); Moisture Content (%); Atterberg Limits W_P 20 40 60 80 W_L	INSTRUMENTATION INSTALLATION	Unit Weight (kN/m³)	COMMENTS
	FILL Brownish grey, dense, SAND, some silt, trace to some gravel, trace organic, moist.	SS	01	70	42				9			
	215.3 Dark Brown, firm to stiff, silty CLAY, trace sand, trace gravel, trace rootlet, moist. 0.6	SS	02	54	8	1	215		13			
	214.4 NATIVE TILL 1.5 Brownish grey, firm to hard, silty CLAY, trace to some sand, trace gravel, trace oxidation, moist.	SS	03	54	7	2	214		25			
	becomes sandy	SS	04	100	50/ 100mm				28			SPT Refusal due to possible cobble/boulder
	212.9 Grey, very stiff, silty CLAY, trace sand, trace gravel, trace broken cobble pieces, moist to wet. 3.1 GA: 10%, SA: 10%, SI: 57%, CL:3%	SS	05	100	29	3	213		12			
	211.3 Grey, hard, sandy silty, CLAY, trace gravel, 4.6 moist to wet. GA: 12%, SA:45%, SI&CL: 43%.	SS	06	100	90/ 200mm	4	212		12			SPT Refusal due to possible cobble/boulder
		SS	07	100	50/ 100mm	5	211		7			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
		SS	08	100	50/ 25mm	6	210		20			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	206.7 End of borehole 9.2	SS	09	100	50/ 25mm	7	209		29			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	Notes: 1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.					8	208					
						9	207					

Groundwater depth on completion of drilling: 8.2 m
Cave in depth recorded on completion of drilling: 9.2 m.
Groundwater depth observed on 3/25/2020 at a depth of: 2.4 m.

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Borehole ID: BH-306B

Project No.: 671835
Client: City of Brampton
Date Completed: March 5, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: NA

Supervisor: A.S
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.99
0 / 0	7-20-11-10	BH-306B-1	◆	<5	50		SILT and CLAY moist, dark brown, trace gravel and sand	
3 / 1	6-5-5-4	BH-306B-2	◆	<5	58		moist to wet, light brown/grey, some sand	215.00
6 / 2	1-5-7-10	BH-306B-3	◆	<5	70		moist, light brown, some sand, trace gravel	214.00
9 / 3	10-25-16-23	BH-306B-4		<5	50		moist to wet, light brown, some gravel and clay	
10 / 3							End of Borehole at 2.9 m bgs.	213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

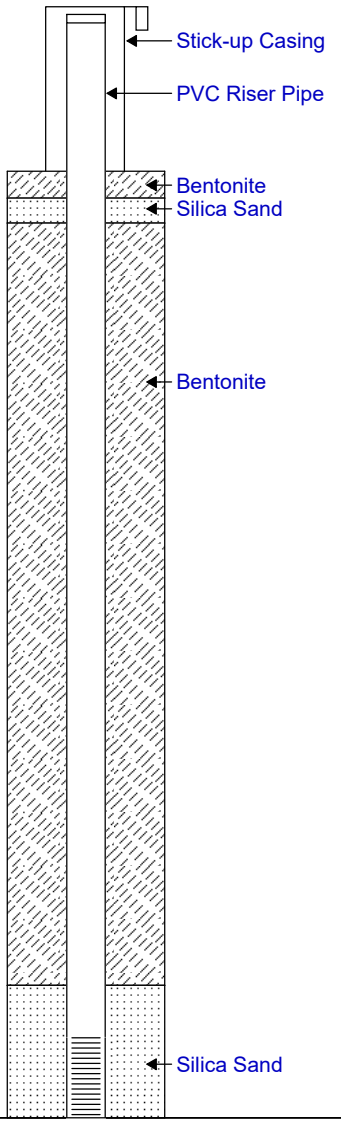
Borehole/Monitoring Well ID: BH-307 (MW-307)

Project No.: 671835
Client: City of Brampton
Date Completed: March 5, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: NA

Supervisor: A.S
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm
Monitoring Well Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
Well Casing: Stick-up
Well Screen: 5.1 cm PVC Size 10 Slot
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.95
							Asphalt	
1	3-4-9-11	BH-307-1		<5	75		SILT and CLAY moist to wet, light grey, trace sand	215.00
2	7-10-17-50 for 3"	BH-307-2		<5	68			214.00
3	15-24-31-25	BH-307-3		<5	75		light brown, some sand and gravel	213.00
4	28-30-50 for 4"	BH-307-4		<5	65		some clay and shale pieces	212.00
5	8-16-20-33	BH-307-5		<5	67		SILT and SAND moist to wet, light brown, some clay and shale pieces	211.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable

SNC·LAVALIN

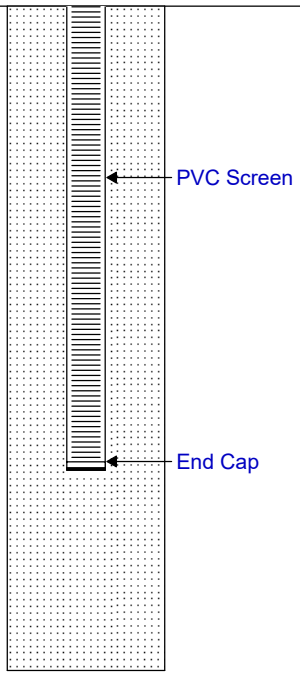
Borehole/Monitoring Well ID: BH-307 (MW-307)

Project No.: 671835
Client: City of Brampton
Date Completed: March 5, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: NA

Supervisor: A.S
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm
Monitoring Well Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
Well Casing: Stick-up
Well Screen: 5.1 cm PVC Size 10 Slot
OVM: RKI Eagle 2

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
18								
19								
20	6	50 for 5"	BH-307-6	<5	20		light grey, some clay	210.00
21								
22								
23	7							209.00
24								
25		50 for 1"	BH-307-7	<5	3			
26	8							208.00
27								
28								
29	9							207.00
30		50 for 2"	BH-307-8	<5	8			
31							End of Borehole at 9.2 m bgs.	
32								
33	10							206.00
34								
35								
36	11							205.00
37								
38								



(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable

SNC·LAVALIN

Borehole ID: BH-309B

Project No.: 671835
Client: City of Brampton
Date Completed: March 5, 2020
Location: 25 Rutherford Rd. South
Site Datum: NA

Supervisor: A.S
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.97
0–2 / 0	12-17-16-10	BH-309B-1	◆	<5	58		gravelly SILT and CLAY dry to moist, light brown / grey	
3–4 / 1	4-6-4-5	BH-309B-2		<5	50		SILT and CLAY moist, dark brown, trace gravel	215.00
5–7 / 2	4-6-11-20	BH-309B-3	◆	<5	42		some sand	214.00
8–9 / 3	9-50 for 4"	BH-309B-4		<5	17		light brown, some clay and shale pieces	213.00
10–12 / 3	1-8-16-23	BH-309B-5		<5	42		light grey	
13 / 4							End of Borehole at 3.7 m bgs.	212.00
15 / 5								211.00
18 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

RECORD OF BOREHOLE No. BH311(MW)

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 9, 2020 Date Completed: Mar 9, 2020	Revision No.:	0

EASTING: 601531.342
NORTHING: 4839245.519

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 216.04 m)	Depth	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	FIELD TESTING: Penetration Testing (SPT ○ / DCPT ●), MTO Vane* (△ Intact / ▲ Remould), Nilcon Vane* (◇ Intact / ◆ Remould), * Undrained Shear Strength (kPa) 20 40 60 80	LAB TESTING: ★ Pocket Penetrometer (kg/cm²) 1 2 3 4; Soil Vapour Reading △ parts per million (ppm) 100 200 300 400; ▲ Lower Explosive Limit (LEL); ✱ Passing 75 um (%); ○ Moisture Content (%); Atterberg Limits W_P ○ W_L 20 40 60 80	INSTRUMENTATION INSTALLATION	Unit Weight (kN/m³)	COMMENTS
	FILL Brown, compact, gravelly SAND, trace silt, trace clay, moist.	0.3	SS	01	79	24				12			
	Brown, compact, SAND, some silt, trace gravel, trace clay, moist.	0.6											
	Brownish grey, stiff, sandy silty CLAY, trace gravel, trace to some rootlet, moist.	1.5	SS	02	70	11	1	215		22			
	NATIVE TILL Brownish grey, very stiff to hard, sandy silty CLAY, trace gravel, trace broken cobble pieces, oxidized, moist.		SS	03	79	25	2	214		15			
			SS	04	100	66				10			
			SS	05	100	85	3	213		9			
	Grey, hard, sandy silty CLAY, trace to some gravel, moist. GA: 19%, SA: 22%, SI: 20%, CL: 19%	4.6	SS	06	70	44	4	212		10			
	SHALE-TILL COMPLEX <<Grey, hard, sandy silty CLAY, trace gravel, weathered shale fragments, trace broken cobble pieces, moist.	6.1	SS	07	180	50/ 50mm	5	211		7			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
			~~SS~~	~~08~~	~~100~~	50/ 30mm	6	210		6			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
			SS	09	100	50/ 50mm	7	209		15			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	End of borehole	9.2					8	208					
							9	207					

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

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▽ Groundwater depth on completion of drilling: 3.5 m

▼ Groundwater depth observed on 3/25/2020 at a depth of: 2.2 m.

Cave in depth recorded on completion of drilling: Open

Scale: 1 : 58

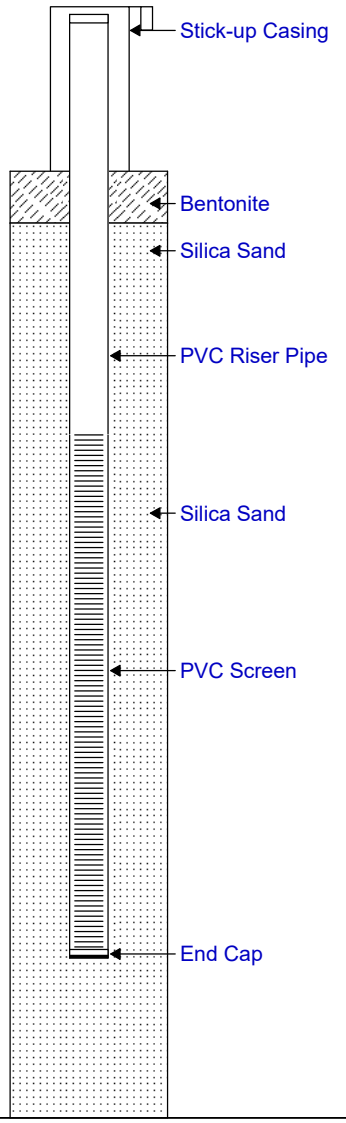
Borehole/Monitoring Well ID: BH-312 (MW-312)

Project No.: 671835
Client: City of Brampton
Date Completed: March 12, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: NA

Supervisor: R.M
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm
Monitoring Well Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
Well Casing: Stick-up
Well Screen: 5.1 cm PVC Size 10 Slot
OVM: NA

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.00 215.90
0	5-8-9-6	BH-312-01		NA	33		SAND moist, light brown, some gravel and compact roots	
1	1-8-9-4	BH-312-02		NA	75		sandy SILT moist to wet, brown, some clay and cobbles	215.00
2	4-13-17-23	BH-312-03		NA	83		wet, oxidation	214.00
3	15-16-19-33	BH-312-04		NA	95		moist to wet, dark brown / black	213.00
4	50 for 4"	BH-312-05		NA	13		brown, trace clay	212.00
5	11-16-15-22	BH-312-06		NA	100			211.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable

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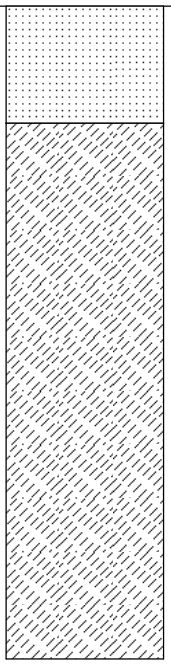
Borehole/Monitoring Well ID: BH-312 (MW-312)

Project No.: 671835
Client: City of Brampton
Date Completed: March 12, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: NA

Supervisor: R.M
Drilling Method: Solid Stem Auger
Borehole Diameter: 15.2 cm
Monitoring Well Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: B57 Mobile
Well Casing: Stick-up
Well Screen: 5.1 cm PVC Size 10 Slot
OVM: NA

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
18							SAND dry to moist, grey, some cobble	210.00
19	6							
20	>50 for 1"	BH-312-07		NA	4		boulders moist to wet, grey, trace clay	
21								
22								209.00
23	7							
24								
25	>50 for 0.4"	BH-312-08		NA	0		silty SAND wet, grey, some cobbles	208.00
26	8							
27								
28								207.00
29	9							
30	>50 for 1"	BH-312-09		NA	4		moist, dark grey, some cobbles	
31							End of Borehole at 9.3 m bgs.	
32								206.00
33	10							
34								
35								205.00
36	11							
37								
38								204.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable

RECORD OF BOREHOLE No. BH313(MW)

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 6, 2020 Date Completed: Mar 6, 2020	Revision No.:	0

EASTING: 601521.259
NORTHING: 4839252.573

Local Ground Surface Elevation: 215.73 m

Depth (m)	Elevation (m)	Description	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	Pocket Penetrometer (kg/cm²)	Unit Weight (kN/m³)	Comments
0	215	NATIVE TILL Brownish grey, stiff to hard, sandy silty CLAY, trace gravel, trace oxidation, moist.	SS	01	79	10	14		
1			SS	02	100	16			
		GA: 7%, SA: 22%, SI:45%, CL:26%.	SS	03	100	10	15		
2	214		SS	04	100	46	9		
3	213	trace broken cobble pieces.	SS	05	95	51	10		
4	212								
5	211		SS	06	100	39	9		
6	210	becomes gravelly.	SS	07	154	50/ 125mm	15	20.5	SPT Refusal due to possible cobble/boulder and/or weathered bedrock
7	209								
8	208		SS	08	267	50/ 25mm	9		SPT Refusal due to possible cobble/boulder and/or weathered bedrock
9	207	206.6	SS	09	1000	50/ 10mm	8		SPT Refusal due to possible cobble/boulder and/or weathered bedrock
		End of borehole 9.2							

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

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No freestanding groundwater measured in open borehole upon completion of drilling. Cave in depth recorded on completion of drilling: Open

Groundwater depth observed on 3/25/2020 at a depth of: 2.0 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commisioned and the accompanying'Notes to Record of Boreholes'.

Scale: 1 : 58

RECORD OF BOREHOLE No. BH317

Project Number:	671835	Drilling Location:	As per Borehole layout	Logged by:	RM
Client:	Region of Peel	Drilling Method:	100 mm Solid Stem Augering	Compiled by:	SR
Project Name:	Geotechnical Investigation: 25 Rutherford Road South	Drilling Machine:	Track Mounted Drill	Reviewed by:	MT
Location:	25 Rutherford Rd. South, Brampton, ON	Date Started:	Mar 4, 2020 Date Completed: Mar 4, 2020	Revision No.:	0

EASTING: 601546.357
NORTHING: 4839263.891

Lithology Plot	DESCRIPTION (Local Ground Surface Elevation: 215.83 m)	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	FIELD TESTING: Penetration Testing (SPT ○ / DCPT ●); MTO Vane* (Intact △ / Remould ▲); Nilcon Vane* (Intact ◇ / Remould ◆); * Undrained Shear Strength (kPa) 20 40 60 80	LAB TESTING: ★ Pocket Penetrometer (kg/cm²) 1 2 3 4; Soil Vapour Reading △ parts per million (ppm) 100 200 300 400; ▲ Lower Explosive Limit (LEL); * Passing 75 um (%); ○ Moisture Content (%); Atterberg Limits W_P W_L 20 40 60 80	INSTRUMENTATION INSTALLATION	Unit Weight (kN/m³)	COMMENTS
	ASPHALT PAVEMENT ~ 150 mm (215.7)											
	FILL (0.2) Brown, compact, gravelly SAND, some silt, moist. (215.1)	SS	01	33	16			○	16			
	FILL (0.8) Brown, compact, silty SAND, trace gravel, trace clay, moist.	SS	02	41	12	1	215	○	12			
		SS	03	100	23	2	214	○	12			
	(213.5) NATIVE TILL (2.3) Brown to grey, hard, sandy silty CLAY, trace gravel, moist. GA: 6%, SA:27%, SI:47%, CL:20%. some broken cobble pieces	SS	04	33	57	3	213	○	9			
		SS	05	92	54			○	8			
	some broken cobble pieces	SS	06	50	50/ 100mm	4	212		9			SPT Refusal due to possible cobble/boulder
						5	211			▽		
		SS	07	100	50/ 50mm	6	210		8			SPT Refusal due to possible cobble/boulder and/or weathered bedrock
	(208.2) End of borehole (7.7)	SS	08	0	50/ 50mm	7	209					SPT Refusal due to possible cobble/boulder and/or weathered bedrock

Notes:

1. GA, SA, SI and CL denote Gravel, Sand, Silt and Clay.

▽ Groundwater depth on completion of drilling: 5.8 m

Cave in depth recorded on completion of drilling: Open

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Scale: 1 : 58

SNC·LAVALIN

Borehole ID: BH-501

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.03
0–1 / 0	NA	BH-501-1	◆	<5	50		sandy SILT dry, light brown, come clay, trace gravel	
2–4 / 1	NA	BH-501-2	◆	<5	100		clayey SILT dry to moist, light brown / grey, some sand, trace gravel	214.00
5–6 / 2	NA	BH-501-3	◆	<5	100		sandy clayey SILT dry to moist, light brown / grey, trace gravel	213.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								212.00
13 / 4								211.00
16 / 5								210.00
20 / 6								209.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-502

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.91
0 / 0	NA	BH-502-1		<5	75		clayey SILT dry to moist, dark grey, trace gravel and sand	
3 / 1	NA	BH-502-2	◆	<5	100			215.00
6 / 2	NA	BH-502-3	◆	<5	100		dry, light grey, some sand, trace gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-503

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0 / 0	NA	BH-503-1	◆	<5	50		clayey SILT dry to moist, light brown / grey, some sand, trace gravel	
2 / 1	NA	BH-503-2	◆	<5	100		moist, brown / grey, trace gravel and sand	215.00
5 / 2	NA	BH-503-3	◆	<5	100		SILT dry, light brown, some sand and clay, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-504

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
0 / 0							Ground Surface	215.90
1 /	NA	BH-504-1	◆	<5	0		silty SAND moist, light brown, trace gravel	
2 /								
3 / 1	NA	BH-504-2	◆	<5	100		silty CLAY moist, dark brown / grey, trace gravel	215.00
4 /								
5 /								
6 / 2	NA	BH-504-3	◆	<5	100		clayey SILT dry to moist, dark brown / grey, trace gravel and sand	214.00
7 /								
8 /	NA	BH-504-4	◆	<5	100			
9 /								
10 / 3							End of Borehole at 2.7 m bgs.	213.00
11 /								
12 /								
13 / 4								212.00
14 /								
15 /								
16 / 5								211.00
17 /								
18 /								
19 / 6								210.00
20 /								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-505

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0–3 / 0–1	NA	BH-505-1	◆	<5	0		silty SAND dry to moist, light brown, some gravel, trace clay	
3–6 / 1–2	NA	BH-505-2	◆	<5	100			215.00
5–6 / 2	NA	BH-505-3	◆	<5	50		sandy CLAY moist, light brown, some silt, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-506

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.84
0–1 / 0	NA	BH-506-1	◆	<5	50		clayey SILT dry to moist, dark brown / grey, trace gravel and sand	
2–3 / 1	NA	BH-506-2	◆	<5	50		some sand, trace gravel	215.00
4–5								
5–6 / 2	NA	BH-506-3	◆	<5	100		trace gravel and sand	214.00
7							End of Borehole at 2.1 m bgs.	
8–9 / 3								213.00
10–11								
12–13 / 4								212.00
14–15								
16–17 / 5								211.00
18–19								
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-507

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.89
0–1 ft / 0 m	NA	BH-507-1	◆	<5	75		clayey SILT dry to moist, dark brown / grey, some sand, trace gravel	
2–3 ft / 1 m	NA	BH-507-2	◆	<5	100		moist, dark grey, trace gravel	215.00
5–6 ft / 2 m	NA	BH-507-3	◆	<5	100		moist, grey, trace gravel	214.00
7 ft							End of Borehole at 2.1 m bgs.	
10 ft / 3 m								213.00
13 ft / 4 m								212.00
16 ft / 5 m								211.00
19 ft / 6 m								210.00
20 ft								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-508

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.02
0–1 / 0	NA	BH-508-1	◆	<5	50		sandy SILT dry to moist, light grey, some gravel	
2–3 / 1	NA	BH-508-2	◆	<5	100		clayey SILT dry to moist, grey, trace gravel and sand	215.00
5–6 / 2	NA	BH-508-3	◆	<5	42		dry, light grey, some sand, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-509

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.18
0–1 / 0	NA	BH-509-1	◆	<5	50		clayey SILT dry to moist, grey, trace gravel and sand	
2–3 / 1	NA	BH-509-2	◆	<5	100		dark grey	215.00
4–5 / 1								
6 / 2	NA	BH-509-3	◆	<5	50			
7–8 / 2	NA	BH-509-4	◆	<5	100		light brown / grey, some sand, trace gravel	214.00
9 / 3							End of Borehole at 2.7 m bgs.	213.00
10 / 3								
11–12 / 4								212.00
13 / 4								
14–15 / 5								211.00
16 / 5								
17–18 / 6								
19–20 / 6								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-510

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.10
0–1 / 0	NA	BH-510-1	◆	<5	50		clayey SILT dry to moist, dark grey, trace gravel and sand	
2–3 / 1	NA	BH-510-2	◆	<5	100			215.00
4–5 / 1								
5–6 / 2	NA	BH-510-3	◆	<5	50		light grey	214.00
7 / 2							End of Borehole at 2.1 m bgs.	
8–10 / 3								213.00
11–13 / 4								212.00
14–16 / 5								211.00
17–20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-511

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.99
0–1 / 0	NA	BH-511-1	◆	<5	50		gravelly SAND dry to moist, dark grey, some silt, trace clay	
2–4 / 1	NA	BH-511-2	◆	<5	100		silty SAND moist, grey, some gravel, trace clay	215.00
5–7 / 2	NA	BH-511-3	◆	<5	50		clayey SILT dry to moist, light grey, trace sand and gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-512

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.96
0–1 / 0	NA	BH-512-1	◆	<5	75		sandy clayey SILT dry to moist, brown / grey, trace gravel	
2–3 / 1	NA	BH-512-2	◆	<5	100		clayey SILT dry to moist, dark grey, trace gravel and sand	215.00
4–5								
5–6 / 2	NA	BH-512-3	◆	<5	75		dry to moist, light grey, trace sand and gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-513

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.11
0–1 / 0	NA	BH-513-1		<5	50		silty SAND dry to moist, brown, some gravel	
2–3 / 1	NA	BH-513-2		<5	100		clayey SILT moist, dark grey, some sand, trace gravel	215.00
4–5								
5–6 / 2	NA	BH-513-3		<5	100		dry to moist, dark brown / grey, trace gravel and sand	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-514

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0–1 / 0	NA	BH-514-1	◆	<5	50		gravelly SAND dry to moist, light brown / grey, some silt	
2–4 / 1	NA	BH-514-2	◆	<5	100		clayey SILT dry to moist, dark grey, trace gravel and sand	215.00
5–7 / 2	NA	BH-514-3	◆	<5	75		clayey SILT dry to moist, light grey, trace sand and gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-515

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.16
0–1 / 0	NA	BH-515-1	◆	<5	50		clayey SILT dry to moist, dark grey, trace gravel and sand	
2–3 / 1	NA	BH-515-2	◆	<5	100			215.00
4–5 / 1								
5–6 / 2	NA	BH-515-3		<5	75		light brown / grey	
7 / 2							End of Borehole at 2.1 m bgs.	214.00
8–10 / 3								213.00
11–13 / 4								212.00
14–16 / 5								211.00
17–20 / 6								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-501

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.03
0–1 / 0	NA	BH-501-1	◆	<5	50		sandy SILT dry, light brown, come clay, trace gravel	
2–4 / 1	NA	BH-501-2	◆	<5	100		clayey SILT dry to moist, light brown / grey, some sand, trace gravel	214.00
5–6 / 2	NA	BH-501-3	◆	<5	100		sandy clayey SILT dry to moist, light brown / grey, trace gravel	213.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								212.00
13 / 4								211.00
16 / 5								210.00
20 / 6								209.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-502

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.91
0 / 0	NA	BH-502-1		<5	75		clayey SILT dry to moist, dark grey, trace gravel and sand	
3 / 1	NA	BH-502-2	◆	<5	100			215.00
6 / 2	NA	BH-502-3	◆	<5	100		dry, light grey, some sand, trace gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-503

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0 / 0	NA	BH-503-1	◆	<5	50		clayey SILT dry to moist, light brown / grey, some sand, trace gravel	
2 / 1	NA	BH-503-2	◆	<5	100		moist, brown / grey, trace gravel and sand	215.00
5 / 2	NA	BH-503-3	◆	<5	100		SILT dry, light brown, some sand and clay, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-504

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
0 / 0							Ground Surface	215.90
1 /	NA	BH-504-1	◆	<5	0		silty SAND moist, light brown, trace gravel	
2 /								
3 / 1	NA	BH-504-2	◆	<5	100		silty CLAY moist, dark brown / grey, trace gravel	215.00
4 /								
5 /								
6 / 2	NA	BH-504-3	◆	<5	100		clayey SILT dry to moist, dark brown / grey, trace gravel and sand	214.00
7 /								
8 /	NA	BH-504-4	◆	<5	100			
9 /								
10 / 3							End of Borehole at 2.7 m bgs.	213.00
11 /								
12 /								
13 / 4								212.00
14 /								
15 /								
16 / 5								211.00
17 /								
18 /								
19 / 6								210.00
20 /								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-505

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0–3 / 0–1	NA	BH-505-1	◆	<5	0		silty SAND dry to moist, light brown, some gravel, trace clay	
3–6 / 1–2	NA	BH-505-2	◆	<5	100			215.00
5–6 / 2	NA	BH-505-3	◆	<5	50		sandy CLAY moist, light brown, some silt, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-506

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.84
0–1 / 0	NA	BH-506-1	◆	<5	50		clayey SILT dry to moist, dark brown / grey, trace gravel and sand	
2–3 / 1	NA	BH-506-2	◆	<5	50		some sand, trace gravel	215.00
4–5								
5–6 / 2	NA	BH-506-3	◆	<5	100		trace gravel and sand	214.00
7							End of Borehole at 2.1 m bgs.	
8–9 / 3								213.00
10–11								
12–13 / 4								212.00
14–15								
16–17 / 5								211.00
18–19								
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-507

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.89
0–1 ft / 0 m	NA	BH-507-1	◆	<5	75		clayey SILT dry to moist, dark brown / grey, some sand, trace gravel	
2–3 ft / 1 m	NA	BH-507-2	◆	<5	100		moist, dark grey, trace gravel	215.00
5–6 ft / 2 m	NA	BH-507-3	◆	<5	100		moist, grey, trace gravel	214.00
7 ft							End of Borehole at 2.1 m bgs.	
10 ft / 3 m								213.00
13 ft / 4 m								212.00
16 ft / 5 m								211.00
19 ft / 6 m								210.00
20 ft								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-508

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.02
0–1 / 0	NA	BH-508-1	◆	<5	50		sandy SILT dry to moist, light grey, some gravel	
2–3 / 1	NA	BH-508-2	◆	<5	100		clayey SILT dry to moist, grey, trace gravel and sand	215.00
5–6 / 2	NA	BH-508-3	◆	<5	42		dry, light grey, some sand, trace gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-509

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.18
0–1 / 0	NA	BH-509-1	◆	<5	50		clayey SILT dry to moist, grey, trace gravel and sand	
2–3 / 1	NA	BH-509-2	◆	<5	100		dark grey	215.00
4–5 / 1								
6 / 2	NA	BH-509-3	◆	<5	50			
7–8 / 2	NA	BH-509-4	◆	<5	100		light brown / grey, some sand, trace gravel	214.00
9 / 3							End of Borehole at 2.7 m bgs.	213.00
10 / 3								
11–12 / 4								212.00
13 / 4								
14–15 / 5								211.00
16 / 5								
17–18 / 6								
19–20 / 6								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-510

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.10
0–1 / 0	NA	BH-510-1	◆	<5	50		clayey SILT dry to moist, dark grey, trace gravel and sand	
2–3 / 1	NA	BH-510-2	◆	<5	100			215.00
4–5 / 1								
5–6 / 2	NA	BH-510-3	◆	<5	50		light grey	214.00
7 / 2							End of Borehole at 2.1 m bgs.	
8–10 / 3								213.00
11–13 / 4								212.00
14–16 / 5								211.00
17–20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-511

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.99
0–1 / 0	NA	BH-511-1	◆	<5	50		gravelly SAND dry to moist, dark grey, some silt, trace clay	
2–4 / 1	NA	BH-511-2	◆	<5	100		silty SAND moist, grey, some gravel, trace clay	215.00
5–7 / 2	NA	BH-511-3	◆	<5	50		clayey SILT dry to moist, light grey, trace sand and gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-512

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	215.96
0–1 / 0	NA	BH-512-1	◆	<5	75		sandy clayey SILT dry to moist, brown / grey, trace gravel	
2–3 / 1	NA	BH-512-2	◆	<5	100		clayey SILT dry to moist, dark grey, trace gravel and sand	215.00
4–5								
5–6 / 2	NA	BH-512-3	◆	<5	75		dry to moist, light grey, trace sand and gravel	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-513

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.11
0–1 / 0	NA	BH-513-1		<5	50		silty SAND dry to moist, brown, some gravel	
2–3 / 1	NA	BH-513-2		<5	100		clayey SILT moist, dark grey, some sand, trace gravel	215.00
4–5								
5–6 / 2	NA	BH-513-3		<5	100		dry to moist, dark brown / grey, trace gravel and sand	214.00
7							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
19 / 6								210.00
20								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-514

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.07
0–1 / 0	NA	BH-514-1	◆	<5	50		gravelly SAND dry to moist, light brown / grey, some silt	
2–4 / 1	NA	BH-514-2	◆	<5	100		clayey SILT dry to moist, dark grey, trace gravel and sand	215.00
5–7 / 2	NA	BH-514-3	◆	<5	75		clayey SILT dry to moist, light grey, trace sand and gravel	214.00
							End of Borehole at 2.1 m bgs.	
10 / 3								213.00
13 / 4								212.00
16 / 5								211.00
20 / 6								210.00

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

SNC·LAVALIN

Borehole ID: BH-515

Project No.: 671835
Client: City of Brampton
Date Completed: June 30, 2020
Location: 25 Rutherford Rd. South, Brampton, ON
Site Datum: Geodetic Datum

Supervisor: A.S / P.A
Drilling Method: Direct Push
Borehole Diameter: 5.1 cm

Drilling Company: Landshark
Drilling Equipment: Geoprobe
OVM: RKI Eagle 2

DEPTH (ft / m)	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
							Ground Surface	216.16
0–1 / 0	NA	BH-515-1	◆	<5	50		clayey SILT dry to moist, dark grey, trace gravel and sand	
2–3 / 1	NA	BH-515-2	◆	<5	100			215.00
4–5 / 1								
5–6 / 2	NA	BH-515-3		<5	75		light brown / grey	
7 / 2							End of Borehole at 2.1 m bgs.	214.00
8–10 / 3								213.00
11–13 / 4								212.00
14–16 / 5								211.00
17–20 / 6								

(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

◆ = Sample submitted for laboratory analysis.

NA = Not applicable

RECORD OF TEST PIT No. TP 19-2

wood.

Project Number:	TOR190020	Drilling Location:	25 Rutherford Road	Logged by:	JD
Project Client:	City of Brampton	Drilling Method:	Excavation	Compiled by:	PR
Project Name:	Supplemental Phase Two ESA	Drilling Machine:		Reviewed by:	SD
Project Location:	25 Rutherford Road South, Brampton, Ontario	Date Started:	Sep 12, 19	Date Completed: Sep 12, 19	Revision No.: 0, 11/4/19

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING		COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION Approximate Geodetic Ground Surface Elevation:	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: ▲ COV (LEL) ■ TOV (LEL) 2 4 6 8; △ COV (ppm) □ TOV (ppm) 100 200 300 400; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Brown **Sand and Gravel FILL** brick pieces moist Brown	TP	1		NA						Submitted for PAH and metals/inorganics analysis
	0.3 **Clayey Silt FILL** trace sand, trace gravel Grey	TP	2		NA						
	0.7 **CLAYEY SILT** trace sand, trace gravel	TP	3		NA	1 2					Submitted for PHC analysis
	END OF TEST PIT 2.3										

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▽ No freestanding groundwater measured in open borehole on completion of drilling.

RECORD OF TEST PIT No. TP 19-4

wood.

Project Number:	TOR190020	Drilling Location:	25 Rutherford Road	Logged by:	JD
Project Client:	City of Brampton	Drilling Method:	Excavation	Compiled by:	PR
Project Name:	Supplemental Phase Two ESA	Drilling Machine:		Reviewed by:	SD
Project Location:	25 Rutherford Road South, Brampton, Ontario	Date Started:	Sep 12, 19	Date Completed: Sep 12, 19	Revision No.: 0, 11/4/19

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING		COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION Approximate Geodetic Ground Surface Elevation:	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: ▲ COV (LEL) ■ TOV (LEL) 2 4 6 8; △ COV (ppm) □ TOV (ppm) 100 200 300 400; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Brown **Sand and Gravel FILL** moist	TP	1		NA						
	0.3 Brown **Sand FILL** moist	TP	2		NA						Submitted for metals/inorganics and PAH analysis
	1.1 Grey / Brown **CLAYEY SILT** trace to some sand, trace gravel	TP	3		NA	1					Submitted for VOC analysis
		TP	4		NA						
	2.2 **END OF TEST PIT**					2					

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▽ No freestanding groundwater measured in open borehole on completion of drilling.

RECORD OF TEST PIT No. TP 19-8

wood.

Project Number:	TOR190020	Drilling Location:	25 Rutherford Road	Logged by:	JD
Project Client:	City of Brampton	Drilling Method:	Excavation	Compiled by:	PR
Project Name:	Supplemental Phase Two ESA	Drilling Machine:		Reviewed by:	SD
Project Location:	25 Rutherford Road South, Brampton, Ontario	Date Started:	Sep 12, 19	Date Completed: Sep 12, 19	Revision No.: 0, 11/4/19

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING		COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION Approximate Geodetic Ground Surface Elevation:	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: ▲ COV (LEL) ■ TOV (LEL) 2 4 6 8; △ COV (ppm) □ TOV (ppm) 100 200 300 400; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Brown **Sand and Gravel FILL** moist	TP	1		NA						Submitted for metals/inorganics, PHC, and PAH analysis
	Grey / Brown 0.7 **CLAYEY SILT** trace sand, trace gravel	TP	2		NA	1					Submitted for EC, PHC analysis
		TP	3		NA	2					
	END OF TEST PIT 2.3										

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▽ No freestanding groundwater measured in open borehole on completion of drilling.

APPENDIX C
Remediation

Remediation

This Appendix provides an overview of the remedial actions undertaken in 2020 during completion of the Phase Two Environmental Site Assessment (ESA) at 25 Rutherford Road South, Brampton, Ontario, herein referred to as “the Site”.

Based on the results of the soil investigation completed as part of the Phase Two ESA, an area of surface soil was identified that required further action through remedial excavation.

Remedial actions were completed at the Site with the primary objective of removing soil with elevated pH and concentrations of select COCs (metals) in surface soil (soil above 1.5 m below ground surface [bgs]). These COCs exceed the selected MECP Table 3 SCS for residential / parkland / institutional property use and medium / fine textured soil.

In order to achieve the primary objective, the following scope of work was executed:

- Directing the excavation and segregation of soil for off-site disposal;
- Collecting soil samples from the completed excavation for field screening/logging and submitting selected samples for laboratory analysis of one or more applicable parameters in accordance with a quality assurance / quality control (QA/QC) program;
- Off-site disposal of soil exceeding the selected MECP Table 3 SCSs;
- Backfilling the excavation with imported backfill material.

The scope of work was executed between October 14 and December 15, 2020.

Granular material brought to the Phase Two Property as backfill, is discussed in Appendix E.

1. Remedial Actions

1.1. Soil Excavation

Four (4) excavations (EX-1, EX-2, EX-3, and EX-4) were completed using a Caterpillar 350 L excavator operated by RAFAT General Contractor Inc. of Bolton, Ontario under the direction of SNC-Lavalin personnel. The excavation location and limits are shown on Figure C.1. Excavation sampling locations on the final excavation limits are shown in Figures C.2 to C.8.

Excavations, EX-1, EX-2, and EX-4 were completed to remove surface soil outside acceptable pH range of the MECP Table 3 SCS, to a depth of 1.0 m bgs. Excavation EX-3 was completed to remove surface soil exceeding the MECP Table 3 SCS for pH, and total metals (antimony, arsenic, barium, beryllium, boron, cadmium, chromium total, cobalt, copper, nickel, thallium, vanadium, and zinc), ranging to a depth of 1.5 mbgs.

The following table summarizes the details of the excavation and the quantity of soil disposed off-Site from the excavations:

Excavation ID	Description	Area (m^2)	Maximum Depth (m bgs)	Soil Description		Volume of Soil Disposed Off-Site (m^3)
				Floor	Side Wall	
EX-1	Surface soil exceedances at	703	0.8 - 1.0	Silty Clay	Gravelly, sandy silt and/or loose sand	624

Excavation ID	Description	Area (m^2)	Maximum Depth (m bgs)	Soil Description		Volume of Soil Disposed Off-Site (m^3)
				Floor	Side Wall	
	BH-301, BH-514, and BH-101					
EX-2	Surface soil exceedances at BH-305	545	0.8	Silty Clay	Sand and gravel / sandy silt with clay	436
EX-3	Surface soil exceedances at BH-306B and BH-508	295	1.5	Silty clay	Sandy silt with clay	443
EX-4	Surface soil exceedances at BH-504 and BH-501	525	0.8	Clayey silt with trace sand and gravel	Silty clay / silty sand with trace gravel	420
					Total	1,923

Note: m bgs – metres below ground surface

A total of approximately 1,923 m^3 or 5,161 tonnes of soil was removed from all four excavations.

No soil was treated on-Site. No excavated soil was re-used on-Site.

1.2. Groundwater Remediation

No groundwater removal or groundwater treatment activities were completed at the Site during the work program.

1.3. Sediment Remediation

There are no water bodies on or adjacent to the Site and thus no sediment is present at the Site.

1.4. Permits for Discharge and Disposal of Soil, Groundwater or Sediment

As discussed in the body of the report, analytical results for the soil sample submitted for Ontario Regulation (O. Reg.) 347. Excavated soils were disposed off-site at the MECP licensed Trillium Recovery (2019) LTD facility in Toronto, Ontario. No permits were required for disposal of soil generated as part of the remedial actions.

1.5. Contaminants Introduced During Remediation

The imported fill used to backfill the excavations at the Site, was ¾" crushed stone. The coarse material used to backfill the site was intended to prevent introduction of contaminants during backfilling of the remedial excavation. Further discussion of soil brought to the Phase Two Property is provided in Appendix E.

No contaminants were introduced to the property during remediation and consequently, it was not necessary to establish background conditions or to a establish monitoring well network to assess contaminants introduced to the property.

2. Free-Flowing Product

No free-flowing product or light non-aqueous phase liquid (LNAPL) was observed during the remedial excavation work.

3. Confirmation Sampling and Analysis

3.1.1. Excavation Sampling

Soil samples were collected from the walls and floors of the completed excavation using a hand trowel to document soil conditions at the limits of the excavations.

Recovered samples were divided into two (2) portions: the first for possible laboratory analysis and second for field logging/screening. The portion retained for possible laboratory analysis was bottled in laboratory-supplied sampling containers and placed in a cooler with ice. Soil samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers. The second portion was placed in a sealable sample bag for field logging/screening. Samples were inspected and logged for soil type, moisture, colour, structure, texture and visual evidence of impact. Headspace vapours were screened with an RKI Eagle 2 organic vapour meter (OVM) operated in methane elimination mode and calibrated in the field to hexane standards, respectfully.

Laboratory analysis of soil samples was completed by AGAT Laboratories (AGAT Labs) of Mississauga, Ontario. AGAT Labs' Mississauga facility is accredited by the Standards Council of Canada (SCC).

Verification samples (including field duplicate samples) were collected from the completed walls and floors of the excavations and were submitted to AGAT Labs for laboratory analysis as summarized below.

Excavation ID	Area (m^2)	Maximum Depth (m bgs)	No. of Samples Submitted		Parameters Analysed
			Side Walls	Floor	
EX-1	703	1.0	31	18	pH
EX-2	545	0.8	16	8	pH
EX-3	295	1.5	8	5	pH, metals and inorganics
EX-4	525	0.8	8	6	pH

This sampling frequency meets or exceeds the minimum confirmation sampling requirements for excavation described in Table 3 of O. Reg. 153/04.

Soil samples submitted for analysis were selected based on OVM readings, visual evidence of impact, depths of interest based on results of previous investigation (e.g. depths of known exceedances) and/or to provide spatial coverage of excavation walls and floors. Samples for laboratory analysis were placed in coolers containing ice and delivered under chain of custody to AGAT Labs by courier or directly.

In addition to the samples summarized above, one (1) field duplicate sample from the floors or walls of the completed excavations was submitted for every 10 samples collected, to AGAT Labs for laboratory analysis of the same parameters as the original sample.

Soil sampling locations on the floors and walls of the excavations are shown in Figures C.2 to C.8.

3.1.2. Excavation Limits

Analytical results for excavation samples representative of soil conditions at the final limits of the completed excavation are summarized in Table C.1 and Figures C.2 to C.8 and compared to the MECP Table 3 SCS. Excavation floor and wall sample locations and depths are also shown in Figures C.1 to

C.6. Post-remediation generalized geological cross-sections with soil analytical results for pH and select metals and inorganics are shown in Figures C.7 and C.8. Soil samples collected from interim margins of the excavation are identified as “removed” in analytical tables. Laboratory Certificates of Analysis for soil samples collected from the final excavation limits, as well as interim samples (removed by excavation), are provided in Appendix G.

OVM readings were collected prior to sampling, where applicable, and no reading was recording throughout the site greater than 5ppm.

3.1.2.1. Metals and Inorganics

Analytical results for metals and inorganics in soil collected as part of the remedial excavation are shown in Table C.1 and Figures C.2 to C.8.

Walls and floor exceedances encountered during the remediation program were excavated and removed from the Site. Concentrations of metals and inorganics in analysed soil samples collected from the remaining walls and floors of excavations; EX-1, EX-2, EX-3, and EX-4 were less than the MECP Table 3 SCS.

Soil samples that exceeded the Table 3 SCS, on Figures C.3 and C.5, that remain on the south walls of EX-1 and EX-3, are outside of the property boundary of the site, as shown on Figure C.1.

Labratory certificates of Analysis are provided in Appendix A.

3.1.3. Quality Assurance and Quality Control

Field investigations were carried out in accordance with O. Reg. 153/04 (as amended), SNC Lavalin preferred operating procedures (POPs), and the sampling and analysis plan (Appendix A). QA/QC measures were also implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis as described in Section 5.15 in the body of the report.

Analytical results of excavation soil field duplicate and/or field blank samples are presented in Tables C.1 and C.2.

The results of laboratory QA/QC analyses are presented in the Laboratory Certificates of Analysis (Appendix G). The analyses included instrument and extraction surrogate recovery, method blanks, matrix duplicates, matrix spikes and laboratory control samples.

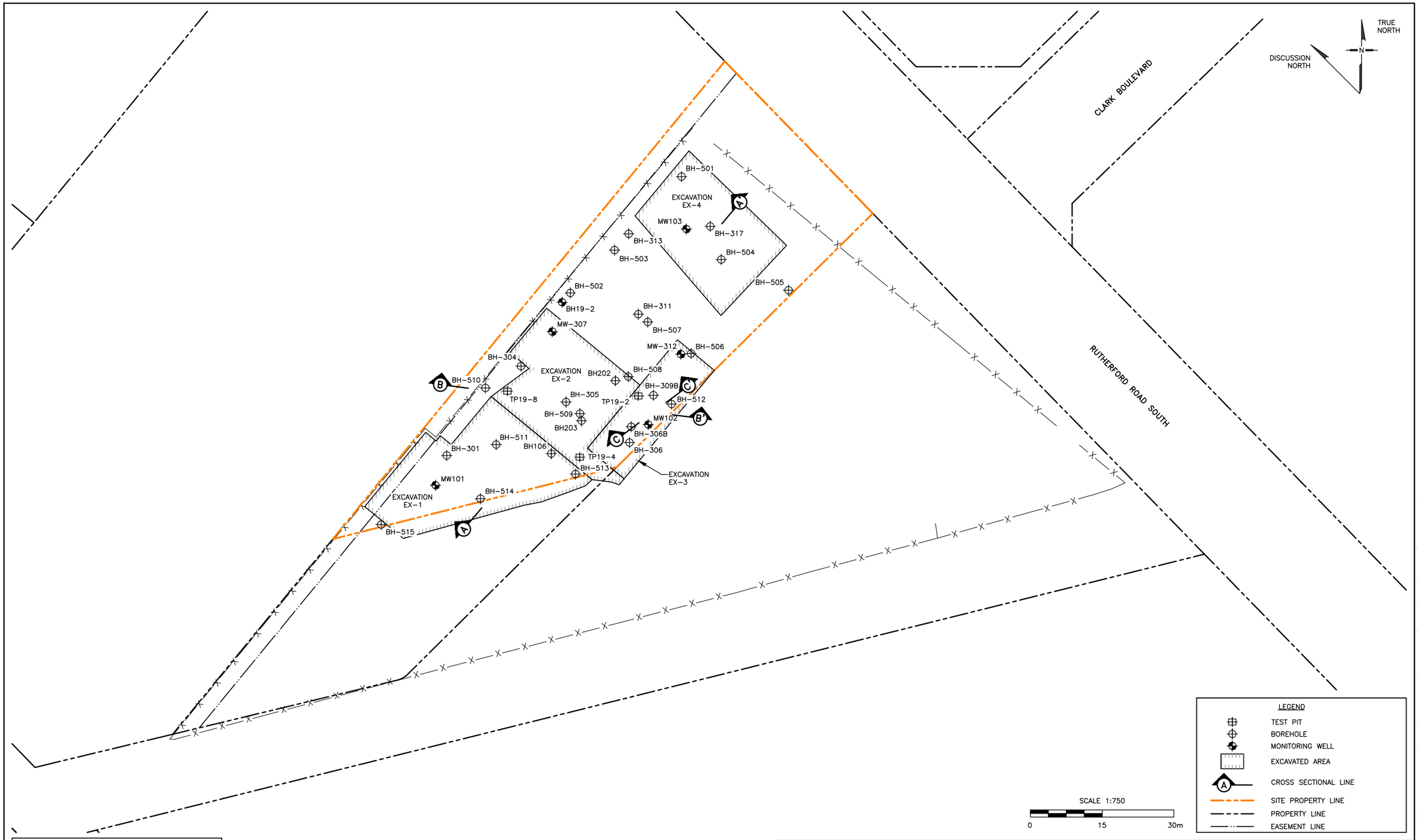
Analytical results for the laboratory and field duplicate soil samples generally showed good correlation to their corresponding analytical pairs. Calculable relative percent difference (RPD) of analysed parameters between soil samples and their corresponding field duplicate sample were below applicable control limits, with the exception of EX-2-16 and its duplicate pair. A difference in pH value may be a result of heterogeneity in soil. Since neither the sample or its duplicate were outside of the SCS acceptable range, the results of the soil sampling are considered acceptable. The results of the RPD calculations for soil field duplicate samples are presented in Tables C.2

Results of QA/QC analyses suggest that field sampling/handling protocols were acceptable.

3.1.4. Groundwater Sampling

Groundwater contamination was not identified in the monitoring wells within the excavated area prior to remediation, therefore post-remedial groundwater sampling events were not conducted.

FIGURES



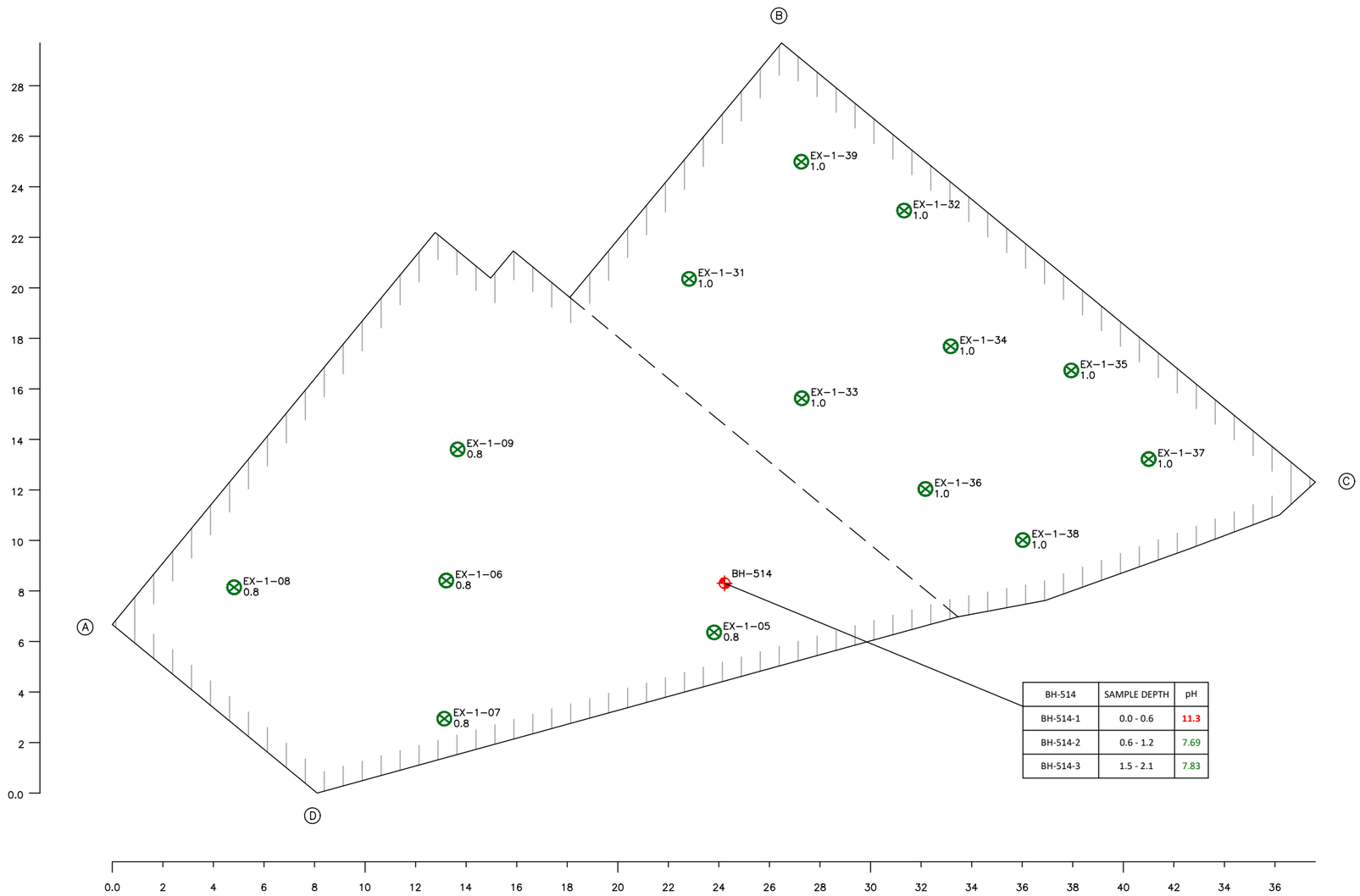
NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'CNL' : COULD NOT LOCATE
4. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON			Title: EXCAVATION LOCATION PLAN
Project No: 671835	Filename: 011FC1_671835	Date: AUGUST 2021	Dwg No: FIGURE C.1
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\011 (2021 RSC)\011FC1_671835.dwg



BH-514	SAMPLE DEPTH	pH
BH-514-1	0.0 - 0.6	11.3
BH-514-2	0.6 - 1.2	7.69
BH-514-3	1.5 - 2.1	7.83

LEGEND

- SUBMITTED SOIL SAMPLE
- MONITORING WELL
- INTERNAL WALL
- EXCAVATED AREA
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD

EX–1–07 IDENTIFICATION
0.8 DEPTH (m)

NOTE(S):
1. SCALE AND SAMPLE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. 'm' : METRES

SCALE 1:200
0 4 8m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: PLAN VIEW (FLOOR) OF EXCAVATION EX–1

Project No: 671835 | Filename: 011FC2_671835 | Date: AUGUST 2021 | Dwg No: FIGURE C.2

Drawn: AG | Verified: RHH | Project Manager: AY

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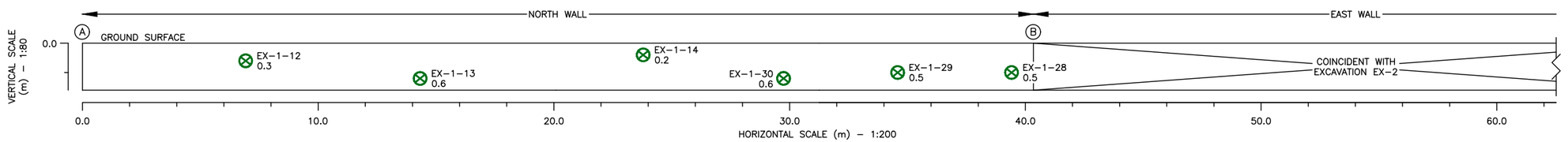

EX-1-21	SAMPLE DEPTH	pH
EX-1-21	0.5	10.0

EX-1-02	SAMPLE DEPTH	pH
EX-1-02	0.3	10.7

EX-1-04	SAMPLE DEPTH	pH
EX-1-04	0.2	11.2

LEGEND

- ⊗ SUBMITTED SOIL SAMPLE
- ⊗ ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ⊗ ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD

EX–1–12 IDENTIFICATION
0.3 DEPTH (m)

NOTE(S):
1. SCALE AND SAMPLE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

GENERAL NOTES:
1. 'm' : METRES

SCALE 1:200
0 4 8m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: CROSS SECTION (WALLS) OF EXCAVATION EX–1

Project No:	Filename:	Date:	Dwg No:
671835	011FC3_671835	AUGUST 2021	FIGURE C.3
Drawn: AG	Verified: RHH	Project Manager: AY	

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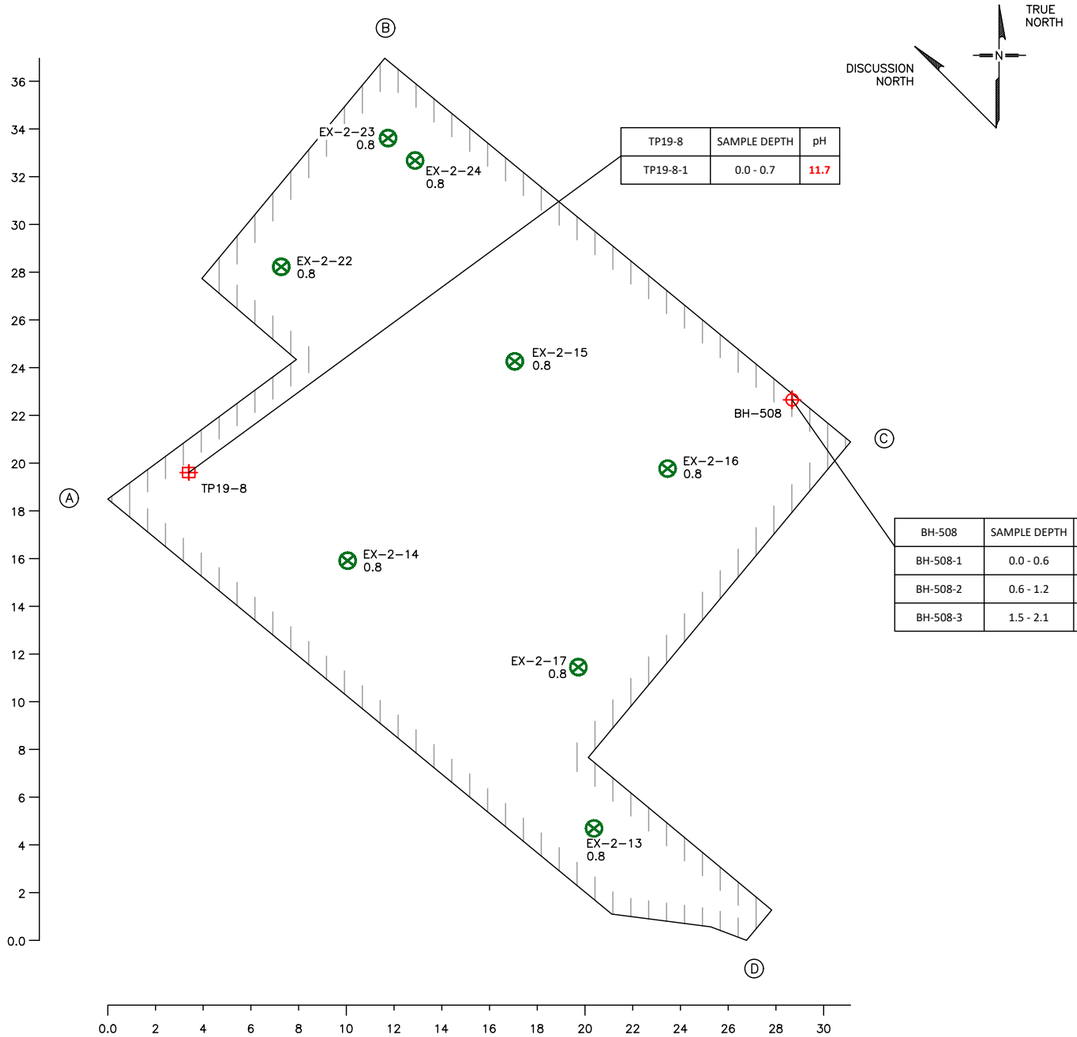


TP19-8	SAMPLE DEPTH	pH
TP19-8-1	0.0 - 0.7	11.7

BH-508	SAMPLE DEPTH	pH
BH-508-1	0.0 - 0.6	9.94
BH-508-2	0.6 - 1.2	7.31
BH-508-3	1.5 - 2.1	7.65

LEGEND

- SUBMITTED SOIL SAMPLE
- TEST PIT
- BOREHOLE
- EXCAVATED AREA
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD

EX–2–13 IDENTIFICATION
0.8 DEPTH (m)

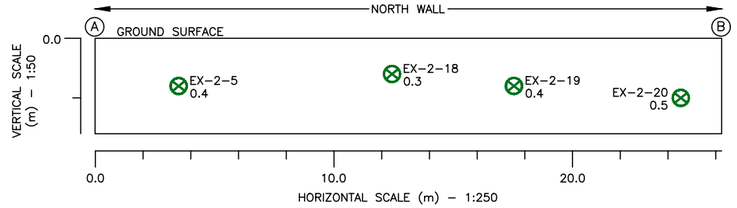
NOTE(S):
1. SCALE AND SAMPLE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

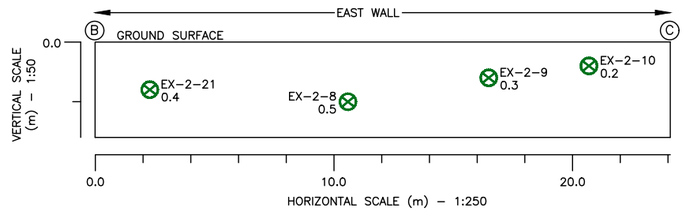
PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

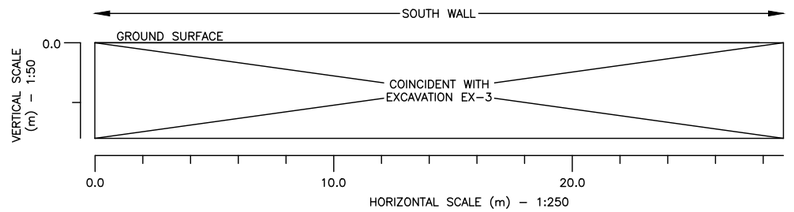
STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

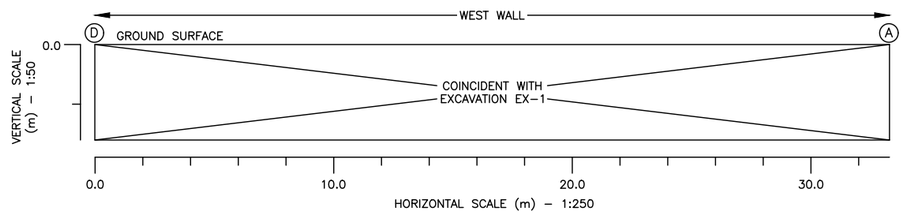
GENERAL NOTES:
1. '*' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
2. 'm' : METRES

SCALE 1:250
0 5 10m









SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: PLAN VIEW (FLOOR) AND CROSS SECTION (WALLS) OF EXCAVATION EX–2	
Project No: 671835	Filename: 011FC4_671835	Date: AUGUST 2021	Dwg No: FIGURE C.4
Drawn: AG	Verified: RHH	Project Manager: AY	

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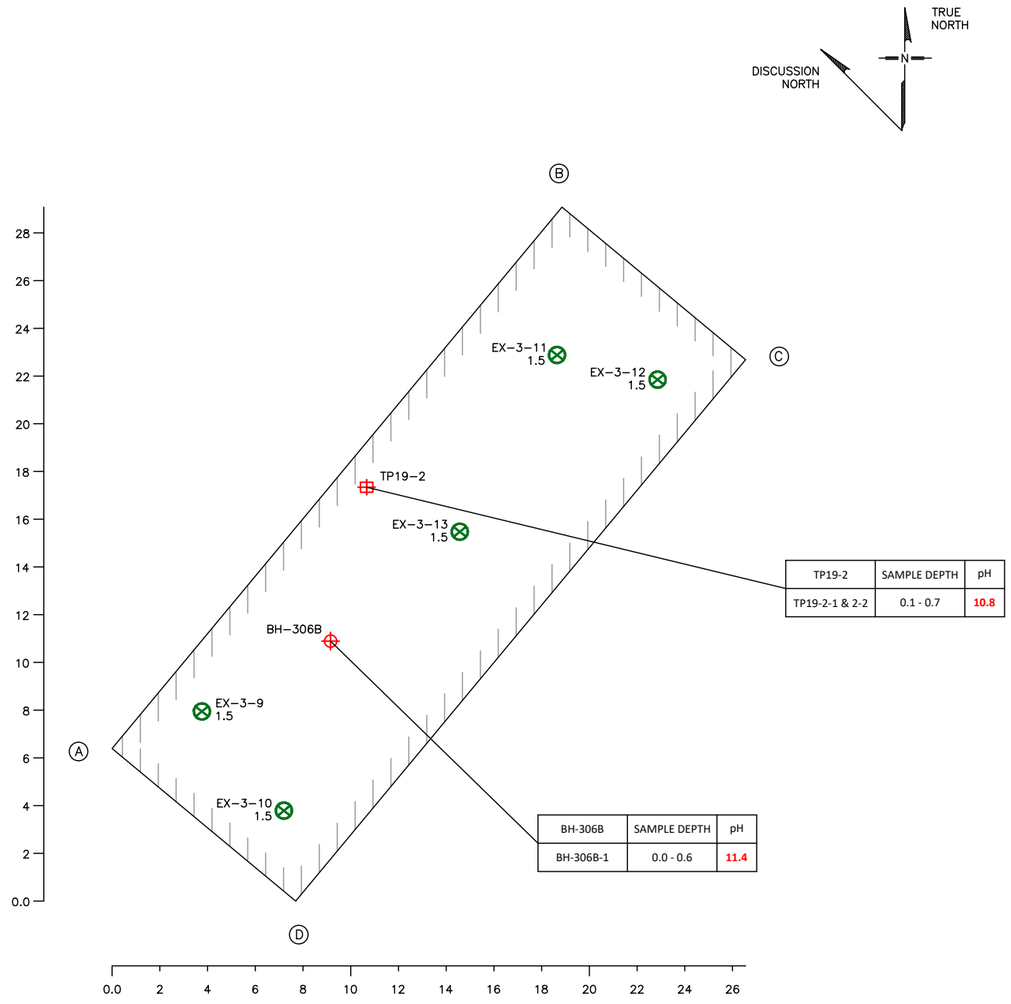


TP19-2	SAMPLE DEPTH	pH
TP19-2-1 & 2-2	0.1 - 0.7	10.8

BH-306B	SAMPLE DEPTH	pH
BH-306B-1	0.0 - 0.6	11.4

LEGEND

- SUBMITTED SOIL SAMPLE
- BOREHOLE
- TEST PIT
- EXCAVATED AREA
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD

EX–2–10 IDENTIFICATION
1.5 DEPTH (m)

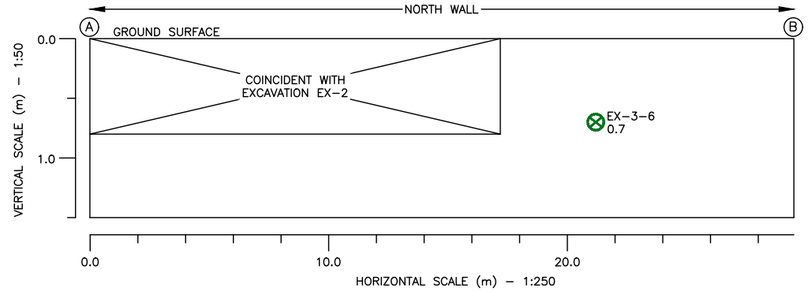
NOTE(S):
1. SCALE AND SAMPLE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

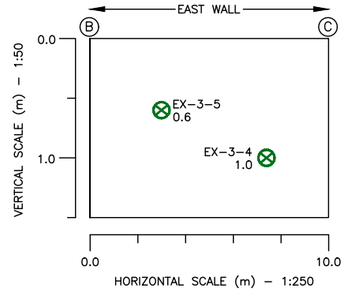
PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5–9)

STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON–POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

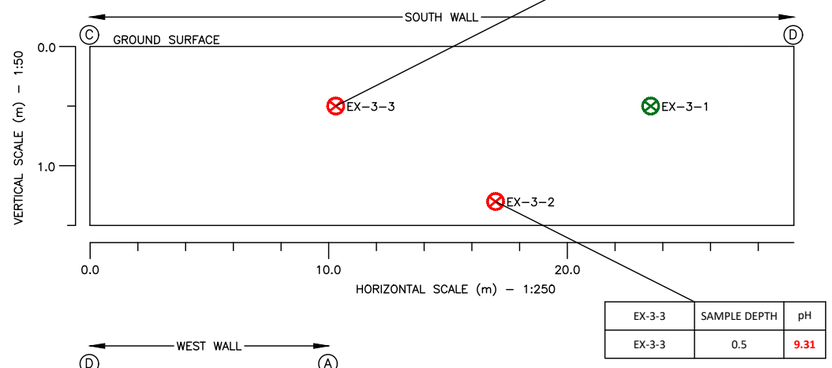
GENERAL NOTES:
1. '*' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
2. 'm' : METRES

SCALE 1:250
0 5 10m

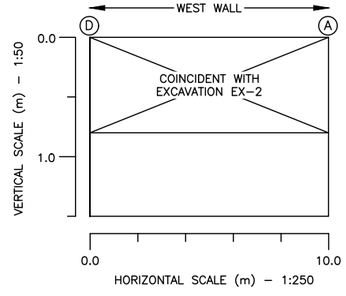




EX-3-3	SAMPLE DEPTH	pH
EX-3-3	0.5	9.31



EX-3-3	SAMPLE DEPTH	pH
EX-3-3	0.5	9.31



SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: PLAN VIEW (FLOOR) AND CROSS SECTION (WALLS) OF EXCAVATION EX–3	
Project No: 671835	Filename: 011FC5_671835	Date: AUGUST 2021	Dwg No: FIGURE C.5
Drawn: AG	Verified: RHH	Project Manager: AY	

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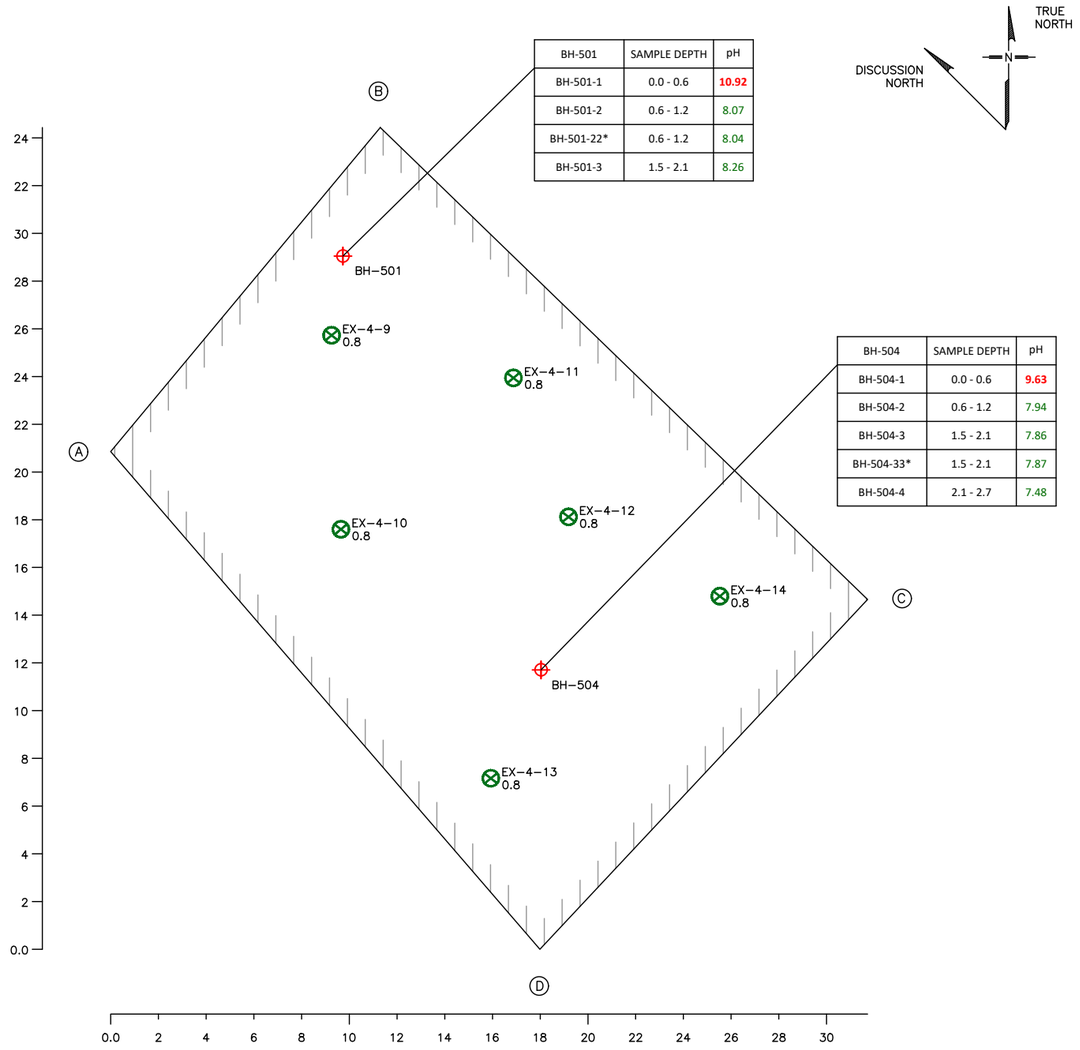


BH-501	SAMPLE DEPTH	pH
BH-501-1	0.0 - 0.6	10.92
BH-501-2	0.6 - 1.2	8.07
BH-501-22*	0.6 - 1.2	8.04
BH-501-3	1.5 - 2.1	8.26

BH-504	SAMPLE DEPTH	pH
BH-504-1	0.0 - 0.6	9.63
BH-504-2	0.6 - 1.2	7.94
BH-504-3	1.5 - 2.1	7.86
BH-504-33*	1.5 - 2.1	7.87
BH-504-4	2.1 - 2.7	7.48

LEGEND

- SUBMITTED SOIL SAMPLE
- BOREHOLE
- EXCAVATED AREA
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD

EX-4-13 IDENTIFICATION
0.8 DEPTH (m)

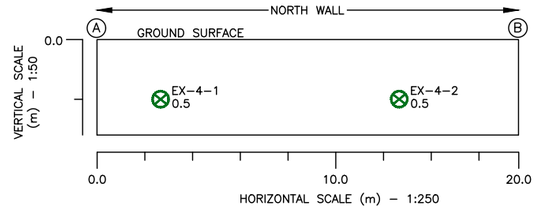
NOTE(S):
1. SCALE AND SAMPLE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

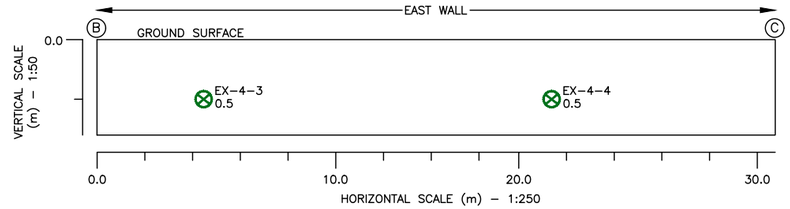
PARAMETERS	ABBREVIATION	STANDARDS
pH	–	(5-9)

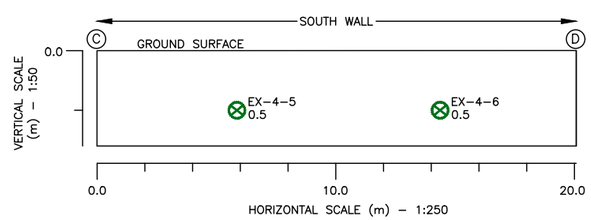
STANDARDS:
- TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/ PARKLAND/INSTITUTIONAL PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2011)

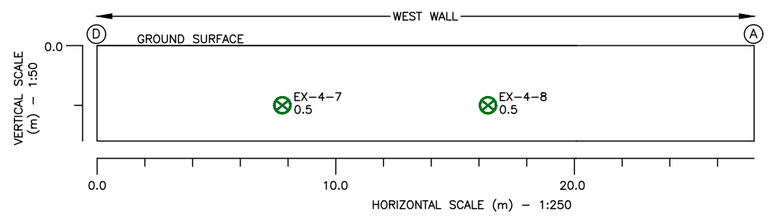
GENERAL NOTES:
1. '*' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
2. 'm' : METRES

SCALE 1:250
0 5 10m









SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON		Title: PLAN VIEW (FLOOR) AND CROSS SECTION (WALLS) OF EXCAVATION EX-4	
Project No: 671835	Filename: 011FC6_671835	Date: AUGUST 2021	Dwg No: FIGURE C.6
Drawn: AG	Verified: RHH	Project Manager: AY	

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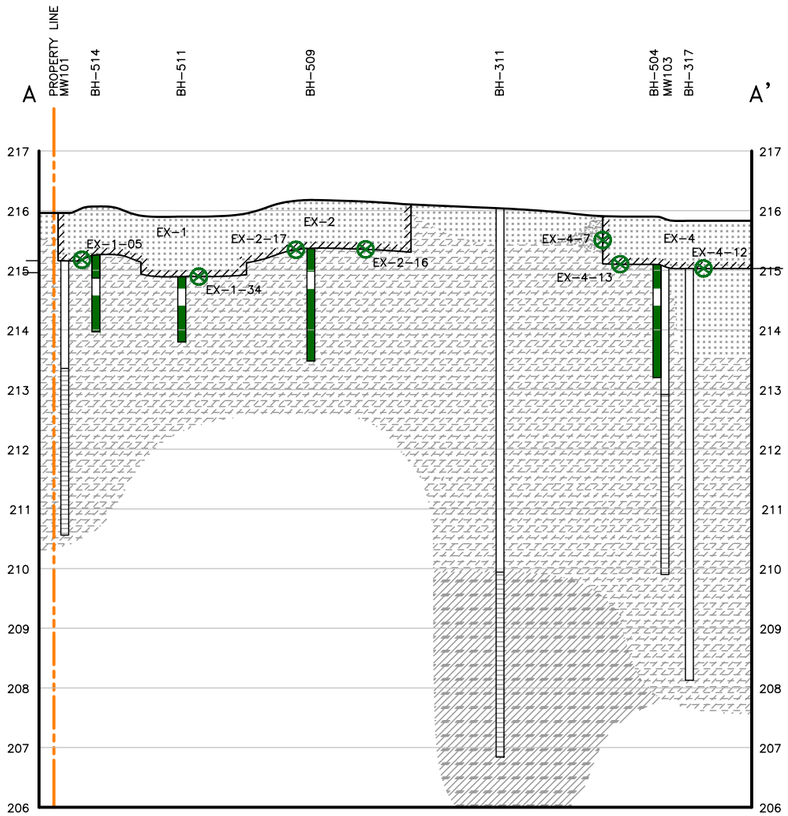

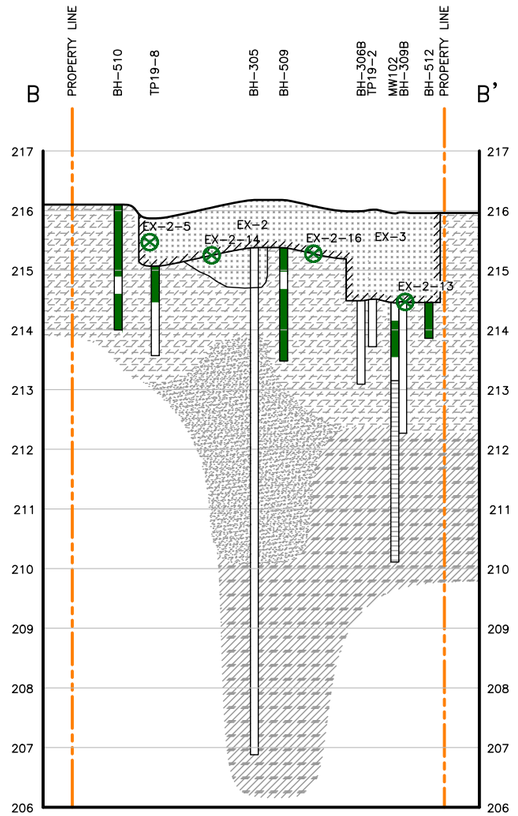

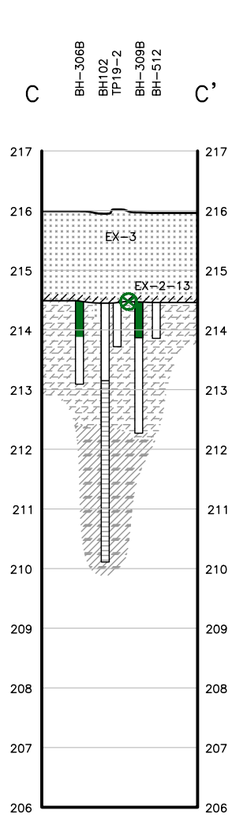

LEGEND

- BOREHOLE
- MONITORING WELL
- LOCATION WHERE SOIL SAMPLES ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- EXCAVATED AREA
- FILL
- SILTY CLAY, CLAYEY SILT
- SILTY SAND, SAND AND SILT
- SAND
- CLAY
- SHALE – TILL COMPLEX

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

VERTICAL SCALE 1:100

0 2 4m

SCALE 1:750

0 15 30m

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON, 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON

Title: POST-REMEDIATION GENERALIZED GEOLOGICAL CROSS SECTIONS (A–A', B–B' AND C–C') WITH SOIL ANALYTICAL RESULTS FOR pH

Project No:	Filename:	Date:	Dwg No:
671835	011FC7_671835	AUGUST 2021	FIGURE C.7
Drawn: AG	Verified: RHH	Project Manager: AY	

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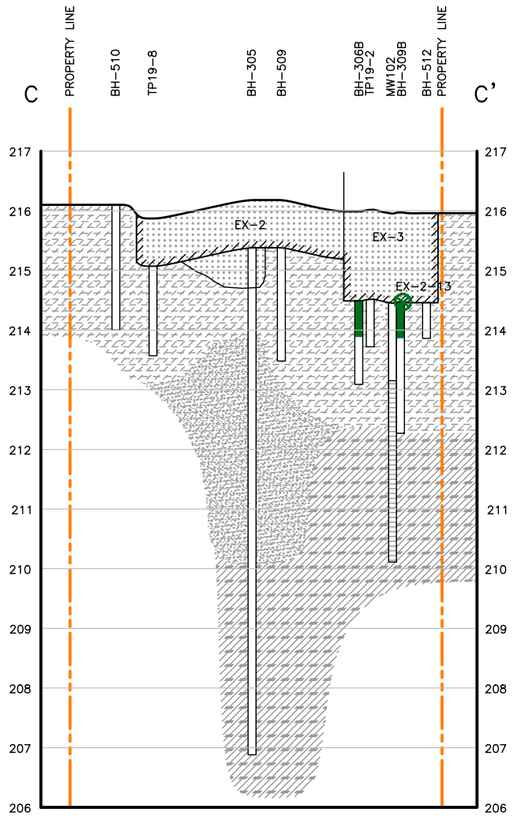

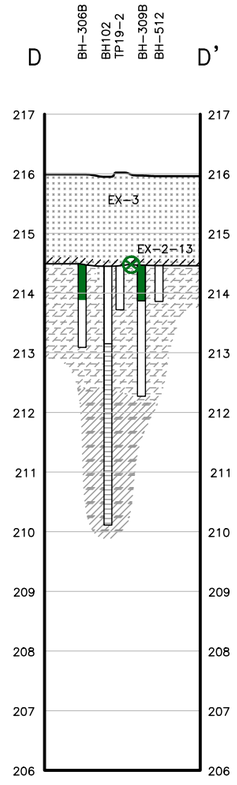

LEGEND

- BOREHOLE
- MONITORING WELL
- LOCATION WHERE SOIL SAMPLES ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED
- ANALYSED SAMPLE – ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS
- ANALYSED SAMPLE – AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)
- EXCAVATED AREA
- FILL
- SILTY CLAY, CLAYEY SILT
- SILTY SAND, SAND AND SILT
- SAND
- CLAY
- SHALE – TILL COMPLEX

NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

VERTICAL SCALE 1:100
0 2 4m

SCALE 1:750
0 15 30m

SNC·LAVALIN

Client/Location:
CITY OF BRAMPTON
25 RUTHERFORD ROAD SOUTH,
BRAMPTON, ON

Title:
POST-REMEDIATION GENERALIZED GEOLOGICAL CROSS SECTIONS (A-A', B-B' AND C-C') WITH SOIL ANALYTICAL RESULTS FOR METALS

Project No:	Filename:	Date:	Dwg No:
671835	011FC8_671835	AUGUST 2021	FIGURE C.8
Drawn: AG	Verified: RHH	Project Manager: AY	

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TABLES

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1
Laboratory Sample ID			Standard	1561840	1561841	1561842	1561843	1561844	1561845	1561846	1561847	1561848	1561849	1561850
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-1-01	EX-1-02	EX-1-03	EX-1-04	EX-1-05	EX-1-06	EX-1-07	EX-1-08	EX-1-09	EX-1-10	EX-1-100
Sampling Date (yyyy/mm/dd)				2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14
Depth Interval (mbgs)				0.7	0.3	0.5	0.2	0.8	0.8	0.8	0.8	0.8	0.4	0.4
Soil removed from site				No	No	No	No	No	No	No	No	No	No	No
Sample Location				South Wall	South Wall	South Wall	South Wall	Floor	Floor	Floor	Floor	Floor	West Wall	West Wall Duplicate of EX-1-10
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	6.95	**10.7**	7.30	**11.2**	7.02	7.38	7.28	7.11	7.02	7.96	8.01
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1
Laboratory Sample ID			Standard	1561851	1561852	1561853	1561854	1561856	1561857	1561858	1561859	1608546	1608556	1608548
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-1-11	EX-1-12	EX-1-13	EX-1-14	EX-1-15	EX-1-16	EX-1-17	EX-1-18	EX-1-19	EX-1-19A	EX-1-20
Sampling Date (yyyy/mm/dd)				2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/14	2020/10/26	2020/10/26	2020/10/26
Depth Interval (mbgs)				0.6	0.3	0.6	0.2	0.7	0.5	0.3	0.1	0.5	0.5	0.3
Soil removed from site				No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample Location				West Wall	North Wall	North Wall	North Wall	East Wall	East Wall	East Wall	East Wall	North Wall	North Wall Duplicate of EX-1-19	North Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	7.60	7.88	7.65	8.27	7.58	7.63	**11.3**	7.70	**9.43**	8.68	**11.1**
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1
Laboratory Sample ID			Standard	1608549	1608550	1608551	1608552	1608553	1608554	1608555	1767868	1767870	1767871	1767878
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-1-21	EX-1-22	EX-1-23	EX-1-24	EX-1-25	EX-1-26	EX-1-27	EX-1-28	EX-1-29	EX-1-30	EX-1-300
Sampling Date (yyyy/mm/dd)				2020/10/26	2020/10/26	2020/10/26	2020/10/26	2020/10/26	2020/10/26	2020/10/26	2020/12/02	2020/12/02	2020/12/02	2020/12/02
Depth Interval (mbgs)				0.5	0.5	0.7	0.8	0.8	0.8	0.8	0.5	0.5	0.6	0.6
Soil removed from site				No	No	No	Yes	Yes	Yes	Yes	No	No	No	No
Sample Location				South Wall	South Wall	South Wall	Floor	Floor	Floor	Floor	North Wall	North Wall	North Wall	North Wall
Parameter	RDL	Units												Duplicate of EX-1-30
General Chemistry														
pH[2]	-	pH	(5-9)	**10.0**	8.91	8.04	7.59	**10.5**	**9.16**	8.53	7.54	7.34	7.50	7.50
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

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"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-1	EX-2
Laboratory Sample ID			Standard	1767872	1767873	1767874	1767875	1767876	1767879	1767877	1767881	1767882	1767880	1576974
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-1-31	EX-1-32	EX-1-33	EX-1-34	EX-1-35	EX-1-355	EX-1-36	EX-1-37	EX-1-38	EX-1-39	EX-2-1
Sampling Date (yyyy/mm/dd)				2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/12/02	2020/10/16
Depth Interval (mbgs)				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4
Soil removed from site				No	No	No	No	No	No	No	No	No	No	Yes
Sample Location				Floor	Floor	Floor	Floor	Floor	Floor Duplicate of EX-1-35	Floor	Floor	Floor	Floor	West Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	7.24	7.05	6.78	7.44	7.38	7.33	7.31	7.05	6.93	7.65	**10.2**
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

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na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2
Laboratory Sample ID			Standard	1576975	1576976	1576977	1576978	1576979	1576980	1576981	1576982	1576983	1576984	1576985
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-2-2	EX-2-3	EX-2-4	EX-2-5	EX-2-6	EX-2-7	EX-2-8	EX-2-9	EX-2-10	EX-2-11	EX-2-12
Sampling Date (yyyy/mm/dd)				2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16
Depth Interval (mbgs)				0.3	0.5	0.1	0.4	0.2	0.7	0.5	0.3	0.2	0.3	0.2
Soil removed from site				Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No
Sample Location				West Wall	West Wall	West Wall	North Wall	North Wall	North Wall	East Wall	East Wall	East Wall	South Wall	South Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	**11.4**	8.35	7.41	7.49	**11.6**	**10.0**	8.46	8.26	8.19	8.06	8.04
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

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BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2	EX-2
Laboratory Sample ID			Standard	1576986	1576987	1576988	1576989	1576990	1576991	1576992	1608557	1608558	1608559	1608560
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-2-13	EX-2-14	EX-2-14A	EX-2-15	EX-2-16	EX-2-16A	EX-2-17	EX-2-18	EX-2-19	EX-2-20	EX-2-21
Sampling Date (yyyy/mm/dd)				2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/16	2020/10/26	2020/10/26	2020/10/26	2020/10/26
Depth Interval (mbgs)				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.3	0.4	0.5	0.4
Soil removed from site				No	No	No	No	No	No	No	No	No	No	No
Sample Location				Floor	Floor	Floor Duplicate of EX-2-14	Floor	Floor	Floor Duplicate of EX-2-16	Floor	West Wall	North Wall	North Wall	East Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	7.94	7.88	7.98	6.94	7.81	8.41	8.32	7.74	7.80	7.71	7.56
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-

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[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-2	EX-2	EX-2	EX-2	EX-3	EX-3	EX-3	EX-3	EX-3	EX-3	EX-3
Laboratory Sample ID			Standard	1608561	1608562	1608563	1608564	1576994	1576995	1576996	1576997	1576998	1576999	1577000
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-2-22	EX-2-23	EX-2-24	EX-2-24A	EX-3-1	EX-3-2	EX-3-3	EX-3-4	EX-3-5	EX-3-6	EX-3-7
Sampling Date (yyyy/mm/dd)				2020/10/26	2020/10/26	2020/10/26	2020/10/26	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19
Depth Interval (mbgs)				0.8	0.8	0.8	0.8	0.5	1.3	0.5	1.0	0.6	0.7	0.4
Soil removed from site				No	No	No	No	No	No	No	No	No	No	Yes
Sample Location				Floor	Floor	Floor	Floor Duplicate of EX-2-24	South Wall	South Wall	South Wall	East Wall	East Walll	North Wall	North Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	7.80	7.68	7.25	6.96	7.79	**9.40**	**9.31**	7.90	7.75	7.48	7.23
Total Metals														
Antimony	0.8	µg/g	7.5	-	-	-	-	<	<	<	<	<	<	<
Arsenic	1	µg/g	18	-	-	-	-	3	2	3	3	5	3	5
Barium	2	µg/g	390	-	-	-	-	39	22	58	58	74	54	91
Beryllium	0.5	µg/g	5	-	-	-	-	<	<	0.5	0.5	0.6	<	0.8
Boron	5	µg/g	120	-	-	-	-	6	6	8	8	9	8	8
Cadmium	0.5	µg/g	1.2	-	-	-	-	<	<	<	<	<	<	<
Chromium (total)	5	µg/g	160	-	-	-	-	13	9	18	19	23	18	26
Cobalt	0.5	µg/g	22	-	-	-	-	7.4	4.0	8.4	8.9	11.9	7.7	12.0
Copper	1	µg/g	180	-	-	-	-	18	14	19	21	26	19	22
Lead	1	µg/g	120	-	-	-	-	7	6	9	10	11	9	19
Molybdenum	0.5	µg/g	6.9	-	-	-	-	<	<	<	<	<	<	0.6
Nickel	1	µg/g	130	-	-	-	-	13	7	15	17	22	14	21
Selenium	0.4	µg/g	2.4	-	-	-	-	<	<	<	0.5	0.5	0.4	0.8
Silver	0.2	µg/g	25	-	-	-	-	<	<	<	<	<	<	<
Thallium	0.4	µg/g	1	-	-	-	-	<	<	<	<	<	<	<
Uranium	0.5	µg/g	23	-	-	-	-	<	<	0.5	0.6	0.6	0.6	1.1
Vanadium	1	µg/g	86	-	-	-	-	22	17	29	28	34	28	42
Zinc	5	µg/g	340	-	-	-	-	39	27	48	57	63	46	77

Footnotes:

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"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-3	EX-3	EX-3	EX-3	EX-3	EX-3	EX-3	EX-3	EX-4	EX-4	EX-4
Laboratory Sample ID			Standard	1577001	1577002	1577003	1577004	1577005	1577006	1577007	1577008	1838160	1838161	1838162
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-3-8	EX-3-9	EX-3-10	EX-3-10A	EX-3-11	EX-3-12	EX-3-13	EX-3-13A	EX-4-1	EX-4-101	EX-4-2
Sampling Date (yyyy/mm/dd)				2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/10/19	2020/12/15	2020/12/15	2020/12/15
Depth Interval (mbgs)				0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.5	0.5	0.5
Soil removed from site				Yes	No	No	No	No	No	No	No	No	No	No
Sample Location				West Wall	Floor	Floor	Floor Duplicate of EX-3-10	Floor	Floor	Floor	Floor Duplicate of EX-3-13	North Wall	North Wall Duplicate of EX-4-1	North Wall
Parameter	**RDL**	**Units**												
General Chemistry														
pH[2]	-	pH	(5-9)	7.15	6.87	6.75	6.69	7.76	7.76	7.76	7.72	7.48	7.48	7.66
Total Metals														
Antimony	0.8	µg/g	7.5	<	<	<	<	<	<	<	<	-	-	-
Arsenic	1	µg/g	18	5	4	5	5	5	1	6	6	-	-	-
Barium	2	µg/g	390	91	104	107	114	61	18	73	72	-	-	-
Beryllium	0.5	µg/g	5	0.8	0.8	0.9	0.9	0.6	<	0.8	0.7	-	-	-
Boron	5	µg/g	120	8	10	9	7	10	5	11	11	-	-	-
Cadmium	0.5	µg/g	1.2	<	<	<	<	<	<	<	<	-	-	-
Chromium (total)	5	µg/g	160	26	29	30	31	21	8	27	26	-	-	-
Cobalt	0.5	µg/g	22	12.3	11.3	12.3	11.0	10.9	3.7	13.7	13.4	-	-	-
Copper	1	µg/g	180	19	18	15	16	28	16	33	33	-	-	-
Lead	1	µg/g	120	17	17	14	13	10	5	10	11	-	-	-
Molybdenum	0.5	µg/g	6.9	0.5	0.5	0.5	0.5	<	<	<	<	-	-	-
Nickel	1	µg/g	130	20	21	22	22	22	6	28	27	-	-	-
Selenium	0.4	µg/g	2.4	0.7	0.5	0.9	0.9	<	<	<	0.5	-	-	-
Silver	0.2	µg/g	25	<	<	<	<	<	<	<	<	-	-	-
Thallium	0.4	µg/g	1	<	<	<	<	<	<	<	<	-	-	-
Uranium	0.5	µg/g	23	0.9	1.3	1.4	1.7	0.8	<	1.1	1.1	-	-	-
Vanadium	1	µg/g	86	43	44	49	47	30	16	40	39	-	-	-
Zinc	5	µg/g	340	82	95	95	97	61	24	61	60	-	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

			Sample Location	Table 3[1]	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4	EX-4
			Laboratory Sample ID	Standard	1838163	1838159	1838164	1838165	1838166	1838167	1838168	1838169	1838170	1838171	1838172
			SNC-Lavalin Sample ID	R/P/I_FG NPG	EX-4-3	EX-4-4	EX-4-5	EX-4-6	EX-4-7	EX-4-8	EX-4-9	EX-4-99	EX-4-10	EX-4-11	EX-4-12
			Sampling Date (yyyy/mm/dd)		2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15	2020/12/15
			Depth Interval (mbgs)		0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8
			Soil removed from site		No	No	No	No	No	No	No	No	No	No	No
			Sample Location		East Wall	East Wall	South Wall	South Wall	West Wall	West Wall	Floor	Floor Duplicate of EX-4-9	Floor	Floor	Floor
Parameter	**RDL**	**Units**													
General Chemistry															
pH[2]	-	pH	(5-9)	7.73	7.61	7.73	7.67	7.65	7.67	7.75	7.70	7.37	7.38	7.43	
Total Metals															
Antimony	0.8	µg/g	7.5	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	1	µg/g	18	-	-	-	-	-	-	-	-	-	-	-	
Barium	2	µg/g	390	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	0.5	µg/g	5	-	-	-	-	-	-	-	-	-	-	-	
Boron	5	µg/g	120	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	0.5	µg/g	1.2	-	-	-	-	-	-	-	-	-	-	-	
Chromium (total)	5	µg/g	160	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	0.5	µg/g	22	-	-	-	-	-	-	-	-	-	-	-	
Copper	1	µg/g	180	-	-	-	-	-	-	-	-	-	-	-	
Lead	1	µg/g	120	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	0.5	µg/g	6.9	-	-	-	-	-	-	-	-	-	-	-	
Nickel	1	µg/g	130	-	-	-	-	-	-	-	-	-	-	-	
Selenium	0.4	µg/g	2.4	-	-	-	-	-	-	-	-	-	-	-	
Silver	0.2	µg/g	25	-	-	-	-	-	-	-	-	-	-	-	
Thallium	0.4	µg/g	1	-	-	-	-	-	-	-	-	-	-	-	
Uranium	0.5	µg/g	23	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	1	µg/g	86	-	-	-	-	-	-	-	-	-	-	-	
Zinc	5	µg/g	340	-	-	-	-	-	-	-	-	-	-	-	

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.1: Soil Analytical Results - pH and Metals
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location			Table 3[1]	EX-4	EX-4
Laboratory Sample ID			Standard	1838173	1838174
SNC-Lavalin Sample ID			R/P/I_FG NPG	EX-4-13	EX-4-14
Sampling Date (yyyy/mm/dd)				2020/12/15	2020/12/15
Depth Interval (mbgs)				0.8	0.8
Soil removed from site				No	No
Sample Location				Floor	Floor
Parameter	**RDL**	**Units**			
General Chemistry					
pH[2]	-	pH	(5-9)	7.22	7.21
Total Metals					
Antimony	0.8	µg/g	7.5	-	-
Arsenic	1	µg/g	18	-	-
Barium	2	µg/g	390	-	-
Beryllium	0.5	µg/g	5	-	-
Boron	5	µg/g	120	-	-
Cadmium	0.5	µg/g	1.2	-	-
Chromium (total)	5	µg/g	160	-	-
Cobalt	0.5	µg/g	22	-	-
Copper	1	µg/g	180	-	-
Lead	1	µg/g	120	-	-
Molybdenum	0.5	µg/g	6.9	-	-
Nickel	1	µg/g	130	-	-
Selenium	0.4	µg/g	2.4	-	-
Silver	0.2	µg/g	25	-	-
Thallium	0.4	µg/g	1	-	-
Uranium	0.5	µg/g	23	-	-
Vanadium	1	µg/g	86	-	-
Zinc	5	µg/g	340	-	-

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 3 Standard

[1] Table 3 full depth generic site condition standards in a non-potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2011)

[2] Acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE C.2: Field Duplicate QAQC Results
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	EX-1-10	EX-1-10	RPD	EX-1-30	EX-1-30	RPD	EX-1-35	EX-1-35	RPD	EX-2-14	EX-2-14	RPD
Laboratory Sample ID			1561849	1561850		1767871	1767878		1767876	1767879		1576987	1576988	
SNC-Lavalin Sample ID		Limit	EX-1-10	EX-1-100		EX-1-30	EX-1-300		EX-1-35	EX-1-355		EX-2-14	EX-2-14A	
Sampling Date (yyyy/mm/dd)			2020/10/14	2020/10/14		2020/12/02	2020/12/02		2020/12/02	2020/12/02		2020/10/16	2020/10/16	
Depth Interval (mbgs)			0.4	0.4		0.6	0.6		1.0	1.0		0.8	0.8	
				Duplicate of			Duplicate of			Duplicate of			Duplicate of	
Parameter	**Units**			EX-1-10			EX-1-30			EX-1-35			EX-2-14	
General Chemistry														
pH	pH	0.6 [2]	7.96	8.01	0.05	7.5	7.5	0.00	7.38	7.33	0.05	7.88	7.98	0.10
Total Metals														
Antimony	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (total)	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/g	60%	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes on last page.

TABLE C.2: Field Duplicate QAQC Results
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	EX-2-16	EX-2-16	RPD	EX-3-10	EX-3-10	RPD	EX-3-13	EX-3-13	RPD	EX-4-1	EX-4-1	RPD
Laboratory Sample ID			1576990	1576991		1577003	1577004		1577007	1577008		1838160	1838161	
SNC-Lavalin Sample ID		Limit	EX-2-16	EX-2-16A		EX-3-10	EX-3-10A		EX-3-13	EX-3-13A		EX-4-1	EX-4-101	
Sampling Date (yyyy/mm/dd)			2020/10/16	2020/10/16		2020/10/19	2020/10/19		2020/10/19	2020/10/19		2020/12/15	2020/12/15	
Depth Interval (mbgs)			0.8	0.8		1.5	1.5		1.5	1.5		0.5	0.5	
				Duplicate of			Duplicate of			Duplicate of			Duplicate of	
Parameter	**Units**			EX-2-16			EX-3-10			EX-3-13			EX-4-1	
General Chemistry														
pH	pH	0.6 [2]	7.81	8.41	**0.60**	6.75	6.69	0.06	7.76	7.72	0.04	7.48	7.48	0.00
Total Metals														
Antimony	µg/g	60%	-	-	-	< 0.8	< 0.8	*	< 0.8	< 0.8	*	-	-	-
Arsenic	µg/g	60%	-	-	-	5	5	0%	6	6	0%	-	-	-
Barium	µg/g	60%	-	-	-	107	114	6%	73	72	1%	-	-	-
Beryllium	µg/g	60%	-	-	-	0.9	0.9	*	0.8	0.7	*	-	-	-
Boron	µg/g	60%	-	-	-	9	7	*	11	11	*	-	-	-
Cadmium	µg/g	60%	-	-	-	< 0.5	< 0.5	*	< 0.5	< 0.5	*	-	-	-
Chromium (total)	µg/g	60%	-	-	-	30	31	3%	27	26	4%	-	-	-
Cobalt	µg/g	60%	-	-	-	12.3	11	11%	13.7	13.4	2%	-	-	-
Copper	µg/g	60%	-	-	-	15	16	6%	33	33	0%	-	-	-
Lead	µg/g	60%	-	-	-	14	13	7%	10	11	10%	-	-	-
Molybdenum	µg/g	60%	-	-	-	0.5	0.5	*	< 0.5	< 0.5	*	-	-	-
Nickel	µg/g	60%	-	-	-	22	22	0%	28	27	4%	-	-	-
Selenium	µg/g	60%	-	-	-	0.9	0.9	*	< 0.4	0.5	*	-	-	-
Silver	µg/g	60%	-	-	-	< 0.2	< 0.2	*	< 0.2	< 0.2	*	-	-	-
Thallium	µg/g	60%	-	-	-	< 0.4	< 0.4	*	< 0.4	< 0.4	*	-	-	-
Uranium	µg/g	60%	-	-	-	1.4	1.7	*	1.1	1.1	*	-	-	-
Vanadium	µg/g	60%	-	-	-	49	47	4%	40	39	3%	-	-	-
Zinc	µg/g	60%	-	-	-	95	97	2%	61	60	2%	-	-	-

See footnotes on last page.

TABLE C.2: Field Duplicate QAQC Results
Remedial Excavations
25 Rutherford Road South, Brampton, ON

Sample Location		RPD	EX-4-9	EX-4-9	RPD
Laboratory Sample ID			1838168	1838169	
SNC-Lavalin Sample ID		Limit	EX-4-9	EX-4-99	
Sampling Date (yyyy/mm/dd)			2020/12/15	2020/12/15	
Depth Interval (mbgs)			0.8	0.8	
				Duplicate of	
Parameter	**Units**			EX-4-9	
General Chemistry					
pH	pH	0.6 [2]	7.75	7.7	0.05
Total Metals					
Antimony	µg/g	60%	-	-	-
Arsenic	µg/g	60%	-	-	-
Barium	µg/g	60%	-	-	-
Beryllium	µg/g	60%	-	-	-
Boron	µg/g	60%	-	-	-
Cadmium	µg/g	60%	-	-	-
Chromium (total)	µg/g	60%	-	-	-
Cobalt	µg/g	60%	-	-	-
Copper	µg/g	60%	-	-	-
Lead	µg/g	60%	-	-	-
Molybdenum	µg/g	60%	-	-	-
Nickel	µg/g	60%	-	-	-
Selenium	µg/g	60%	-	-	-
Silver	µg/g	60%	-	-	-
Thallium	µg/g	60%	-	-	-
Uranium	µg/g	60%	-	-	-
Vanadium	µg/g	60%	-	-	-
Zinc	µg/g	60%	-	-	-

See footnotes on last page.

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-" - Not analyzed
na - Not applicable
mbgs - metres below ground surface
µg/g - micrograms per gram, dry weight basis
RPD - Relative Percent Difference (not calculated when one or both results are less than or equal to 5X RDL)
* - RPD not calculable

BOLD RPD exceeds limit

[1] RPD limits calculated as 2x laboratory performance criteria (CCME, 2016) using limits provided in the CCME guidance.
[2] CCME performance criteria for pH is for lab duplicates to be within 0.3 units, therefore, a performance criteria of 0.6 pH units has been applied to field duplicates following CCME (2016) guidance.

APPENDIX A

Certificates of Analysis
(Confirmatory Soil Samples)

AGAT Laboratories

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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Rd

AGAT WORK ORDER: 20T669157

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Oct 29, 2020

PAGES (INCLUDING COVER): 7

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 Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Road S, Brampton

SAMPLED BY:Richard Bearing

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

DATE RECEIVED: 2020-10-26

DATE REPORTED: 2020-10-29

				SAMPLE DESCRIPTION:	EX-1-19	EX-1-20	EX-1-21	EX-1-22	EX-1-23	EX-1-24	EX-1-25	EX-1-26
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-26 14:00	2020-10-26 14:10	2020-10-26 14:20	2020-10-26 14:30	2020-10-26 14:40	2020-10-26 14:50	2020-10-26 15:00	2020-10-26 15:10
Parameter	Unit	G / S	RDL		1608546	1608548	1608549	1608550	1608551	1608552	1608553	1608554
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		9.43	11.1	10.0	8.91	8.04	7.59	10.5	9.16

				SAMPLE DESCRIPTION:	EX-1-27	EX-1-19A	EX-2-18	EX-2-19	EX-2-20	EX-2-21	EX-2-22	EX-2-23
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-26 15:20	2020-10-26 14:00	2020-10-26 15:40	2020-10-26 15:50	2020-10-26 16:00	2020-10-26 16:10	2020-10-26 16:20	2020-10-26 16:30
Parameter	Unit	G / S	RDL		1608555	1608556	1608557	1608558	1608559	1608560	1608561	1608562
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		8.53	8.68	7.74	7.80	7.71	7.56	7.80	7.68

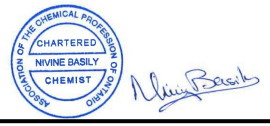
				SAMPLE DESCRIPTION:	EX-2-24	EX-2-24A
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2020-10-26 16:40	2020-10-26 16:45
Parameter	Unit	G / S	RDL		1608563	1608564
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.25	6.96

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

1608546-1608564 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



AGAT Laboratories

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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Exceedance Summary

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1608546	EX-1-19	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.43
1608548	EX-1-20	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.1
1608549	EX-1-21	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.0
1608553	EX-1-25	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.5
1608554	EX-1-26	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.16

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 25 Rutherford Rd

SAMPLING SITE:25 Rutherford Road S, Brampton

AGAT WORK ORDER: 20T669157

ATTENTION TO: Abed Yassine

SAMPLED BY:Richard Bearing

Soil Analysis

RPT Date: Oct 29, 2020			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1608546	1608546	9.43	9.42	0.1%	NA	100%	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.

Certified By:

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Road S, Brampton

SAMPLED BY:Richard Bearing

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:
Company: SNC-Lavalin
Contact: Abed Yassine
Address: 195 Lesmill Rd. Toronto
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Project Information:
Project: 25 Rutherford Rd
Site Location: 25 Rutherford Rd S. Brampton
Sampled By: Richard Gerring
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company: SNC-Lavalin
Contact: Account Payables
Address:
Email: account.payables@snclavalin.com

Regulatory Requirements:
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☒ Fine

☐ Excess Soils R406
Table ____ (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
____ (Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a Record of Site Condition? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☒ Yes ☐ No

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Laboratory Use Only
Work Order #: 20T669157
Cooler Quantity: 2 Small blue
Arrival Temperatures: 6.0 | 6.2 | 6.1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ON ICE

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply): ____
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs; Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package: pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR								Potentially Hazardous or High Concentration (Y/N)
EX-1-19	Oct 26	2:00 AM/PM	1	S													X							
EX-1-20		2:10 AM/PM	1														X							
EX-1-21		2:20 AM/PM	1														X							
EX-1-22		2:30 AM/PM	1														X							
EX-1-23		2:40 AM/PM	1														X							
EX-1-24		2:50 AM/PM	1														X							
EX-1-25		3:00 AM/PM	1														X							
EX-1-26		3:10 AM/PM	1														X							
EX-1-27		3:20 AM/PM	1														X							
EX-1-19A		2:00 AM/PM	1														X							
		AM/PM																						

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gerring Richard Gerring	Oct 26/20	6:30 PM			

25/Oct/20 7:15PM

Page 1 of 2

No: 110975

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
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Chain of Custody Record

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

Laboratory Use Only

Work Order #:

Cooler Quantity:

Arrival Temperatures: 6.0 | 6.2 | 6.1

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes:

Report Information:

Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd. Toronto
Phone: 416-786-9730
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 *(Indicate One)*
☐ Ind/Com
☒ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ Coarse
☒ Fine

☐ Excess Soils R406
Table ____ *(Indicate One)*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
____ Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
____ *Indicate One*

Is this submission for a Record of Site Condition? ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 25 Rutherford Rd.
Site Location: 25 Rutherford Rd. S Brampton
Sampled By:
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC-Lavalin
Contact: Account Payables
Address:
Email: accounts.payables@snclavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	pH	Potentially Hazardous or High Concentration (Y/N)
Ex-2-18	Oct 26	3:40 PM	1	S														X	
Ex-2-19		3:50 PM	1	↓														X	
Ex-2-20		4:00 PM	1	↓														X	
Ex-2-21		4:10 PM	1	↓														X	
Ex-2-22		4:20 PM	1	↓														X	
Ex-2-23		4:30 PM	1	↓														X	
Ex-2-24		4:40 PM	1	↓														X	
Ex-2-24A		4:45 PM	1	↓														X	
		AM PM																	
		AM PM																	
		AM PM																	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
[signature]	Oct 26/20	6:30	DMER [signature]		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

Nº: 110976

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http://www.agatlabs.com

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Rd

AGAT WORK ORDER: 20T685476

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

DATE REPORTED: Dec 04, 2020

PAGES (INCLUDING COVER): 4

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 Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- 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 guidelines 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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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T685476

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd

SAMPLED BY:Renee H

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

DATE RECEIVED: 2020-12-02

DATE REPORTED: 2020-12-04

				SAMPLE DESCRIPTION:	EX-1-28	EX-1-29	EX-1-30	EX-1-31	EX-1-32	EX-1-33	EX-1-34	EX-1-35
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-12-02 13:45	2020-12-02 13:55	2020-12-02 14:05	2020-12-02 14:15	2020-12-02 14:25	2020-12-02 14:30	2020-12-02 14:35	2020-12-02 15:00
Parameter	Unit	G / S	RDL		1767868	1767870	1767871	1767872	1767873	1767874	1767875	1767876
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.54	7.34	7.50	7.24	7.05	6.78	7.44	7.38

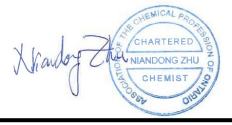
				SAMPLE DESCRIPTION:	EX-1-36	EX-1-300	EX-1-355	EX-1-39	EX-1-37	EX-1-38
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-12-02 15:15	2020-12-02 14:05	2020-12-02 15:00	2020-12-02 15:40	2020-12-02 15:20	2020-12-02 15:30
Parameter	Unit	G / S	RDL		1767877	1767878	1767879	1767880	1767881	1767882
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.31	7.50	7.33	7.65	7.05	6.93

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

1767868-1767882 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: 25 Rutherford Rd
SAMPLING SITE:25 Rutherford Rd

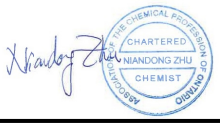
AGAT WORK ORDER: 20T685476
ATTENTION TO: Abed Yassine
SAMPLED BY:Renee H

Soil Analysis

RPT Date: Dec 04, 2020			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) - pH (Soil)															
pH, 2:1 CaCl2 Extraction	1767883		7.60	7.64	0.5%	NA	100%	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.

Certified By:



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http://www.agatlabs.com

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T685476

PROJECT: 25 Rutherford Rd

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd

SAMPLED BY:Renee H

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Rd

AGAT WORK ORDER: 20T663957

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Jan 13, 2021

PAGES (INCLUDING COVER): 7

VERSION*: 1

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

*Notes

VERSION 1:Revised report with updated sample IDs as per request. 2021/01/13

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 20T663957

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-10-15

DATE REPORTED: 2021-01-13

				SAMPLE DESCRIPTION:	Ex-1-1	Ex-1-2	Ex-1-3	Ex-1-4	Ex-1-5	Ex-1-6	Ex-1-7	Ex-1-8
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-14 12:30	2020-10-14 12:35	2020-10-14 12:45	2020-10-14 12:55	2020-10-14 13:10	2020-10-14 13:15	2020-10-14 13:25	2020-10-14 13:35
Parameter	Unit	G / S	RDL		1561840	1561841	1561842	1561843	1561844	1561845	1561846	1561847
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		6.95	10.7	7.30	11.2	7.02	7.38	7.28	7.11

				SAMPLE DESCRIPTION:	Ex-1-9	Ex-1-10	Ex-1-100	Ex-1-11	Ex-1-12	Ex-1-13	Ex-1-14	Ex-1-15
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-14 13:40	2020-10-14 13:50	2020-10-14 13:50	2020-10-14 14:15	2020-10-14 14:30	2020-10-14 14:45	2020-10-14 15:00	2020-10-14 15:15
Parameter	Unit	G / S	RDL		1561848	1561849	1561850	1561851	1561852	1561853	1561854	1561856
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.02	7.96	8.01	7.60	7.88	7.65	8.27	7.58

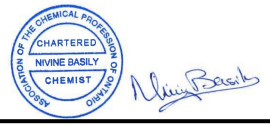
				SAMPLE DESCRIPTION:	Ex-1-16	Ex-1-17	Ex-1-18
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-14 15:30	2020-10-14 15:45	2020-10-14 16:00
Parameter	Unit	G / S	RDL		1561857	1561858	1561859
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.63	11.3	7.70

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

1561840-1561859 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



AGAT Laboratories

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

Exceedance Summary

AGAT WORK ORDER: 20T663957

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1561841	Ex-1-2	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.7
1561843	Ex-1-4	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.2
1561858	Ex-1-17	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.3

AGAT Laboratories

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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 25 Rutherford Rd

SAMPLING SITE:

AGAT WORK ORDER: 20T663957

ATTENTION TO: Abed Yassine

SAMPLED BY:

Soil Analysis

RPT Date: Jan 13, 2021			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1561840	1561840	6.95	6.98	0.4%	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.

Certified By:

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T663957

PROJECT: 25 Rutherford Rd

ATTENTION TO: Abed Yassine

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

1 Lg BIK

1/2

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: SNC-Lavalin Inc.
Contact: ~~Ramez~~ Abed Yassine
Address: 235 Legault RD, Toronto, ON M3B 2V1
Phone: 416 635 5882 Fax:
Reports to be sent to:
1. Email: Abed.Yassine@Snclavalin.com
2. Email:

Project Information:

Project: 25 Rutherford RD Brampton, ON
Site Location: 25 Rutherford RD
Sampled By: Joey Preston
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☑

Company: SNC Lavalin Inc
Contact: Account Payables
Address:
Email: Account.Payables@snclavalin.com

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 558

☑ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
~~☐ Coarse~~ SR
☑ Fine

☐ Excess Soils R406
Table _____ *Indicate One*
Sample from APEC?
☐ Yes
☐ No
☐ Stockpile ☐ In-situ

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 20T663957
Cooler Quantity:
Arrival Temperatures: 1.6 | 2.0 | 2.1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: On ice

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics, inc. EC/SAR	Metals - ICPMS, ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	pH										Potentially Hazardous or High Concentration (Y/N)
Ex-01-01	Oct 14/20	12:30 AM PM	1	Soil													X									
Ex-01-02		12:35 AM PM	1														X									
Ex-01-03		12:45 AM PM	1														X									
Ex-01-04		12:55 AM PM	1														X									
Ex-01-05		13:10 AM PM	1														X									
Ex-01-06		13:15 AM PM	1														X									
Ex-01-07		13:25 AM PM	1														X									
Ex-01-08		13:35 AM PM	1														X									
Ex-01-09		13:45 AM PM	1														X									
Ex-01-10		13:50 AM PM	1														X									
Ex-01-100		13:50 AM PM	1														X									

20 OCT 15 10:37 AM

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Joey Preston	Oct 15/20	10:00	SIMRAN		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 2

№: T 108995

AGAT Laboratories

2/2.

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: SNC Lavalin Inc
Contact: Abed Yassine
Address: 235 Lesmill RD, Toronto, ON M3B 2V1
Phone: 416 635 5882 Fax:
Reports to be sent to:
1. Email: Abed.Yassine@snclavalin.com
2. Email:

Project Information:

Project: 25 Rutherford RD, Brampton, ON
Site Location: 25 Rutherford RD
Sampled By: Joey Preston
AGAT Quote #: 216203 PO: 671835
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☒

Company: SNC Lavalin Inc
Contact:
Address:
Email: Account.Payables@snclavalin.com

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 558

☒ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☒ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ ~~Coarse~~ JP
☒ Fine

☐ Excess Soils R406
Table _____ *Indicate One*
Sample from APEC?
☐ Yes
☐ No
☐ Stockpile ☐ In-situ

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

Is this submission for a Record of Site Condition? ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: See Sig
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics, inc. EC/SAR	O. Reg 153: Metals - ICPMS, ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Excess Soils SPLP Rainwater Leach	SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
Ex-01-11	Oct 14/20	14:15 AM PM	1	Soil														X	
Ex-01-12		14:30 AM PM	1															X	
Ex-01-13		14:45 AM PM	1															X	
Ex-01-14		15:00 AM PM	1															X	
Ex-01-15		15:15 AM PM	1															X	
Ex-01-16		15:30 AM PM	1															X	
Ex-01-17		15:45 AM PM	1															X	
Ex-01-18		16:00 AM PM	1															X	
		AM PM																	
		AM PM																	
		AM PM																	

2020 OCT 15 10:37 AM

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Joey Preston	Oct 15/20	10:00	SIMRAN		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

Nº: T 108996

AGAT Laboratories

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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Rd

AGAT WORK ORDER: 20T669157

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Oct 29, 2020

PAGES (INCLUDING COVER): 7

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 Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- 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 guidelines 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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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Road S, Brampton

SAMPLED BY:Richard Bearing

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

DATE RECEIVED: 2020-10-26

DATE REPORTED: 2020-10-29

				SAMPLE DESCRIPTION:	EX-1-19	EX-1-20	EX-1-21	EX-1-22	EX-1-23	EX-1-24	EX-1-25	EX-1-26
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-26 14:00	2020-10-26 14:10	2020-10-26 14:20	2020-10-26 14:30	2020-10-26 14:40	2020-10-26 14:50	2020-10-26 15:00	2020-10-26 15:10
Parameter	Unit	G / S	RDL		1608546	1608548	1608549	1608550	1608551	1608552	1608553	1608554
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		9.43	11.1	10.0	8.91	8.04	7.59	10.5	9.16

				SAMPLE DESCRIPTION:	EX-1-27	EX-1-19A	EX-2-18	EX-2-19	EX-2-20	EX-2-21	EX-2-22	EX-2-23
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-26 15:20	2020-10-26 14:00	2020-10-26 15:40	2020-10-26 15:50	2020-10-26 16:00	2020-10-26 16:10	2020-10-26 16:20	2020-10-26 16:30
Parameter	Unit	G / S	RDL		1608555	1608556	1608557	1608558	1608559	1608560	1608561	1608562
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		8.53	8.68	7.74	7.80	7.71	7.56	7.80	7.68

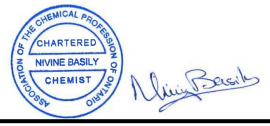
				SAMPLE DESCRIPTION:	EX-2-24	EX-2-24A
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2020-10-26 16:40	2020-10-26 16:45
Parameter	Unit	G / S	RDL		1608563	1608564
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.25	6.96

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

1608546-1608564 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

Exceedance Summary

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1608546	EX-1-19	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.43
1608548	EX-1-20	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.1
1608549	EX-1-21	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.0
1608553	EX-1-25	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.5
1608554	EX-1-26	ON T3 S RPI MFT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.16

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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 25 Rutherford Rd

SAMPLING SITE:25 Rutherford Road S, Brampton

AGAT WORK ORDER: 20T669157

ATTENTION TO: Abed Yassine

SAMPLED BY:Richard Bearing

Soil Analysis

RPT Date: Oct 29, 2020			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1608546	1608546	9.43	9.42	0.1%	NA	100%	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.

Certified By:

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T669157

PROJECT: 25 Rutherford Rd

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Road S, Brampton

SAMPLED BY:Richard Bearing

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:
Company: SNC-Lavalin
Contact: Abed Yassine
Address: 195 Lesmill Rd. Toronto
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Project Information:
Project: 25 Rutherford Rd
Site Location: 25 Rutherford Rd S. Brampton
Sampled By: Richard Gerring
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company: SNC-Lavalin
Contact: Account Payables
Address:
Email: account.payables@snclavalin.com

Regulatory Requirements:
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☒ Fine

☐ Excess Soils R406
Table ____ (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
____ (Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a Record of Site Condition? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☒ Yes ☐ No

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Laboratory Use Only
Work Order #: 20T669157
Cooler Quantity: 2 Small blue
Arrival Temperatures: 6.0 | 6.2 | 6.1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ON ICE

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply): ____
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs; Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package: pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR								Potentially Hazardous or High Concentration (Y/N)
EX-1-19	Oct 26	2:00 AM/PM	1	S													X							
EX-1-20		2:10 AM/PM	1														X							
EX-1-21		2:20 AM/PM	1														X							
EX-1-22		2:30 AM/PM	1														X							
EX-1-23		2:40 AM/PM	1														X							
EX-1-24		2:50 AM/PM	1														X							
EX-1-25		3:00 AM/PM	1														X							
EX-1-26		3:10 AM/PM	1														X							
EX-1-27		3:20 AM/PM	1														X							
EX-1-19A		2:00 AM/PM	1														X							
		AM/PM																						

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gerring Richard Gerring	Oct 26/20	6:30 PM			

25/Oct/20 7:15PM

Page 1 of 2

No: 110975

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Laboratory Use Only

Work Order #:

Cooler Quantity:

Arrival Temperatures: 6.0 | 6.2 | 6.1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Chain of Custody Record

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

Report Information:
Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd. Toronto
Phone: 416-786-9730
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Regulatory Requirements: (Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One): ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine
☐ Excess Soils R406 — Table ___ (Indicate One)
☐ Regulation 558
☐ CCME
☐ Sewer Use: ☐ Sanitary ☐ Storm — Region ___
☐ Prov. Water Quality Objectives (PWQO)
☐ Other ___ (Indicate One)

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:
Project: 25 Rutherford Rd.
Site Location: 25 Rutherford Rd. S Brampton
Sampled By:
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☒ Yes ☐ No

Invoice Information: Bill To Same: Yes ☐ No ☐
Company: SNC-Lavalin
Contact: Account Payables
Address:
Email: accountpayables@snclavalin.com

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil (circled)
SD Sediment
SW Surface Water

Analysis columns: Field Filtered - Metals, Hg, CrVI, DOC (Y/N); O. Reg 153: Metals & Inorganics; Metals - ☐ CrVI, ☐ Hg, ☐ HWSB; BTEX, F1-F4 PHCs; Analyze F4G if required ☐ Yes ☐ No; PAHs; PCBs; VOC; O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs; O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs; Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4; Salt - EC/SAR; PH; Potentially Hazardous or High Concentration (Y/N)

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	PH
Ex-2-18	Oct 26	3:40 PM	1	S		X
Ex-2-19		3:50 PM	1	↓		X
Ex-2-20		4:00 PM	1	↓		X
Ex-2-21		4:10 PM	1	↓		X
Ex-2-22		4:20 PM	1	↓		X
Ex-2-23		4:30 PM	1	↓		X
Ex-2-24		4:40 PM	1	↓		X
Ex-2-24A		4:40 PM	1	↓		X
		AM PM				
		AM PM				
		AM PM				

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
[signature]	Oct 26/20	6:30	DHE [signature]		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

Nº: 110976

AGAT Laboratories

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http://www.agatlabs.com

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Rd. Brampton

AGAT WORK ORDER: 20T665852

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Oct 21, 2020

PAGES (INCLUDING COVER): 7

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

AGAT WORK ORDER: 20T665852

PROJECT: 25 Rutherford Rd. Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

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

DATE RECEIVED: 2020-10-19

DATE REPORTED: 2020-10-21

				SAMPLE DESCRIPTION:	EX-2-1	EX-2-2	EX-2-3	EX-2-4	EX-2-5	EX-2-6	EX-2-7	EX-2-8
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-16 15:00	2020-10-16 15:05	2020-10-16 15:10	2020-10-16 15:15	2020-10-16 15:20	2020-10-16 15:30	2020-10-16 15:40	2020-10-16 15:45
Parameter	Unit	G / S	RDL		1576974	1576975	1576976	1576977	1576978	1576979	1576980	1576981
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		10.2	11.4	8.35	7.41	7.49	11.6	10.0	8.46

				SAMPLE DESCRIPTION:	EX-2-9	EX-2-10	EX-2-11	EX-2-12	EX-2-13	EX-2-14	EX-2-14A	EX-2-15
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-16 15:55	2020-10-16 16:10	2020-10-16 16:15	2020-10-16 16:20	2020-10-16 16:25	2020-10-16 16:30	2020-10-16 16:33	2020-10-16 16:40
Parameter	Unit	G / S	RDL		1576982	1576983	1576984	1576985	1576986	1576987	1576988	1576989
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		8.26	8.19	8.06	8.04	7.94	7.88	7.98	6.94

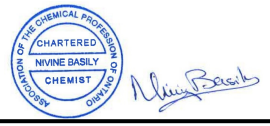
				SAMPLE DESCRIPTION:	EX-2-16	EX-2-16A	EX-2-17
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2020-10-16 16:55	2020-10-16 15:00	2020-10-16 15:10
Parameter	Unit	G / S	RDL		1576990	1576991	1576992
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.81	8.41	8.32

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

1576974-1576992 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Exceedance Summary

AGAT WORK ORDER: 20T665852

PROJECT: 25 Rutherford Rd. Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1576974	EX-2-1	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.2
1576975	EX-2-2	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.4
1576979	EX-2-6	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.6
1576980	EX-2-7	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.0

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 25 Rutherford Rd. Brampton

SAMPLING SITE:25 Rutherford Rd. S., Brampton

AGAT WORK ORDER: 20T665852

ATTENTION TO: Abed Yassine

SAMPLED BY:Richard Gearing

Soil Analysis

RPT Date: Oct 21, 2020			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) - pH (Soil)															
pH, 2:1 CaCl2 Extraction	1576989	1576989	6.94	6.98	0.6%	NA	100%	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.

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T665852

PROJECT: 25 Rutherford Rd. Brampton

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:
Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd. Toronto.
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Project Information:
Project: 25 Rutherford Rd.
Site Location: 25 Rutherford Rd. S. Brampton
Sampled By: Richard Gearing
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☒
Company: SNC-Lavalin
Contact: Account Payables.
Address:
Email: account.Payables@snclavalin.com

Regulatory Requirements:
☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☒ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region *Indicate One*
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Laboratory Use Only
Work Order #: 20T665852
Cooler Quantity:
Arrival Temperatures: 1.1 | 1.3 | 1.4
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes: ON ICE

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides))	O. Reg 153: ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	pH
Ex-2-1	Oct.16	3:00pm	1	S																	X
Ex-2-2		3:05	1																		X
Ex-2-3		3:10	1																		X
Ex-2-4		3:15	1																		X
Ex-2-5		3:20	1																		X
Ex-2-6		3:30	1																		X
Ex-2-7		3:40	1																		X
Ex-2-8		3:45	1																		X
Ex-2-9		3:55	1																		X
Ex-2-10	↓	4:10	1	↓																	X

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gearing	Oct 19/20	2:45	NEAL		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

20OCT19 7:07PM

Page 1 of 2

N°: T 063992

Document ID: DIV 78-1511.014

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Date Revised: June 22, 2017

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: SNC-Lavalin ~~ATE~~
Contact: Abed Yassine
Address: 235 Lesmill Rd. Toronto - ON
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@SNClavalin.com
2. Email:

Project Information:

Project: 25 Rutherford Rd. Brampton.
Site Location: 25 Rutherford Rd. S. Brampton.
Sampled By: Richard Gearing
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☒
Company: SNC-Lavalin.
Contact: Accounts Payables.
Address:
Email: account.Payables@snclavalin.com

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☒ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region *Indicate One*
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: See Dg
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Matrix Legend

B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI Y/N	O. Reg 153: Metals and Inorganics; ☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides)	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	HOLD
Ex-2-11	Oct. 16	4:15	1	S															X
Ex-2-12		4:20	1																X
Ex-2-13		4:25	1																X
Ex-2-14		4:30	1																X
Ex-2-14A		4:33	1																X
Ex-2-15		4:40	1																X
Ex-2-16		4:55	1																X
Ex-2-16A		5:00	1																X
Ex-2-17		5:10	1																X

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gearing	Oct-19	2:45pm	NEAL		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

'20OCT19 7:07PM

Page 2 of 2

N°: T 061559

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CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 25 Rutherford Brampton

AGAT WORK ORDER: 20T665854

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

DATE REPORTED: Oct 21, 2020

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

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T665854

PROJECT: 25 Rutherford Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

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

DATE RECEIVED: 2020-10-19

DATE REPORTED: 2020-10-21

SAMPLE DESCRIPTION:				EX-3-1	EX-3-2	EX-3-3	EX-3-4	EX-3-5	EX-3-6	EX-3-7	EX-3-8
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2020-10-19 11:00	2020-10-19 11:10	2020-10-19 11:15	2020-10-19 11:25	2020-10-19 11:35	2020-10-19 11:45	2020-10-19 14:10	2020-10-19 14:15
Parameter	Unit	G / S	RDL	1576994	1576995	1576996	1576997	1576998	1576999	1577000	1577001
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	3	3	5	3	5	5
Barium	µg/g	390	2	39	22	58	58	74	54	91	91
Beryllium	µg/g	5	0.5	<0.5	<0.5	0.5	0.5	0.6	<0.5	0.8	0.8
Boron	µg/g	120	5	6	6	8	8	9	8	8	8
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	13	9	18	19	23	18	26	26
Cobalt	µg/g	22	0.5	7.4	4.0	8.4	8.9	11.9	7.7	12.0	12.3
Copper	µg/g	180	1	18	14	19	21	26	19	22	19
Lead	µg/g	120	1	7	6	9	10	11	9	19	17
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5
Nickel	µg/g	130	1	13	7	15	17	22	14	21	20
Selenium	µg/g	2.4	0.4	<0.4	<0.4	<0.4	0.5	0.5	0.4	0.8	0.7
Silver	µg/g	25	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	<0.5	<0.5	0.5	0.6	0.6	0.6	1.1	0.9
Vanadium	µg/g	86	1	22	17	29	28	34	28	42	43
Zinc	µg/g	340	5	39	27	48	57	63	46	77	82

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
AMANJOT BHELA
CHEMIST

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 20T665854

PROJECT: 25 Rutherford Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

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

DATE RECEIVED: 2020-10-19

DATE REPORTED: 2020-10-21

SAMPLE DESCRIPTION:				EX-3-9	EX-3-10	EX-3-10A	EX-3-11	EX-3-12	EX-3-13	EX-3-13A
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2020-10-19 14:20	2020-10-19 15:30	2020-10-19 15:35	2020-10-19 15:40	2020-10-19 15:50	2020-10-19 16:00	2020-10-19 16:05
Parameter	Unit	G / S	RDL	1577002	1577003	1577004	1577005	1577006	1577007	1577008
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	5	5	5	1	6	6
Barium	µg/g	390	2	104	107	114	61	18	73	72
Beryllium	µg/g	5	0.5	0.8	0.9	0.9	0.6	<0.5	0.8	0.7
Boron	µg/g	120	5	10	9	7	10	5	11	11
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	29	30	31	21	8	27	26
Cobalt	µg/g	22	0.5	11.3	12.3	11.0	10.9	3.7	13.7	13.4
Copper	µg/g	180	1	18	15	16	28	16	33	33
Lead	µg/g	120	1	17	14	13	10	5	10	11
Molybdenum	µg/g	6.9	0.5	0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	21	22	22	22	6	28	27
Selenium	µg/g	2.4	0.4	0.5	0.9	0.9	<0.4	<0.4	<0.4	0.5
Silver	µg/g	25	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	1.3	1.4	1.7	0.8	<0.5	1.1	1.1
Vanadium	µg/g	86	1	44	49	47	30	16	40	39
Zinc	µg/g	340	5	95	95	97	61	24	61	60

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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MISSISSAUGA, ONTARIO
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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T665854

PROJECT: 25 Rutherford Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

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

DATE RECEIVED: 2020-10-19

DATE REPORTED: 2020-10-21

		SAMPLE DESCRIPTION:		EX-3-1	EX-3-2	EX-3-3	EX-3-4	EX-3-5	EX-3-6	EX-3-7	EX-3-8
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2020-10-19 11:00	2020-10-19 11:10	2020-10-19 11:15	2020-10-19 11:25	2020-10-19 11:35	2020-10-19 11:45	2020-10-19 14:10	2020-10-19 14:15
Parameter	Unit	G / S	RDL	1576994	1576995	1576996	1576997	1576998	1576999	1577000	1577001
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.79	9.40	9.31	7.90	7.75	7.48	7.23	7.15

		SAMPLE DESCRIPTION:		EX-3-9	EX-3-10	EX-3-10A	EX-3-11	EX-3-12	EX-3-13	EX-3-13A
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2020-10-19 14:20	2020-10-19 15:30	2020-10-19 15:35	2020-10-19 15:40	2020-10-19 15:50	2020-10-19 16:00	2020-10-19 16:05
Parameter	Unit	G / S	RDL	1577002	1577003	1577004	1577005	1577006	1577007	1577008
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.87	6.75	6.69	7.76	7.76	7.76	7.72

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

1576994-1577008 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 20T665854

PROJECT: 25 Rutherford Brampton

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Abed Yassine

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1576995	EX-3-2	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.40
1576996	EX-3-3	ON T3 S RPI MFT	O. Reg. 153(511) - pH (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.31

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: 25 Rutherford Brampton
SAMPLING SITE:25 Rutherford Rd. S., Brampton

AGAT WORK ORDER: 20T665854
ATTENTION TO: Abed Yassine
SAMPLED BY:Richard Gearing

Soil Analysis

RPT Date: Oct 21, 2020			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 (Including Hydrides) (Soil)															
Antimony	1576994	1576994	< 0.8	<0.8	NA	< 0.8	128%	70%	130%	83%	80%	120%	103%	70%	130%
Arsenic	1576994	1576994	3	3	NA	< 1	115%	70%	130%	94%	80%	120%	101%	70%	130%
Barium	1576994	1576994	39	38	2.6%	< 2	92%	70%	130%	98%	80%	120%	92%	70%	130%
Beryllium	1576994	1576994	< 0.5	<0.5	NA	< 0.5	103%	70%	130%	99%	80%	120%	97%	70%	130%
Boron	1576994	1576994	6	7	NA	< 5	84%	70%	130%	108%	80%	120%	96%	70%	130%
Cadmium	1576994	1576994	< 0.5	<0.5	NA	< 0.5	115%	70%	130%	107%	80%	120%	105%	70%	130%
Chromium	1576994	1576994	13	14	NA	< 5	109%	70%	130%	101%	80%	120%	118%	70%	130%
Cobalt	1576994	1576994	7.4	7.5	1.3%	< 0.5	113%	70%	130%	103%	80%	120%	109%	70%	130%
Copper	1576994	1576994	18	19	5.4%	< 1	96%	70%	130%	99%	80%	120%	98%	70%	130%
Lead	1576994	1576994	7	7	0.0%	< 1	102%	70%	130%	103%	80%	120%	98%	70%	130%
Molybdenum	1576994	1576994	< 0.5	<0.5	NA	< 0.5	111%	70%	130%	102%	80%	120%	107%	70%	130%
Nickel	1576994	1576994	13	14	7.4%	< 1	106%	70%	130%	101%	80%	120%	104%	70%	130%
Selenium	1576994	1576994	< 0.4	<0.4	NA	< 0.4	109%	70%	130%	102%	80%	120%	108%	70%	130%
Silver	1576994	1576994	< 0.2	<0.2	NA	< 0.2	104%	70%	130%	108%	80%	120%	104%	70%	130%
Thallium	1576994	1576994	< 0.4	<0.4	NA	< 0.4	109%	70%	130%	103%	80%	120%	99%	70%	130%
Uranium	1576994	1576994	< 0.5	<0.5	NA	< 0.5	112%	70%	130%	106%	80%	120%	105%	70%	130%
Vanadium	1576994	1576994	22	22	0.0%	< 1	120%	70%	130%	102%	80%	120%	120%	70%	130%
Zinc	1576994	1576994	39	40	2.5%	< 5	104%	70%	130%	100%	80%	120%	113%	70%	130%

Comments: NA Signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - pH (Soil)															
pH, 2:1 CaCl2 Extraction	1572359		7.45	7.50	0.7%	NA	100%	80%	120%	NA			NA		

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.

Certified By: Amanjot Bhela

AGAT Laboratories

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Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T665854

PROJECT: 25 Rutherford Brampton

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd. S., Brampton

SAMPLED BY:Richard Gearing

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
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
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

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Chain of Custody Record

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

Laboratory Use Only

Work Order #: 20T665854

Cooler Quantity:

Arrival Temperatures: 1.9 | 1.8 | 1.1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ON ICE

Report Information:

Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Les mill Rd. Toronto
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@SNClavalin.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine

☐ Sewer Use — ☐ Sanitary ☐ Storm
Region: ____ (Indicate One) ☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 25 Rutherford Rd. Brampton
Site Location: 25 Rutherford Rd. S. Brampton
Sampled By: Richard Gearing
AGAT Quote #: 210203 PO: 61835

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

Invoice Information:

Bill To Same: Yes ☐ No ☒

Company: SNC-Lavalin
Contact: Account Payables
Address:
Email: account.Payables@SNClavalin.com

Sample Matrix Legend

B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (Incl. Hydrides))	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EEC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	pH	O. Reg. 153 Metals
Ex-3-1	Oct. 19	11:00am	2	S																	X	X
Ex-3-2		11:10	2																		X	X
Ex-3-3		11:15	2																		X	X
Ex-3-4		11:25	2																		X	X
Ex-3-5		11:35	2																		X	X
Ex-3-6		11:45	2																		X	X
Ex-3-7		2:10	2																		X	X
Ex-3-8		2:15	2																		X	X
Ex-3-9		2:20	2																		X	X
Ex-3-10	↓	3:30	2	↓																	X	X

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gearing	Oct 19/20	5:45	NEAL G		

2020 OCT 19 7:11 PM

Page 1 of 2

Nº: T 063991

Document ID: DIV 78 1511 014

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Last Revised: July 22, 2017

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd. Toronto ON
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email:

Project Information:

Project: 25 Rutherford Rd. Brampton
Site Location: 25 Rutherford Rd. S Brampton
Sampled By: Richard Geering
AGAT Quote #: 210203 PO: 671835
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company: SNC Lavalin
Contact: Accounts Payables
Address:
Email: accountspayables@snclavalin.com

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☒ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ *Indicate One*
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: See pg 1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides))	O. Reg 153: ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ EC ☐ FOC ☐ Hg ☐ Cr^{6+} ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	PIN	O.Reg. 153 Metals
Ex-3-10A	Oct 19	3:35	1	S																X	X
Ex-3-11	↓	3:40	2	↓																X	X
Ex-3-12		3:50	2																	X	X
Ex-3-13		4:00	1																	X	X
Ex-3-13A	↓	4:05	1	↓																X	X

Samples Relinquished By (Print Name and Sign): Richard Geering	Date: Oct 19/20	Time: 5:45	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

2020 OCT 19 7:11 PM

Page 2 of 2

Nº: T 061560

Document ID: DW-76-1511-014

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Date Revised: Sept 22, 2017

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CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 671835

AGAT WORK ORDER: 20T690867

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

DATE REPORTED: Jan 13, 2021

PAGES (INCLUDING COVER): 6

VERSION*: 1

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

*Notes

VERSION 1:Revised report with IDs updated as per request. 2021/01/13

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T690867
PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE:25 Rutherford Rd

ATTENTION TO: Abed Yassine
SAMPLED BY:Renee H

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

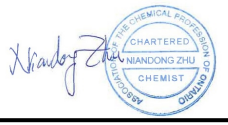
DATE RECEIVED: 2020-12-15 DATE REPORTED: 2021-01-13

		SAMPLE DESCRIPTION:		EX-4-4	EX-4-1	EX-4-101	EX-4-2	EX-4-3	EX-4-5	EX-4-6	EX-4-7
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2020-12-15 15:30	2020-12-15 15:00	2020-12-15 15:00	2020-12-15 15:10	2020-12-15 15:20	2020-12-15 15:50	2020-12-15 16:00	2020-12-15 16:10
Parameter	Unit	G / S	RDL	1838159	1838160	1838161	1838162	1838163	1838164	1838165	1838166
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.61	7.48	7.48	7.66	7.73	7.73	7.67	7.65

		SAMPLE DESCRIPTION:		EX-4-8	EX-4-9	EX-4-99	EX-4-10	EX-4-11	EX-4-12	EX-4-13	EX-4-14
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2020-12-15 16:20	2020-12-15 16:30	2020-12-15 16:30	2020-12-15 16:40	2020-12-15 16:50	2020-12-15 17:00	2020-12-15 17:00	2020-12-15 17:10
Parameter	Unit	G / S	RDL	1838167	1838168	1838169	1838170	1838171	1838172	1838173	1838174
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.67	7.75	7.70	7.37	7.38	7.43	7.22	7.21

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard
1838159-1838174 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).
Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



AGAT Laboratories

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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 671835

SAMPLING SITE:25 Rutherford Rd

AGAT WORK ORDER: 20T690867

ATTENTION TO: Abed Yassine

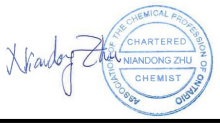
SAMPLED BY:Renee H

Soil Analysis

RPT Date: Jan 13, 2021			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1838172	1838172	7.43	7.42	0.1%	NA	100%	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.

Certified By:



AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T690867

PROJECT: 671835

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd

SAMPLED BY:Renee H

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 20T690867

Cooler Quantity: 1 Med Green

Arrival Temperatures: 4.0 | 4.4 | 4.8

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: onice-packs

Report Information:

Company: SNC Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd
Toronto, ON
Phone: 416 6355882 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email: renee.hum-hsiao@snclavalin.com

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd
Sampled By: RHH
AGAT Quote #: 210203 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC Lavalin Inc
Contact:
Address:
Email: payables@snclavalin.com

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine

☐ Excess Soils R406 — Table (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 FHCs, Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	pH	Potentially Hazardous or High Concentration (Y/N)
EX20-4-4	Dec 15/20	15:30 AM/PM	1	S													X	
EX20-4-1		15:00 AM/PM																
EX20-4-101		15:00 AM/PM																
EX20-4-2		15:10 AM/PM																
EX20-4-3		15:20 AM/PM																
~~EX20-4-4~~		~~15:40~~ AM/PM																
EX20-4-5		15:50 AM/PM																
EX20-4-6		16:00 AM/PM																
EX20-4-7		16:10 AM/PM																
EX20-4-8		16:20 AM/PM																
		AM/PM																

20 DEC 15 5:15pm

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Hum-Hsiao Renee	Dec 15/20	17:20	SMRAN		
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

Page ____ of ____

N°: T113771

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only
Work Order #: 20T690867
Cooler Quantity:
Arrival Temperatures: See Pg 1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Report Information:
Company: SNC Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd
Toronto ON
Phone: 416 635 5882 Fax:
Reports to be sent to:
1. Email: abed.yassine@snclavalin.com
2. Email: Rene.hum-hsiao@snclavalin.com

Regulatory Requirements:
(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine
☐ Excess Soils R406 — Table (Indicate One)
☐ Regulation 558
☐ CCME
☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Project Information:
Project: 671835
Site Location: 25 Rutherford Rd
Sampled By: RHH
AGAT Quote #: 210203 PO:
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company: SNC Lavalin Inc
Contact:
Address:
Email: payables@snclavalin.com

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR		pH						Potentially Hazardous or High Concentration (Y/N)
EX 20-4-9	Dec 15/20	16:30 AM PM	1	S														X							
EX 20-4-99		16:30 AM PM																							
EX 20-4-10		16:40 AM PM																							
EX 20-4-11		16:50 AM PM																							
EX 20-4-12		17:00 AM PM																							
EX 20-4-13		17:00 AM PM																							
EX 20-4-14		17:10 AM PM																							
		AM PM																							
		AM PM																							
		AM PM																							
		AM PM																							

20 DEC 15 5:35 PM

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time	
Hum-Hsiao Rene	Dec 15/20	17:30				
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time	Page ____ of ____
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time	N°: T113770

Document ID: DIV-TR-1511.018

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

APPENDIX D

Well Records

Ontario

Ministry of the Environment and Climate Change

Well Record for Well Cluster – Part 1 of 3

(Only for Multiple Test Holes or Dewatering Wells)

Regulation 903 Ontario Water Resources Act

All measurements recorded in: ☐ Metric ☐ Imperial

Follow instructions on the front and back of this form. Print or Type

Well Tag No. of Deepest Well: *(Print Well Tag No.)* A280693

Well No. on Drawing of Deepest Well: 306

☐ Dewatering wells

☒ Test holes

No. of wells reported _____

Page _____ of _____

Well Cluster Location Information

Address of Well Location (Street Number(s)/Name(s), RR, if available)	Lot(s)	Concession(s)	Geographic Township	County/District/Upper Tier Municipality
25 Rutherford Rd S				Peel

City, Town, Village or Hamlet	Province	GPS Unit Make	Model	Unit Mode of Operation
Brampton	Ontario	Magellan	Triton 4000	☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify:

Mandatory Attachments/Additional Information

☒ Land Owner Consent Form must be attached.

☒ Detailed Drawing of All Well Locations must be attached.

I, the person constructing the well, will promptly submit to the Director, on request, any additional information in my custody or control related to any well in the well cluster that I have constructed.

Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____

Well Details

Well # on Drawing	UTM Coordinates Zone	Easting	Northing	Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material; Diameter (cm/in)	Casing (m/ft) From	Casing To	Screen Interval (m/ft) From	Screen To	Annular Space Material (m/ft) From	Annular Space Material To	Annular Space Material: Material:	Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)
320	17	601154	4839272	30	6	augered	2" PVC	0	25	25	30	0	30	sand holeplug	gravel/sand/clay	5½	2020/03/04
315	17	601157	4839254	30	6	augered	2" PVC	0	20	20	30	0	30			2	2020/03/05
307	17	601151	4839248	26	6	augered	2" PVC	0	16	16	26	0	26			2	2020/03/06
313	17	601153	4839262	28	6	augered	2" PVC	0	28	18	28	0	28			2	2020/03/06
311	17	601153	4839252	30	6	augered	2" PVC	0	30	20	30	0	30			2	2020/03/09
309	17	601154	4839236	30	6	augered	2" PVC	0	30	20	30	0	30			12	2020/03/09
304	17	601150	4839240	32	6	augered	2" PVC	0	32	22	32	0	30			15	2020/03/09
302	17	601152	4839237	32	6	augered	2" PVC	0	32	22	32	0	32			7	2020/03/10
306	17	601151	4839213	32	6	augered	2" PVC	0	32	22	32	0	32			11	2020/03/11
312	17	601152	4839227	15	6	augered	2" PVC	0	5	15	5	0	15			2	2020/03/12

Well Contractor and Well Technician Information

Business Name of Well Contractor	Business Address (Street Number/Name, RR)	Municipality	Province
Extreme Drilling Environmental Services Inc	11500 Simcoe St. Sunderland		ON

Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address
L0C 1H0	647-929-0241	7654	Kaitlyn.extremedrilling@outlook.com

Name of Well Technician (First Name, Last Name)	Well Technician's Licence No.	Signature of Well Technician	Date Submitted (yyyy/mm/dd)
Eric Naisluck	3761		2020/03/15

Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)	Date Last Well in Cluster Completed (yyyy/mm/dd)

Well Abandonment

Person Abandoning the Wells:

Name _____ (Print or Type) - See instruction 11 on the back of this form

Ministry Use Only

Date Received (yyyy/mm/dd)	Audit No.
	C 43261

Comments:

Contractor's Copy

Ontario

Ministry of the Environment and Climate Change

Well Record for Well Cluster - Part 2 of 3
Land Owner Consent

This form is to be completed by the person who constructs or abandons test holes or dewatering wells that form all or part of a well cluster. If this form is being used to report any well abandonment, these wells must have been previously reported as part of a single well cluster.

Note: For well cluster records, only the owners of the land on which the wells are situated are to give written consent. If the well purchaser (e.g. a consultant who hires the driller) is not the owner of the land, then the well purchaser cannot sign the consent form.

By signing this form, land owners are providing consent to use one well record to report a well cluster of test holes or dewatering wells in accordance with section 16.4 of Regulation 903 made under the *Ontario Water Resources Act.*

This completed **Well Record for Well Cluster Part 2 - Land Owner Consent** must be attached to Parts 1 and 3.

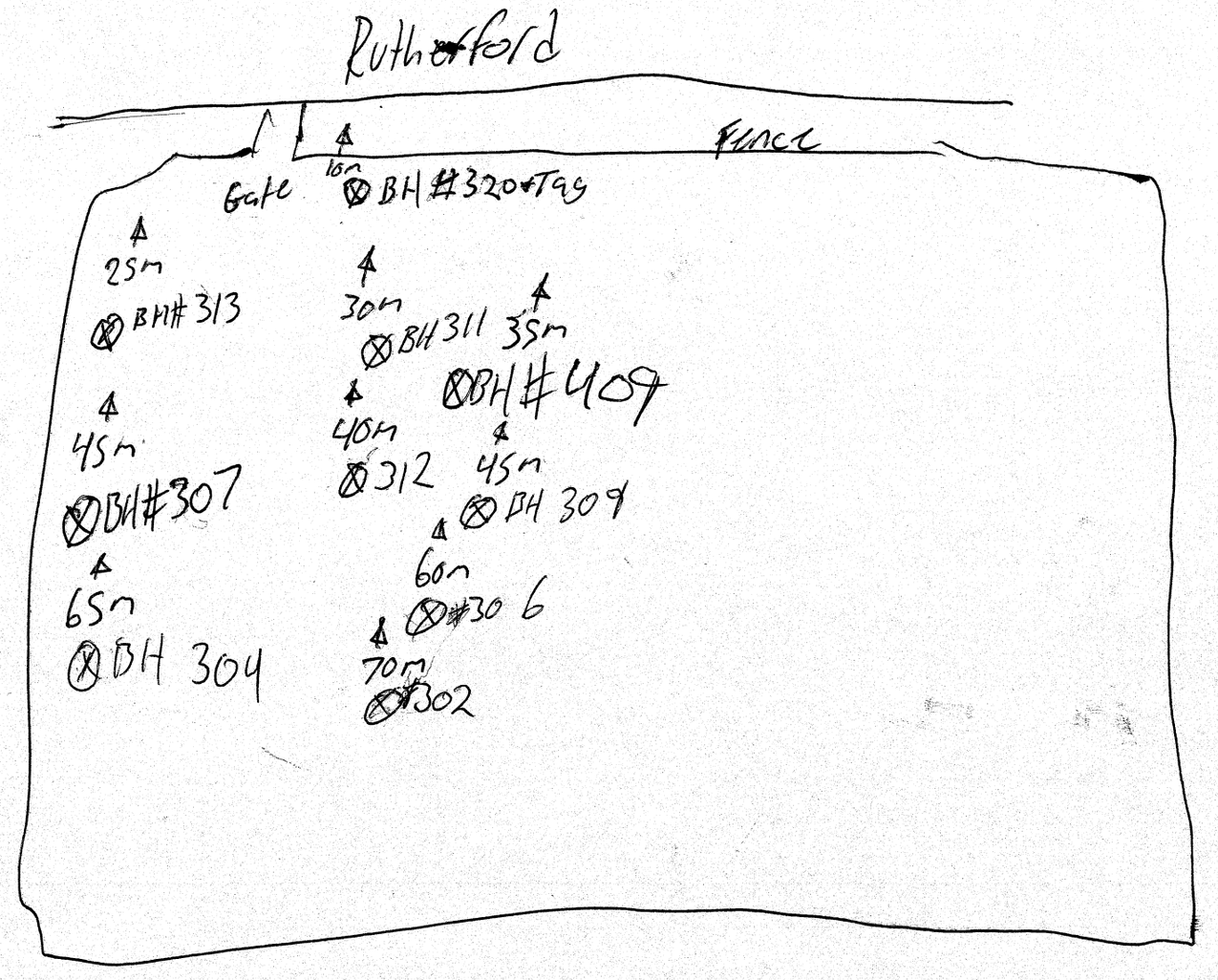
* Please PRINT if completing by hand.

Well Tag Number: # A280693

"Well Record for Well Cluster" Audit Number: # C43261

Well # on Detailed Drawing	Property Location Description	Land Owner's Name	Signature of Land Owner	Date Signed *(yyyy/mm/dd)*
320	25 Rutherford Rd S			
315	25 Rutherford Rd S			
307	25 Rutherford Rd S			
313	25 Rutherford Rd S			
311	25 Rutherford Rd S			
309	25 Rutherford Rd S			
304	25 Rutherford Rd S			
302	25 Rutherford Rd S			
306	25 Rutherford Rd S			
312	25 Rutherford Rd S			

Contractor's Copy


Rutherford
Fence
Gate
10m
BH #320+Tag
25m
BH#313
30m
BH311
35m
BH#409
40m
312
45m
BH#307
45m
BH 309
60m
#306
65m
BH 304
70m
#302

APPENDIX E

Soil Brought to Site

Soil Excavated at or Brought to the Phase Two Property

This Appendix provides an overview of management and assessment of soil excavated at or brought to 25 Rutherford Rd South, Brampton, Ontario, herein referred to as "the Site", since 2020 during completion of the Phase Two environmental site assessment (ESA) and remedial excavation.

1. Soil Brought to the Phase Two Property

1.1. Characterization at Source Locations

The fill material brought to the Site were sourced from aggregate yards located in the Caledon area. No on-site potentially contaminating activities (PCAs) are anticipated for fill sourced from licensed aggregate facilities (Strata Aggregates), since ¾'' clear gravel was used as backfill. Sampling was not required prior to backfilling because of the coarse nature of the backfill material. No potential contaminants of concern (PCOC) were identified.

Fill Material	Source Location	Tonnage Imported	Approximate Volume Imported (m^3)
¾'' Clear Gravel	Strata Aggregates 22 Perdue Ct, Caledon, ON, L7C 2W1	855.34	1075

1.2. Characterization at the Site

All the material was characterized at the source location prior to being imported. Fill materials were inspected upon importation to the Site, including soil characterized at source, to verify that the material brought to the Site was consistent with the proposed material and to check for signs of impacts or deleterious material that may have been introduced in transit.

1.3. Placement of Fill at the Site

In 2020, fill material was brought to the Site to backfill excavation EX-1, EX-2, EX-3, and EX-4 from the base of the excavation to approximately 0.5 m below ground surface. Fill material was backfilled in sequential order from EX-1 to EX-4, starting at excavation one, since excavation 1 was located furthest from the site access. The clear gravel was dumped directly into the excavation at the site and no stockpiles were created on site. The four (4) excavation areas where fill materials were used as backfill as part of the Remedial Excavation, are shown in Figure C.1.

1.4. Quality Assurance and Quality Control Measures

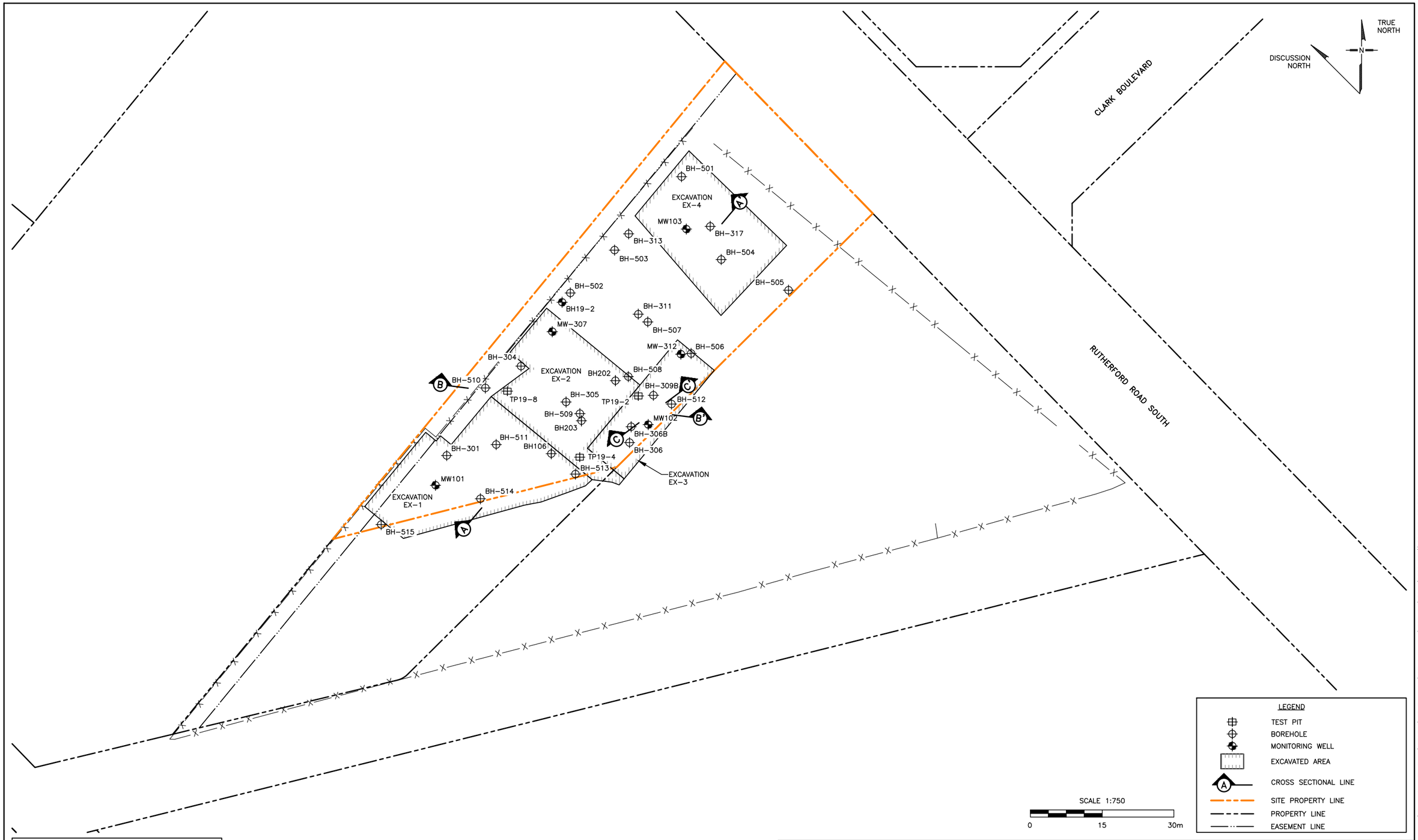
No sampling of imported backfill was required, thus no QA/QC for soil pile sampling was implemented.

2. Segregation of Soil

Approximately 1,923 m^3 (5,161 tonnes) of soil was excavated during the remedial excavation program and segregated and sent for off-site disposal at the MECP licensed Trillium Recovery Facility, in Toronto, Ontario. No soil was segregated for potential reuse as part of the remedial program.

3. Stockpiles

No excess soil was stored on site, therefore no soil stockpiles were created.



NOTE(S):
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'CNL' : COULD NOT LOCATE
4. 'm' : METRES

SNC·LAVALIN

Client/Location: CITY OF BRAMPTON 25 RUTHERFORD ROAD SOUTH, BRAMPTON, ON			Title: EXCAVATION LOCATION PLAN
Project No: 671835	Filename: 011FC1_671835	Date: AUGUST 2021	Dwg No: FIGURE C.1
Drawn: AG	Verified: RHH	Project Manager: AY	

PAGE FORMAT: 11x17

FILENAME: P:\City of Brampton\Rutherford Rd South\671835\40_Execution\47_Wrkg_Vers\CAD_GIS\011 (2021 RSC)\011FC1_671835.dwg

APPENDIX F
Legal Survey

SCHEDULE			
PART	LOT	PLAN	PIN
1	PART OF LOT 13	REGISTERED PLAN No. 644	PART OF PIN 14032-0049 (LT)
2			
3			
4			
5			

PARTS 1 TO 9, INCLUSIVE, COMPRISE ALL OF PIN 14032-0049 (LT).

SCHEDULE			
PART	LOT/BLOCK	PLAN	PIN
6	PART OF LOT 13 AND ALL OF BLOCK A	REGISTERED PLAN No. 644	PART OF PIN 14032-0049 (LT)
7	PART OF BLOCK L	REGISTERED PLAN No. 518	
8			
9			

PART 7 - SUBJECT TO AN EASEMENT AS IN INST. No. VS103834.
PART 9 - SUBJECT TO AN EASEMENT AS IN INST. No. VS149099E.

PLAN 43R-39855

Received and deposited

April 14th, 2021

Jane Potter

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

RUTHERFORD ROAD
(DEDICATED BY REGISTERED PLAN No. 644)
PIN 14032-0145 (LT)

Phase One Property
Phase Two Property
RSC Property

PLAN OF SURVEY OF
ALL OF BLOCK A AND
PART OF LOT 13
REGISTERED PLAN No. 644 AND
PART OF BLOCK L
REGISTERED PLAN No. 518
CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL
SCALE 1 : 500

10 0 10 20 30 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 609mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:500

J.D. BARNES LIMITED

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

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999693.

FOR BEARING COMPARISONS, A ROTATION OF 0°52'00" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2 AND P3.

INTEGRATION DATA		
OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD83 (CSRS) (2010.0).		
COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF O.REG 216/10.		
POINT ID	EASTING	NORTHING
ORP (A)	601 484.38	4 839 358.29
ORP (B)	601 646.57	4 839 197.14
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.		

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT SET
SIB	DENOTES	STANDARD IRON BAR
RIB	DENOTES	ROUND IRON BAR
IB	DENOTES	IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
CP	DENOTES	CONCRETE PIN WITH WASHER
WIT	DENOTES	WITNESS
P1	DENOTES	PLAN 43R-18760
P2	DENOTES	REGISTERED PLAN No. 644
P3	DENOTES	PLAN 43R-11820
P4	DENOTES	PLAN OF SURVEY BY J.D. BARNES LIMITED, DATED MAY 7, 2018. REFERENCE No. 18-30-218-00-A.
P5	DENOTES	REGISTERED PLAN No. 518
P6	DENOTES	SURVEYOR'S REAL PROPERTY REPORT BY J.D. BARNES LIMITED, DATED JULY 9, 2019. REFERENCE No. 19-30-394-00.
P7	DENOTES	PLAN 43R-39358
MEAS	DENOTES	MEASURED
NI	DENOTES	NOT IDENTIFIABLE
1302	DENOTES	A. SKRANDA, O.L.S.
OU	DENOTES	ORIGIN UNKNOWN

N=NORTH / S=SOUTH / E=EAST / W=WEST

ALL FOUND SURVEY MONUMENTS WERE ORIGINALLY SET BY J.D. BARNES LIMITED, UNLESS NOTED OTHERWISE.

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 12th DAY OF MARCH, 2021.

APRIL 7th, 2021
DATE

THOMAS J. SALB
ONTARIO LAND SURVEYOR

THIS PLAN OF SURVEY RELATES TO AOLS PLAN SUBMISSION FORM NUMBER 2149378

J. D. BARNES LIMITED
SURVEYING MAPPING GIS
LAND INFORMATION SPECIALISTS
401 WHEELABRATOR WAY, SUITE A, MILTON, ON L9T 3C1
T: (905) 875-9955 F: (905) 875-9956 www.jdbarnes.com

DRAWN BY:	CHECKED BY:	REFERENCE NO.:
AP	TJS	18-30-218-02-A
FILE: G:\18-30-218\02\Drawing\18-30-218-02-A.dgn		DATED: APRIL 7th, 2021

APPENDIX G

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: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Wing Shun Wu

PROJECT: 671835

AGAT WORK ORDER: 20T582085

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

DATE REPORTED: Mar 16, 2020

PAGES (INCLUDING COVER): 6

VERSION*: 1

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

*Notes

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 20T582085

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-06

DATE REPORTED: 2020-03-16

		SAMPLE DESCRIPTION:		BH-309B-3
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2020-03-05
Parameter	Unit	G / S	RDL	1001556
Antimony	µg/g	1.3	0.8	<0.8
Arsenic	µg/g	18	1	6
Barium	µg/g	220	2	77
Beryllium	µg/g	2.5	0.5	0.6
Boron	µg/g	36	5	10
Cadmium	µg/g	1.2	0.5	<0.5
Chromium	µg/g	70	5	22
Cobalt	µg/g	22	0.5	11.9
Copper	µg/g	92	1	29
Lead	µg/g	120	1	9
Molybdenum	µg/g	2	0.5	<0.5
Nickel	µg/g	82	1	25
Selenium	µg/g	1.5	0.4	<0.4
Silver	µg/g	0.5	0.2	<0.2
Thallium	µg/g	1	0.4	<0.4
Uranium	µg/g	2.5	0.5	0.8
Vanadium	µg/g	86	1	33
Zinc	µg/g	290	5	56

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T582085

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-06

DATE REPORTED: 2020-03-16

				SAMPLE DESCRIPTION:	BH-309B-1
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2020-03-05
Parameter	Unit	G / S	RDL	1001554	
pH, 2:1 CaCl2 Extraction	pH Units		NA	8.06	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

1001554 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T582085

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Mar 16, 2020			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	998610		7.26	7.25	0.1%	NA	101%	80%	120%						
O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	1001566		<0.8	<0.8	NA	< 0.8	119%	70%	130%	96%	80%	120%	90%	70%	130%
Arsenic	1001566		3	3	NA	< 1	105%	70%	130%	95%	80%	120%	98%	70%	130%
Barium	1001566		17	18	5.7%	< 2	107%	70%	130%	100%	80%	120%	102%	70%	130%
Beryllium	1001566		<0.5	<0.5	NA	< 0.5	93%	70%	130%	108%	80%	120%	100%	70%	130%
Boron	1001566		<5	<5	NA	< 5	83%	70%	130%	115%	80%	120%	98%	70%	130%
Cadmium	1001566		<0.5	<0.5	NA	< 0.5	107%	70%	130%	97%	80%	120%	97%	70%	130%
Chromium	1001566		7	7	NA	< 5	101%	70%	130%	93%	80%	120%	93%	70%	130%
Cobalt	1001566		3.0	3.1	3.3%	< 0.5	97%	70%	130%	98%	80%	120%	95%	70%	130%
Copper	1001566		6	6	0.0%	< 1	97%	70%	130%	98%	80%	120%	87%	70%	130%
Lead	1001566		8	8	0.0%	< 1	108%	70%	130%	94%	80%	120%	89%	70%	130%
Molybdenum	1001566		<0.5	0.5	NA	< 0.5	103%	70%	130%	102%	80%	120%	107%	70%	130%
Nickel	1001566		5	5	0.0%	< 1	95%	70%	130%	99%	80%	120%	93%	70%	130%
Selenium	1001566		<0.4	<0.4	NA	< 0.4	111%	70%	130%	97%	80%	120%	101%	70%	130%
Silver	1001566		<0.2	<0.2	NA	< 0.2	89%	70%	130%	95%	80%	120%	86%	70%	130%
Thallium	1001566		<0.4	<0.4	NA	< 0.4	96%	70%	130%	111%	80%	120%	104%	70%	130%
Uranium	1001566		<0.5	<0.5	NA	< 0.5	100%	70%	130%	108%	80%	120%	108%	70%	130%
Vanadium	1001566		14	15	6.9%	< 1	101%	70%	130%	96%	80%	120%	102%	70%	130%
Zinc	1001566		36	36	0.0%	< 5	99%	70%	130%	101%	80%	120%	100%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:

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http://www.agatlabs.com

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T582085

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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
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
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
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webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 20T582085

Cooler Quantity: 1 BLK (Ice)

Arrival Temperatures: 3.4 | 3.2 | 3.9

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes:

Report Information:

Company: SNC-Lavalin
Contact: Wing Shun Wu
Address: 285 Lesmill Rd, Toronto, ON
Toronto, ON M2B 2V1
Phone: 416-635-5882 Fax:
Reports to be sent to:
1. Email: Wing-Shun.Wu@snclavalin.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☒ Regulation 153/04
Table 9 (Indicate One)
☒ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region ____ (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☒ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd S, Brampton, ON
Sampled By: Andrew Sage
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC-Lavalin
Contact: Wing Shun Wu
Address: 285 Lesmill Rd, Toronto, ON
Email: Wing-Shun.Wu@SNClavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (Incl. Hydrides))	O. Reg 153: ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	O.Reg/S3 ICP/MS Metals					Potentially Hazardous or High Concentration (Y/N)
BH-309B-1	March 5/20	11:05	1	Soil		NA		X														X				
BH-309B-2	↓	11:15	1	Soil	ON HOLD.	NA.																X				
BH-309B-3		11:25	1	Soil		NA																X				
BH-309B-4		11:35	1	Soil	ON HOLD	NA																X				
BH-309B-5	↓	11:45	1	Soil	ON HOLD	NA																X				

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Andrew Sage	Mar 5/20	17:00	Neil Namraaj		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

'20 MAR 6 2:43PM

Page 1 of 1

Nº: T100865

Document ID: DW-78-1511-010

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Date Revised: Mar 2019

AGAT Laboratories

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CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Wing Shun Wu

PROJECT: 671835

AGAT WORK ORDER: 20T582089

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

DATE REPORTED: Mar 16, 2020

PAGES (INCLUDING COVER): 6

VERSION*: 1

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

*Notes

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Certificate of Analysis

AGAT WORK ORDER: 20T582089

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-06

DATE REPORTED: 2020-03-16

		SAMPLE DESCRIPTION:		BH-306B-2	BH-306B-22	BH-306B-3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2020-03-05	2020-03-05	2020-03-05
Parameter	Unit	G / S	RDL	1001561	1001562	1001563
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	5	5	5
Barium	µg/g	220	2	98	78	121
Beryllium	µg/g	2.5	0.5	0.6	0.6	0.7
Boron	µg/g	36	5	8	9	6
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	24	20	24
Cobalt	µg/g	22	0.5	10.8	10.9	12.2
Copper	µg/g	92	1	24	24	22
Lead	µg/g	120	1	10	10	11
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	82	1	22	21	26
Selenium	µg/g	1.5	0.4	<0.4	<0.4	0.6
Silver	µg/g	0.5	0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4
Uranium	µg/g	2.5	0.5	0.5	0.6	0.8
Vanadium	µg/g	86	1	32	29	37
Zinc	µg/g	290	5	74	58	71

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T582089

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-06

DATE REPORTED: 2020-03-16

				SAMPLE DESCRIPTION:	BH-306B-1
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2020-03-05
Parameter	Unit	G / S	RDL	1001560	
pH, 2:1 CaCl2 Extraction	pH Units		NA	11.4	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

1001560 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories
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Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: 671835
SAMPLING SITE:

AGAT WORK ORDER: 20T582089
ATTENTION TO: Wing Shun Wu
SAMPLED BY:

Soil Analysis

RPT Date: Mar 16, 2020

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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	998610		7.26	7.25	0.1%	NA	101%	80%	120%						
O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	1001566		<0.8	<0.8	NA	< 0.8	119%	70%	130%	96%	80%	120%	90%	70%	130%
Arsenic	1001566		3	3	NA	< 1	105%	70%	130%	95%	80%	120%	98%	70%	130%
Barium	1001566		17	18	5.7%	< 2	107%	70%	130%	100%	80%	120%	102%	70%	130%
Beryllium	1001566		<0.5	<0.5	NA	< 0.5	93%	70%	130%	108%	80%	120%	100%	70%	130%
Boron	1001566		<5	<5	NA	< 5	83%	70%	130%	115%	80%	120%	98%	70%	130%
Cadmium	1001566		<0.5	<0.5	NA	< 0.5	107%	70%	130%	97%	80%	120%	97%	70%	130%
Chromium	1001566		7	7	NA	< 5	101%	70%	130%	93%	80%	120%	93%	70%	130%
Cobalt	1001566		3.0	3.1	3.3%	< 0.5	97%	70%	130%	98%	80%	120%	95%	70%	130%
Copper	1001566		6	6	0.0%	< 1	97%	70%	130%	98%	80%	120%	87%	70%	130%
Lead	1001566		8	8	0.0%	< 1	108%	70%	130%	94%	80%	120%	89%	70%	130%
Molybdenum	1001566		<0.5	0.5	NA	< 0.5	103%	70%	130%	102%	80%	120%	107%	70%	130%
Nickel	1001566		5	5	0.0%	< 1	95%	70%	130%	99%	80%	120%	93%	70%	130%
Selenium	1001566		<0.4	<0.4	NA	< 0.4	111%	70%	130%	97%	80%	120%	101%	70%	130%
Silver	1001566		<0.2	<0.2	NA	< 0.2	89%	70%	130%	95%	80%	120%	86%	70%	130%
Thallium	1001566		<0.4	<0.4	NA	< 0.4	96%	70%	130%	111%	80%	120%	104%	70%	130%
Uranium	1001566		<0.5	<0.5	NA	< 0.5	100%	70%	130%	108%	80%	120%	108%	70%	130%
Vanadium	1001566		14	15	6.9%	< 1	101%	70%	130%	96%	80%	120%	102%	70%	130%
Zinc	1001566		36	36	0.0%	< 5	99%	70%	130%	101%	80%	120%	100%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:

AGAT Laboratories

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http://www.agatlabs.com

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T582089

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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
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
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 20T582089

Cooler Quantity: 1 Blk (ice)
Arrival Temperatures: 3.4 3.2 3.9

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

Report Information:

Company: SNC-Lavalin
Contact: Wing Shun-Wu
Address: 235 Lesmill Rd, Toronto, ON M3B 2V1
Phone: 416-635-5882 Fax: —
Reports to be sent to:
1. Email: Wing-Shun.Wu@snclavalin.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 9 (Indicate One)
☒ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region ____ (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a **Record of Site Condition**? ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☒ No

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply): ____

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

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

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd S, Brampton, ON
Sampled By: Andrew Suge
AGAT Quote #: ____ PO. ____
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC-Lavalin
Contact: Wing Shun-Wu
Address: 285 Lesmill Rd, Toronto
Email: Wing-Shun-Wu@snclavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	O Reg 153: Metals and Inorganics	All Metals (excl. Hydrides)	Hydride Metals	153 Metals (Incl. Hydrides)	ORPs: B-HWS	Cl	CN	Cr6+	EC	FOC	Hg	pH	SAR	Full Metals Scan	Regulator/Custom Metals	Nutrients: TP	NH3	TKN	NO3	NO2	NO3+NO2	Volatiles: VOC	BTEX	THM	PHCs F1 - F4	ABNs	PAHs	PCBs: Total	Aroclors	Organochlorine Pesticides	TCLP	M&I	VOCs	ABNs	B(a)P	PCBs	Sewer Use	O.Reg 153 ICP MS Metals	Potentially Hazardous or High Concentration (Y/N)
BH-306B-1	Mar.5/20	11:55	1	Soil		NA					X																																		
BH-306B-2	"	12:05	1	Soil		NA																																							X	
BH-306B-22		12:05	1	Soil		NA																																						X	
BH-306B-3		12:15	1	Soil		NA																																						X	
BH-306B-4		12:25	1	Soil	ON HOLD.	NA																																						X	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Andrew Suge	Mar 5/20	17:00	Neil Nannuga		'20 MAR 6 2:43PM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1

Nº: T100866

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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Wing Shun Wu

PROJECT: 671835

AGAT WORK ORDER: 20T602571

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Jul 22, 2020

PAGES (INCLUDING COVER): 7

VERSION*: 1

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

*Notes

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Certificate of Analysis

AGAT WORK ORDER: 20T602571

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-05-19

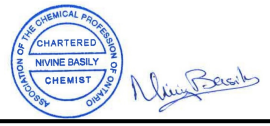
DATE REPORTED: 2020-07-22

SAMPLE DESCRIPTION:				BH-311 SS03	BH-312 SS02
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2020-03-09	2020-03-09
Parameter	Unit	G / S	RDL	1131950	1131951
Antimony	µg/g	7.5	0.8	<0.8	<0.8
Arsenic	µg/g	18	1	7	5
Barium	µg/g	390	2	84	97
Beryllium	µg/g	4	0.5	0.8	0.7
Boron	µg/g	120	5	11	8
Cadmium	µg/g	1.2	0.5	<0.5	<0.5
Chromium	µg/g	160	5	24	25
Cobalt	µg/g	22	0.5	12.7	11.5
Copper	µg/g	140	1	36	28
Lead	µg/g	120	1	9	13
Molybdenum	µg/g	6.9	0.5	<0.5	0.5
Nickel	µg/g	100	1	27	24
Selenium	µg/g	2.4	0.4	0.5	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	0.9	0.6
Vanadium	µg/g	86	1	34	34
Zinc	µg/g	340	5	58	64

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T602571
PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE:

ATTENTION TO: Wing Shun Wu
SAMPLED BY:

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

DATE RECEIVED: 2020-05-19

DATE REPORTED: 2020-07-22

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: BH-301 SS01	BH-301 SS03	BH-304 SS01	BH-304 SS02	BH-305 SS01	BH-305 SS02	BH-306 SS01	BH-306 SS02
				SAMPLE TYPE: Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED: 2020-03-03	2020-03-03	2020-03-10	2020-03-10	2020-03-03	2020-03-03	2020-03-03	2020-03-03
				1131942	1131943	1131944	1131945	1131946	1131947	1131948	1131949
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	11.6	8.36	8.06	7.49	10.5	7.94	8.42	7.35

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: BH-311 SS03	BH-312 SS02	BH-313 SS01
				SAMPLE TYPE: Soil	Soil	Soil
				DATE SAMPLED: 2020-03-09	2020-03-09	2020-03-06
				1131950	1131951	1131952
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.95	9.61	7.92

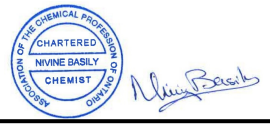
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils
Guideline values are for general reference only.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

1131942-1131952 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

pH, 2:1 CaCl2 Extraction analysis was not completed within the holding time.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Guideline Violation

AGAT WORK ORDER: 20T602571

PROJECT: 671835

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1131942	BH-301 SS01	ON T3 S RPI CT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	11.6
1131946	BH-305 SS01	ON T3 S RPI CT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.5
1131951	BH-312 SS02	ON T3 S RPI CT	O. Reg. 153(511) - ORPs (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	9.61

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T602571

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Jul 22, 2020			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1147197		7.51	7.55	0.5%	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.															
O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	1129076		<0.8	<0.8	NA	< 0.8	100%	70%	130%	99%	80%	120%	90%	70%	130%
Arsenic	1129076		2	2	NA	< 1	101%	70%	130%	103%	80%	120%	105%	70%	130%
Barium	1129076		52	54	5.0%	< 2	104%	70%	130%	104%	80%	120%	106%	70%	130%
Beryllium	1129076		<0.5	<0.5	NA	< 0.5	99%	70%	130%	100%	80%	120%	98%	70%	130%
Boron	1129076		<5	<5	NA	< 5	101%	70%	130%	104%	80%	120%	85%	70%	130%
Cadmium	1129076		<0.5	<0.5	NA	< 0.5	99%	70%	130%	100%	80%	120%	106%	70%	130%
Chromium	1129076		<5	11	NA	< 5	100%	70%	130%	107%	80%	120%	106%	70%	130%
Cobalt	1129076		4.6	4.7	1.9%	< 0.5	103%	70%	130%	104%	80%	120%	101%	70%	130%
Copper	1129076		<1	9	NA	< 1	92%	70%	130%	110%	80%	120%	107%	70%	130%
Lead	1129076		4	4	NA	< 1	106%	70%	130%	100%	80%	120%	101%	70%	130%
Molybdenum	1129076		<0.5	<0.5	NA	< 0.5	101%	70%	130%	103%	80%	120%	109%	70%	130%
Nickel	1129076		11	10	2.1%	< 1	102%	70%	130%	102%	80%	120%	98%	70%	130%
Selenium	1129076		<0.4	<0.4	NA	< 0.4	99%	70%	130%	102%	80%	120%	103%	70%	130%
Silver	1129076		<0.2	<0.2	NA	< 0.2	96%	70%	130%	112%	80%	120%	101%	70%	130%
Thallium	1129076		<0.4	<0.4	NA	< 0.4	107%	70%	130%	96%	80%	120%	98%	70%	130%
Uranium	1129076		<0.5	<0.5	NA	< 0.5	105%	70%	130%	96%	80%	120%	101%	70%	130%
Vanadium	1129076		20	21	1.6%	< 1	100%	70%	130%	101%	80%	120%	101%	70%	130%
Zinc	1129076		<5	22	NA	< 5	96%	70%	130%	106%	80%	120%	106%	70%	130%
Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.															
O. Reg. 153(511) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1149995		7.87	7.83	0.5%	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.															

Certified By:

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T602571

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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
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
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

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Chain of Custody Record

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

Laboratory Use Only
Work Order #: 20T602571
Cooler Quantity: 1 M Blue
Arrival Temperatures: 16.6 | 16.3 | 16.4
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: NO ONICE

Report Information:
Company: SNC-Lavalin
Contact: Wing-Shun Wu
Address: 235 Lesmill Rd. Toronto, ON M3B 2V1
Phone: 416-635-5882 Fax:
Reports to be sent to:
1. Email: Wing-Shun.Wu@SNClavalin.com
2. Email:

Regulatory Requirements: ☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region ____ (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☒ No

Turnaround Time (TAT) Required:
Regular TAT ☒ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Project Information:
Project: 671835
Site Location: 25 Rutherford Rd S, Brampton, ON
Sampled By: N. Wu
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company: SNC-Lavalin - Payables@SNClavalin.com
Contact:
Address:
Email:

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	Metals and Inorganics: ☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides)	O. Reg 153 ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☒ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	O. Reg 153 ICPMS Metals				Potentially Hazardous or High Concentration (Y/N)
BH-301 SS01	Mar 3, 20	9:30A	1 bag	Soil		NA		X																	
BH-301 SS03	↓	10:00A	1 bag					X																	
BH-304 SS01	Mar 10, 20	12:00P	1 bag					X																	
BH-304 SS02	↓	12:15P	1 bag					X																	
BH-305 SS01	Mar 3, 20	10:00A	1 bag					X																	
BH-305 SS02	↓	10:15A	1 bag					X																	
BH-306 SS01	Mar 3, 20	1:15P	1 bag					X																	
BH-306 SS02	↓	1:30P	1 bag					X																	
BH-311 SS03	Mar 9, 20	11:30A	1																X						
BH-312 SS02	↓	1:30P	1																X						
BH-313 SS01	Mar 6, 20	3:30P	1 bag			↓		X																	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
W. Wu	May 15, 20	2:15P	SIMRAN	May 19/20	9:55am
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1
N°: T 103617

Document ID: DW 78-1511-010

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Date Issued: March 22, 2019

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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http://www.agatlabs.com

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Wing Shun Wu

PROJECT: 671835

AGAT WORK ORDER: 20T602567

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Jul 22, 2020

PAGES (INCLUDING COVER): 5

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

AGAT WORK ORDER: 20T602567

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-05-19

DATE REPORTED: 2020-07-22

SAMPLE DESCRIPTION:				BH-313 SS03	BH-317 SS01	BH-317 SS04
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2020-03-06	2020-03-04	2020-03-04
Parameter	Unit	G / S	RDL	1131895	1131898	1131899
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.78	8.09	8.01

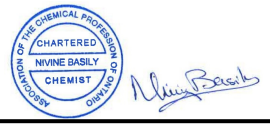
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils
Guideline values are for general reference only.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

1131895-1131899 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

pH, 2:1 CaCl2 Extraction analysis was not completed within the holding time.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



AGAT Laboratories

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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T602567

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Jul 22, 2020			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) - ORPs (Soil)															
pH, 2:1 CaCl2 Extraction	1131895	1131895	7.78	7.71	0.9%	NA	100%	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.

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T602567

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: SNC-Lavalin Inc
Contact: Wing-Shun Wu
Address: 235 Lesmill Rd. Toronto, ON M3B 2V1
Phone: 416-635-5882 Fax:
Reports to be sent to:
1. Email: wing-shun.wu@snclavalin.com
2. Email:

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd S, Brampton
Sampled By: W.Wu
AGAT Quote #: PO:
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company: Payables@snclavalin.com
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 558

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture

Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table ____ (Indicate One)
Sample from APEC?
☐ Yes
☐ No
☐ Stockpile ☐ In-situ

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☑ Yes ☐ No

Report Guideline on Certificate of Analysis ☐ Yes ☑ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 20T602567
Cooler Quantity: 1 M Blue
Arrival Temperatures: 16.3 | 16.4 | 16.6
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ON ICE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics, inc. EC/SAR	O. Reg 153: Metals - ICPMS, ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs, Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Excess Soils SPLP Rainwater Leach: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package: pH, ICPMS Metals, BTEX, F1-F4, Salt - EC/SAR	24	Potentially Hazardous or High Concentration (Y/N)
BH-313 SS03	Mar 6, 20	3:45 AM/PM	1 Jar	Soil		N/A										X	
BH-317 SS01	Mar 4, 20	1:45 AM/PM	1 Jar	↓		↓										X	
BH-317 SS04	↓	2:05 AM/PM	1 Jar	↓		↓										X	
		AM/PM															
		AM/PM															
		AM/PM															
		AM/PM															
		AM/PM															
		AM/PM															
		AM/PM															
		AM/PM															

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
W. Wu	May 15, 20	2:15	SIMRAN	May 19/20	9:55 am
					Page 1 of 1
					Nº:

APPENDIX H

Certificates of Analysis
(Ground Water)

AGAT Laboratories

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CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Wing Shun Wu

PROJECT: 671835

AGAT WORK ORDER: 20T587358

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

DATE REPORTED: May 01, 2020

PAGES (INCLUDING COVER): 20

VERSION*: 1

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

*Notes

VERSION 1: From the requested analyses the lab has been able to analyze mercury, hexavalent chromium and cyanide only from the Metals and Inorganics package for sample MW-103.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-312	MW-312D	MW-101	BH19-2	MW-103
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		2020-03-21	2020-03-21	2020-03-20	2020-03-20	2020-03-20
Parameter	Unit	G / S	RDL	1047001	1047002	1047003	1047004	1047006
Naphthalene	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	290	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	380	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	73	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	5.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benz(a)anthracene	µg/L	1.8	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	0.7	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Naphthalene	µg/L	1500	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits						
Naphthalene-d8	%	50-140		60	61	109	86	86
Acenaphthene-d10	%	50-140		69	65	119	106	118
Chrysene-d12	%	50-140		64	64	116	107	116

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1047001-1047006 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: NPopowkolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-312	Field Blank
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2020-03-20	2020-03-20
Parameter	Unit	G / S	RDL	1046999	1047009
Benzene	µg/L	44	0.20	<0.20	<0.20
Toluene	µg/L	14000	0.20	<0.20	<0.20
Ethylbenzene	µg/L	1800	0.10	<0.10	<0.10
Xylenes (Total)	µg/L	3300	0.20	<0.20	<0.20
F1 (C6 - C10)	µg/L		25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	420	25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA
Surrogate	Unit	Acceptable Limits			
Terphenyl	%	60-140		79	83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1046999-1047009 The C6-C10 fraction is calculated using Toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The 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 153/04, results are considered valid without determining the PAH contribution if not requested by the client.
NA = Not Applicable

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-101	BH19-2	MW-103
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		2020-03-20	2020-03-20	2020-03-20
Parameter	Unit	G / S	RDL	1047003	1047004	1047006
Benzene	µg/L	44	0.20	<0.20	<0.20	<0.20
Toluene	µg/L	14000	0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	1800	0.10	<0.10	<0.10	<0.10
Xylenes (Total)	µg/L	3300	0.20	<0.20	<0.20	<0.20
F1 (C6-C10)	µg/L		25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	420	25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA
Surrogate	Unit	Acceptable Limits				
Terphenyl	%	60-140		120	87	118

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1047003-1047006 The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The 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: NPopowkolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-312D	Trip Blank
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2020-03-20	2020-03-20
Parameter	Unit	G / S	RDL	1047000	1047008
Benzene	µg/L	44	0.20	<0.20	<0.20
Toluene	µg/L	14000	0.20	<0.20	<0.20
Ethylbenzene	µg/L	1800	0.10	<0.10	<0.10
Xylenes (Total)	µg/L	3300	0.20	<0.20	<0.20
F1 (C6-C10)	µg/L		25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	420	25	<25	<25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1047000-1047008 The C6-C10 fraction is calculated using Toluene response factor.
Total C6-C10 results are corrected for BTEX contributions.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
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.
Extraction and holding times were met for this sample.
NA = Not Applicable

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - CrVI & Hg (Water)

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-103
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2020-03-21
Parameter	Unit	G / S	RDL	1047007
Mercury	µg/L	0.29	0.02	<0.02
Chromium VI	µg/L	110	5	<5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1047007 Hexavalent Chromium analysis was performed beyond recommended hold time as per Client's request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Free Cyanide (Water)

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-103
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2020-03-20
Parameter	Unit	G / S	RDL	1047006
Cyanide, Free	µg/L	52	2	<2

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
AMANJOT BHELA
CHEMIST

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 20T587358

PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		MW-307		MW-312		MW-101		BH19-2
		SAMPLE TYPE:		Water		Water		Water		Water
		DATE SAMPLED:		2020-03-20		2020-03-21		2020-03-20		2020-03-20
Parameter	Unit	G / S	RDL	1046998	RDL	1047001	RDL	1047003	RDL	1047004
Dissolved Antimony	µg/L	16000	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	2.7
Dissolved Arsenic	µg/L	1500	1.0	3.7	1.0	3.6	1.0	4.7	1.0	<1.0
Dissolved Barium	µg/L	23000	2.0	102	2.0	82.6	2.0	265	2.0	86.2
Dissolved Beryllium	µg/L	53	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50
Dissolved Boron	µg/L	36000	100	2110	10.0	858	10.0	139	10.0	37.0
Dissolved Cadmium	µg/L	2.1	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20
Dissolved Chromium	µg/L	640	2.0	7.8	2.0	<2.0	2.0	2.1	2.0	<2.0
Dissolved Cobalt	µg/L	52	0.50	4.41	0.50	1.06	0.50	4.17	0.50	<0.50
Dissolved Copper	µg/L	69	1.0	5.8	1.0	3.2	1.0	11.0	1.0	7.2
Dissolved Lead	µg/L	20	0.50	2.50	0.50	<0.50	0.50	3.53	0.50	<0.50
Dissolved Molybdenum	µg/L	7300	0.50	4.28	0.50	19.9	0.50	<0.50	0.50	2.77
Dissolved Nickel	µg/L	390	1.0	5.2	1.0	4.8	1.0	29.4	1.0	1.1
Dissolved Selenium	µg/L	50	1.0	1.5	1.0	2.0	1.0	<1.0	1.0	<1.0
Dissolved Silver	µg/L	1.2	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20
Dissolved Thallium	µg/L	400	0.30	<0.30	0.30	<0.30	0.30	<0.30	0.30	<0.30
Dissolved Uranium	µg/L	330	0.50	1.40	0.50	4.03	0.50	3.83	0.50	1.73
Dissolved Vanadium	µg/L	200	0.40	7.69	0.40	1.36	0.40	4.12	0.40	0.74
Dissolved Zinc	µg/L	890	5.0	12.4	5.0	<5.0	5.0	15.5	5.0	27.0
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	110	5	<5	5	<5	5	<5	5	<5
Cyanide, Free	µg/L	52	2	<2	2	<2	2	<2	2	<2
Dissolved Sodium	µg/L	1800000	100	123000	250	186000	500	893000	250	213000
Chloride	µg/L	1800000	500	183000	1000	276000	10000	2900000	2000	588000
Electrical Conductivity	uS/cm	NA	2	1410	2	1970	2	9720	2	2350
pH	pH Units		NA	8.00	NA	7.78	NA	7.33	NA	7.74

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 20T587358
PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE:

ATTENTION TO: Wing Shun Wu
SAMPLED BY:

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

DATE RECEIVED: 2020-03-23

DATE REPORTED: 2020-05-01

		SAMPLE DESCRIPTION:		BH19-22
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2020-03-20
Parameter	Unit	G / S	RDL	1047005
Dissolved Antimony	µg/L	16000	1.0	2.7
Dissolved Arsenic	µg/L	1500	1.0	<1.0
Dissolved Barium	µg/L	23000	2.0	83.7
Dissolved Beryllium	µg/L	53	0.50	<0.50
Dissolved Boron	µg/L	36000	10.0	33.1
Dissolved Cadmium	µg/L	2.1	0.20	<0.20
Dissolved Chromium	µg/L	640	2.0	<2.0
Dissolved Cobalt	µg/L	52	0.50	<0.50
Dissolved Copper	µg/L	69	1.0	7.1
Dissolved Lead	µg/L	20	0.50	<0.50
Dissolved Molybdenum	µg/L	7300	0.50	2.88
Dissolved Nickel	µg/L	390	1.0	1.5
Dissolved Selenium	µg/L	50	1.0	<1.0
Dissolved Silver	µg/L	1.2	0.20	<0.20
Dissolved Thallium	µg/L	400	0.30	<0.30
Dissolved Uranium	µg/L	330	0.50	1.72
Dissolved Vanadium	µg/L	200	0.40	0.62
Dissolved Zinc	µg/L	890	5.0	21.4
Mercury	µg/L	0.29	0.02	<0.02
Chromium VI	µg/L	110	5	<5
Cyanide, Free	µg/L	52	2	<2
Dissolved Sodium	µg/L	1800000	250	216000
Chloride	µg/L	1800000	1000	526000
Electrical Conductivity	uS/cm	NA	2	2180
pH	pH Units		NA	7.87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

1046998-1047005 Elevated RDLs indicate the degree of sample dilutions prior to the analysis to keep analytes within the calibration range or reduce matrix interference.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Guideline Violation

AGAT WORK ORDER: 20T587358

PROJECT: 671835

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Wing Shun Wu

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
1047003	MW-101	ON T9 GW	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	1800000	2900000

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: 671835
SAMPLING SITE:

AGAT WORK ORDER: 20T587358
ATTENTION TO: Wing Shun Wu
SAMPLED BY:

Trace Organics Analysis

RPT Date: May 01, 2020

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 (Water)															
Benzene	1041074		< 0.20	< 0.20	NA	< 0.20	107%	50%	140%	101%	60%	130%	105%	50%	140%
Toluene	1041074		< 0.20	< 0.20	NA	< 0.20	110%	50%	140%	103%	60%	130%	103%	50%	140%
Ethylbenzene	1041074		< 0.10	< 0.10	NA	< 0.10	104%	50%	140%	98%	60%	130%	107%	50%	140%
Xylenes (Total)	1041074		< 0.20	< 0.20	NA	< 0.20	101%	50%	140%	98%	60%	130%	97%	50%	140%
F1 (C6 - C10)	1041074		< 25	< 25	NA	< 25	96%	60%	140%	101%	60%	140%	104%	60%	140%
F2 (C10 to C16)		TW	< 100	< 100	NA	< 100	110%	60%	140%	91%	60%	140%	81%	60%	140%
F3 (C16 to C34)		TW	< 100	< 100	NA	< 100	105%	60%	140%	117%	60%	140%	99%	60%	140%
F4 (C34 to C50)		TW	< 100	< 100	NA	< 100	95%	60%	140%	122%	60%	140%	104%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene		TW	< 0.20	< 0.20	NA	< 0.20	110%	50%	140%	101%	50%	140%	99%	50%	140%
Acenaphthylene		TW	< 0.20	< 0.20	NA	< 0.20	119%	50%	140%	104%	50%	140%	105%	50%	140%
Acenaphthene		TW	< 0.20	< 0.20	NA	< 0.20	111%	50%	140%	107%	50%	140%	107%	50%	140%
Fluorene		TW	< 0.20	< 0.20	NA	< 0.20	113%	50%	140%	106%	50%	140%	109%	50%	140%
Phenanthrene		TW	< 0.10	< 0.10	NA	< 0.10	113%	50%	140%	110%	50%	140%	113%	50%	140%
Anthracene		TW	< 0.10	< 0.10	NA	< 0.10	114%	50%	140%	112%	50%	140%	116%	50%	140%
Fluoranthene		TW	< 0.20	< 0.20	NA	< 0.20	107%	50%	140%	110%	50%	140%	114%	50%	140%
Pyrene		TW	< 0.20	< 0.20	NA	< 0.20	112%	50%	140%	112%	50%	140%	115%	50%	140%
Benz(a)anthracene		TW	< 0.20	< 0.20	NA	< 0.20	69%	50%	140%	89%	50%	140%	98%	50%	140%
Chrysene		TW	< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	103%	50%	140%	107%	50%	140%
Benzo(b)fluoranthene		TW	< 0.10	< 0.10	NA	< 0.10	74%	50%	140%	97%	50%	140%	102%	50%	140%
Benzo(k)fluoranthene		TW	< 0.10	< 0.10	NA	< 0.10	95%	50%	140%	118%	50%	140%	95%	50%	140%
Benzo(a)pyrene		TW	< 0.01	< 0.01	NA	< 0.01	115%	50%	140%	100%	50%	140%	108%	50%	140%
Indeno(1,2,3-cd)pyrene		TW	< 0.20	< 0.20	NA	< 0.20	80%	50%	140%	99%	50%	140%	69%	50%	140%
Dibenz(a,h)anthracene		TW	< 0.20	< 0.20	NA	< 0.20	89%	50%	140%	94%	50%	140%	62%	50%	140%
Benzo(g,h,i)perylene		TW	< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	103%	50%	140%	67%	50%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene		TW	< 0.20	< 0.20	NA	< 0.20	79%	50%	140%	95%	50%	140%	94%	50%	140%
Acenaphthylene		TW	< 0.20	< 0.20	NA	< 0.20	84%	50%	140%	75%	50%	140%	85%	50%	140%
Acenaphthene		TW	< 0.20	< 0.20	NA	< 0.20	76%	50%	140%	84%	50%	140%	97%	50%	140%
Fluorene		TW	< 0.20	< 0.20	NA	< 0.20	82%	50%	140%	86%	50%	140%	84%	50%	140%
Phenanthrene		TW	< 0.10	< 0.10	NA	< 0.10	84%	50%	140%	95%	50%	140%	82%	50%	140%
Anthracene		TW	< 0.10	< 0.10	NA	< 0.10	79%	50%	140%	82%	50%	140%	96%	50%	140%
Fluoranthene		TW	< 0.20	< 0.20	NA	< 0.20	86%	50%	140%	76%	50%	140%	75%	50%	140%
Pyrene		TW	< 0.20	< 0.20	NA	< 0.20	84%	50%	140%	84%	50%	140%	98%	50%	140%
Benz(a)anthracene		TW	< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	86%	50%	140%	88%	50%	140%
Chrysene		TW	< 0.10	< 0.10	NA	< 0.10	76%	50%	140%	96%	50%	140%	86%	50%	140%
Benzo(b)fluoranthene		TW	< 0.10	< 0.10	NA	< 0.10	110%	50%	140%	94%	50%	140%	92%	50%	140%
Benzo(k)fluoranthene		TW	< 0.10	< 0.10	NA	< 0.10	91%	50%	140%	82%	50%	140%	81%	50%	140%

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC
AGAT WORK ORDER: 20T587358
PROJECT: 671835
ATTENTION TO: Wing Shun Wu
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: May 01, 2020			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
Benzo(a)pyrene	TW	< 0.01	< 0.01	NA	< 0.01	118%	50%	140%	81%	50%	140%	76%	50%	140%	
Indeno(1,2,3-cd)pyrene	TW	< 0.20	< 0.20	NA	< 0.20	115%	50%	140%	78%	50%	140%	94%	50%	140%	
Dibenz(a,h)anthracene	TW	< 0.20	< 0.20	NA	< 0.20	115%	50%	140%	91%	50%	140%	80%	50%	140%	
Benzo(g,h,i)perylene	TW	< 0.20	< 0.20	NA	< 0.20	115%	50%	140%	77%	50%	140%	84%	50%	140%	

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

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: 671835
SAMPLING SITE:

AGAT WORK ORDER: 20T587358
ATTENTION TO: Wing Shun Wu
SAMPLED BY:

Water Analysis

RPT Date: May 01, 2020			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	1046998	1046998	<1.0	<1.0	NA	< 1.0	98%	70%	130%	102%	80%	120%	106%	70%	130%
Dissolved Arsenic	1046998	1046998	3.7	3.7	NA	< 1.0	101%	70%	130%	109%	80%	120%	108%	70%	130%
Dissolved Barium	1046998	1046998	102	98.7	3.3%	< 2.0	96%	70%	130%	102%	80%	120%	111%	70%	130%
Dissolved Beryllium	1046998	1046998	<0.50	<0.50	NA	< 0.50	101%	70%	130%	106%	80%	120%	115%	70%	130%
Dissolved Boron	1046998	1046998	2110	1910	10.0%	< 10.0	99%	70%	130%	107%	80%	120%	130%	70%	130%
Dissolved Cadmium	1046998	1046998	<0.20	<0.20	NA	< 0.20	99%	70%	130%	100%	80%	120%	103%	70%	130%
Dissolved Chromium	1046998	1046998	7.8	8.1	NA	< 2.0	99%	70%	130%	104%	80%	120%	108%	70%	130%
Dissolved Cobalt	1046998	1046998	4.41	4.95	11.5%	< 0.50	100%	70%	130%	105%	80%	120%	107%	70%	130%
Dissolved Copper	1046998	1046998	5.8	6.1	5.0%	< 1.0	101%	70%	130%	100%	80%	120%	103%	70%	130%
Dissolved Lead	1046998	1046998	2.50	2.41	NA	< 0.50	98%	70%	130%	104%	80%	120%	98%	70%	130%
Dissolved Molybdenum	1046998	1046998	4.28	4.55	6.1%	< 0.50	101%	70%	130%	103%	80%	120%	108%	70%	130%
Dissolved Nickel	1046998	1046998	5.2	5.3	1.9%	< 1.0	99%	70%	130%	105%	80%	120%	106%	70%	130%
Dissolved Selenium	1046998	1046998	1.5	2.7	NA	< 1.0	98%	70%	130%	100%	80%	120%	98%	70%	130%
Dissolved Silver	1046998	1046998	<0.20	<0.20	NA	< 0.20	100%	70%	130%	102%	80%	120%	96%	70%	130%
Dissolved Thallium	1046998	1046998	<0.30	<0.30	NA	< 0.30	100%	70%	130%	105%	80%	120%	97%	70%	130%
Dissolved Uranium	1046998	1046998	1.40	1.36	NA	< 0.50	98%	70%	130%	112%	80%	120%	108%	70%	130%
Dissolved Vanadium	1046998	1046998	7.69	7.54	2.0%	< 0.40	102%	70%	130%	108%	80%	120%	113%	70%	130%
Mercury	1046998	1046998	<0.02	<0.02	NA	< 0.02	99%	70%	130%	101%	80%	120%	96%	70%	130%
Chromium VI	1046998	1046998	<5	<5	NA	< 5	101%	70%	130%	101%	80%	120%	98%	70%	130%
Cyanide, Free	1046045		<2	<2	NA	< 2	103%	70%	130%	95%	80%	120%	89%	70%	130%
Dissolved Sodium	1046998	1046998	123000	125000	1.6%	< 50	94%	70%	130%	94%	80%	120%	97%	70%	130%
Chloride	1049439		102000	102000	0.0%	< 100	94%	70%	130%	109%	80%	120%	108%	70%	130%
Electrical Conductivity	1046998	1046998	1410	1410	0.0%	< 2	105%	90%	110%	NA			NA		
pH	1046998	1046998	8.00	8.00	0.0%	NA	100%	90%	110%	NA			NA		

Comments: NA signifies Not Applicable.
If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - CrVI & Hg (Water)															
Chromium VI	1084460		<5	<5	NA	< 5	102%	70%	130%	100%	80%	120%	109%	70%	130%

Comments: NA signifies Not Applicable.

If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

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Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T587358

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benz(a)anthracene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Acenaphthene-d10	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Chrysene-d12	ORG-91-5105	modified from EPA SW-846 3510C & 8270E	GC/MS
Benzene	VOL-91-5010	modified from EPA SW-846 5230B & 8260	(P&T)GC/MS
Toluene	VOL-91-5010	modified from EPA SW-846 5030C & 8260D	P&T GC/MS
Ethylbenzene	VOL-91-5010	modified from EPA SW-846 5030C & 8260D	P&T GC/MS
Xylenes (Total)	VOL-91-5010	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

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Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T587358

PROJECT: 671835

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F1 (C6-C10)	VOL-91- 5010	MOE PHC-E3421	P&T GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC E3421	P&T GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	MOE PHC E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	MOE PHC E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
F1 (C6-C10)	VOL-91- 5010	modified from MOE E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE E3421	P&T GC/FID

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 20T587358

PROJECT: 671835

ATTENTION TO: Wing Shun Wu

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6034	modified from SM 3500-CR B	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015 and SM 4500-CN- I	TECHNICON AUTO ANALYZER
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
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

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 20T587358

Cooler Quantity: 2 large

Arrival Temperatures: 5.4 | 6.4 | 1.4
5.0 | 6.0 | 6.1

Custody Seal Intact: ☑ Yes ☐ No ☐ N/A

Notes: ON ICE

Report Information:

Company: SNC-LAVALIN
Contact: Wing-Wu
Address: 235 Lesmill Road, Toronto
Phone: 416.635-5882 Fax:
Reports to be sent to:
1. Email: xss822 Wing-Shun.Wu@SNClavalin.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☑ Regulation 153/04
Table 9 (Indicate One)
☑ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☑ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region ____ (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☑ Yes ☐ No

Report Guideline on Certificate of Analysis ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd. S. Brampton, ON
Sampled By: Sara Akib
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC-Lavalin Attn
Contact: Attn: Accounts Payable
Address: 455 René-Levesque, Montreal, QC
Email: Payables@SNClavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI Y/N	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (Incl. Hydrides))	O. Reg 153: ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	O. Reg 153: Full Metals Scan	O. Reg 153: Regulation/Custom Metals	O. Reg 153: Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	O. Reg 153: Volatiles: ☐ VOC ☒ BTEX ☐ THM	O. Reg 153: PHCs F1 - F4	O. Reg 153: ABNs	O. Reg 153: PAHs	O. Reg 153: PCBs: ☐ Total ☐ Aroclors	O. Reg 153: Organochlorine Pesticides	O. Reg 153: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 153: Sewer Use
MW-307	20/03/03	5:40pm	10	GW	BTEX & PHC on hold PAHs	Y	✓									✓			
MW-312	20/03/03	18:45	4	GW	BTEX-PHC F1 & F4							✓	✓						
MW-312D	20/03/20	18:45	3	GW	BTEX-F1							✓							
MW-312	21/03/20	14:45	6	GW		Y	✓								✓				
MW-312D	21/03/20	14:45	1	GW	Trace of sediment										✓				

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Sara Akib	23/03/20	9:30	NEAL G		

'20MAR23 12:13PM

Page 1 of 3

N°: T075067

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #:

Cooler Quantity: 2 1 large

Arrival Temperatures: 5.4 | 6.4 | 1.4
5.0 | 6.0 | 6.1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ON ICE

Report Information:

Company: SNC-LAVALIN
Contact: Wing Wu
Address: 235 Lesmill Road, Toronto, ON
Phone: 416-635-5882 Fax:
Reports to be sent to:
1. Email: wing-shan.wu@snclavalin.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☑ Regulation 153/04
Table: 9 (Indicate One)
☑ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☑ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region: (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd S. Brampton, ON
Sampled By: Sara Akib
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:
Contact: Accounts Payable
Address:
Email: Payables@snclavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides))	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use
MW-101	20/03/20	14:00	10	GW	trace of sediments	Y	✓					✓	✓		✓					
BH19-2	20/03/20	15:35	10	GW	"	Y	✓					✓	✓		✓					
BH19-22	20/03/20	15:35	5	GW		Y	✓													
MW-103	20/03/20	16:50	7	GW	BTEX, PHC, ~~Metal~~ Trace of sediment		✓					✓	✓		✓					
MW-103	21/03/20	14:00	3	GW	Metal only	Y	✓													

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Sara Akib	23/03/20	9:35	NEAL G		'20 MAR 23 12:13 PM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 3

N°: T075059

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #:

Cooler Quantity:

Arrival Temperatures: See pg 1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Report Information:

Company: SNC-LAVALIN
Contact: 235 Lesmill Rd, Toronto, ON
Address: Wing Wu ← contact
416.635.5882
Phone: X55822 Fax:
Reports to be sent to:
1. Email: Wing-shun.Wu@SNClavalin
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☑ Regulation 153/04
Table 9 *Indicate One*
☑ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region *Indicate One*
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: 671835
Site Location: 25 Rutherford Rd. S, Brampton
Sampled By: Sara Akib
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: SNC
Contact: Account payables
Address:
Email: payables@snclavalin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI Y/N	O. Reg 153: Metals and Inorganics (☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (Incl. Hydrides))	ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ THM ☐ BTEX	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use
Trip Blank	20/03/20	18:00	3	G	BTEX - F1							✓	✓					
Field Blank	20/03/20	18:05	4									✓	✓					

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Sara Akib	9:35 20/03/20		NEAL G		'20 MAR 23 12:13PM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 3 of 3

N°: T075060

Document ID: DIV-78-1511-015

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Date Issued: March 16, 2018

Waybill #131688
KJV Courier
kjvcourier.com

Pickup Information		Delivery Information	
Created:	23-Mar-2020 09:06:44 am	Service:	***Basic Same Day Place B*** ***Delivered By 5pm***
Scheduled:	23-Mar-2020 09:06:45 am	Scheduled:	23-Mar-2020 05:00:00 p
Account # 547.	Reference Number 671835	Delivered:	
Address:	SNC LAVALIN 235 LESMILL ROAD North York ON M3B 2V1	Address:	AGAT LAB 5835 COOPERS AVE MISISSAUGA ON L4Z1Y2
Contact:	FRONT RECEPTION 416635582 sheri.schembri@snclavalin.com	Contact:	SAMPLE RECEPTION 4166355882
Instructions:		Instructions:	

THE CARRIER SHALL NOT BE LIABLE FOR LOSS OR DAMAGE FOR ANY AMOUNT IN EXCESS OF $50.00 UNLESS DECLARED VALUATION STATES OTHERWISE

Declared Value:	$ 0.00

RECEIVED THE ABOVE IN GOOD ORDER AND CONDITION
Signature:

D/

Type	Quantity	Height (IN)	Length (IN)	Width (IN)	Weight (LB)	Total Weight (LB)
Your Packaging	3	0.25	10.00	0.25	25.00	.5.00
Total:	3					75.00

1244701122

AGAT Laboratories

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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Abed Yassine

PROJECT: 671835

AGAT WORK ORDER: 21T778114

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Report Reviewer

DATE REPORTED: Jul 26, 2021

PAGES (INCLUDING COVER): 5

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- 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 guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 21T778114
PROJECT: 671835

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE:25 Rutherford Rd S, Brampton, ON

ATTENTION TO: Abed Yassine
SAMPLED BY:Richard Gearing

O. Reg. 153(511) - Free CN (Water)

DATE RECEIVED: 2021-07-22

DATE REPORTED: 2021-07-26

				SAMPLE DESCRIPTION:	MW19-2
				SAMPLE TYPE:	Water
				DATE SAMPLED:	2021-07-22 12:05
Parameter	Unit	G / S	RDL	2767834	
Cyanide, Free	µg/L	66	2	<2	

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

AGAT Laboratories

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

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 21T778114

PROJECT: 671835

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd S, Brampton, ON

SAMPLED BY:Richard Gearing

Water Analysis

RPT Date: Jul 26, 2021			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) - Free CN (Water)															
Cyanide, Free	2767834	2767834	<2	<2	NA	< 2	94%	70%	130%	100%	80%	120%	116%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By: Iris Verástegui

AGAT Laboratories

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

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 21T778114

PROJECT: 671835

ATTENTION TO: Abed Yassine

SAMPLING SITE:25 Rutherford Rd S, Brampton, ON

SAMPLED BY:Richard Gearing

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER

1 Small

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only
Work Order #: 21T 778114

Cooler Quantity:
Arrival Temperatures: 4.3 | 5.2 | 4.9
Custody Seal Intact: ☑ Yes ☐ No ☐ N/A
Notes: free ice

Report Information:
Company: SNC-Lavalin
Contact: Abed Yassine
Address: 235 Lesmill Rd., Toronto
Phone: 416-788-9730 Fax:
Reports to be sent to:
1. Email: Abed.Yassine@SNClavalin.com
2. Email:

Project Information:
Project: 671835
Site Location: 25 Rutherford Rd. S. Brampton, ON
Sampled By: Richard Gearing
AGAT ID #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company: SNC-Lavalin
Contact: Attn: Accounts Payable
Address: 455 Rene-Levesque, Montreal, QC
Email: Payables@SNClavalin.com

Regulatory Requirements:
(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Excess Soils R406
Table (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a **Record of Site Condition**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT (Most Analysis) ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☑ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays
For 'Same Day' analysis, please contact your AGAT CPM

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	Total PCBs ☐ Aroclor	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Cyanide	Potentially Hazardous or High Concentration (Y/N)
MW19-2	07/22/21	12:05 AM/PM	2	GW	Extra Container	Y											X	
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Richard Gearing	07/22/21	1:25	Daryl Eastman		

Page 1 of 1
N°: T 121857

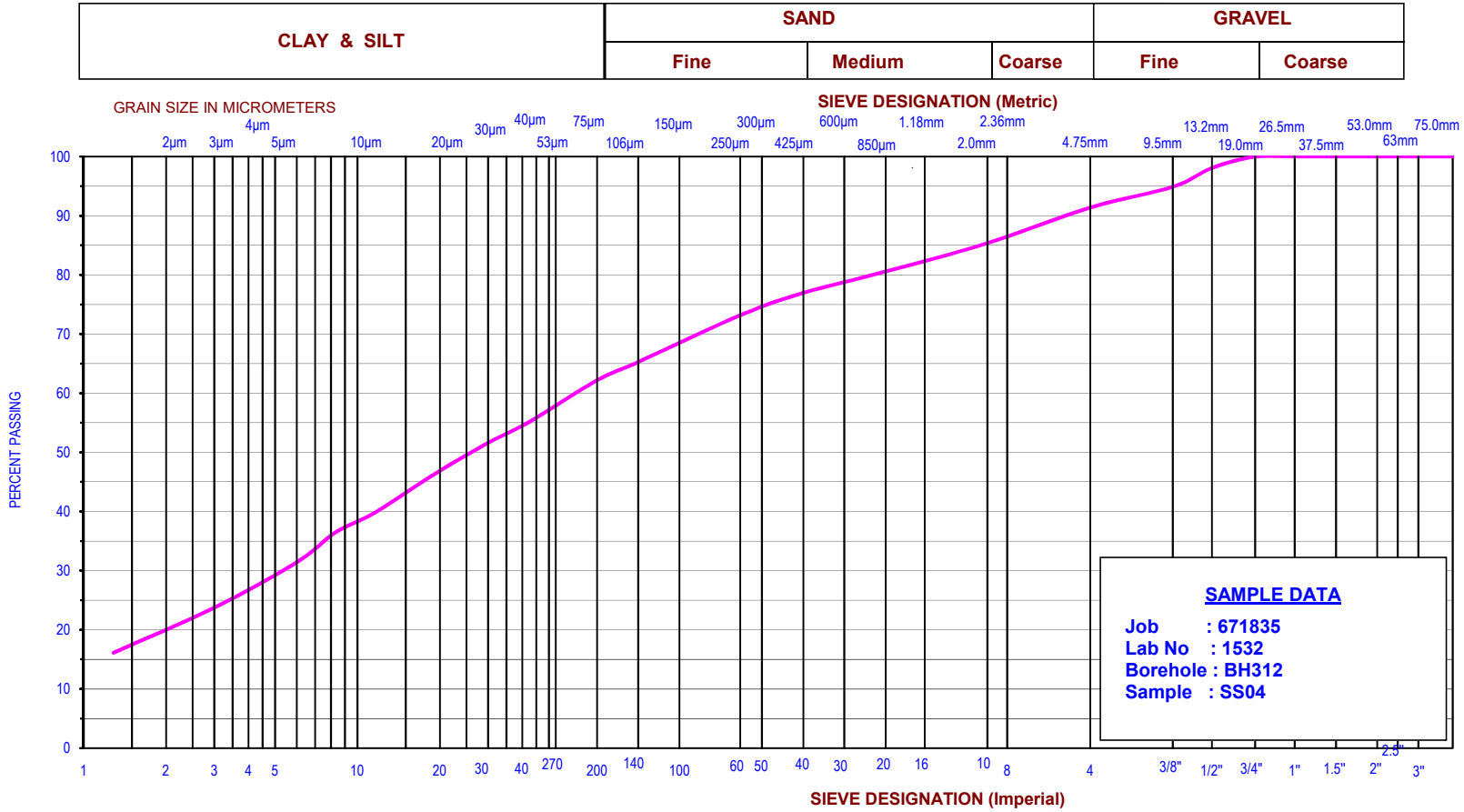
Document ID: DW-78-1511-020
Pink Copy - Client ! Yellow Copy - AGAT ! White Copy- AGAT
Date Issued: [illegible] 2020

APPENDIX I

Grain Size Analysis

SNC·LAVALIN

UNIFIED SOIL CLASSIFICATION SYSTEM



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
	0	9	6	8	15	42	20

SNC-Lavalin GEM Ontario Inc.
401 Hanlan Road
Vaughan, Ontario, Canada, L4L 3T1
905.851.0090 905.851.0091

GRAIN SIZE DISTRIBUTION

SANDY / CLAYEY SILT

trace gravel

Client: City of Brampton

Project: Rutherford Rd South Brampton Geotechnical

Location: 25 Rutherford South Brampton, ON

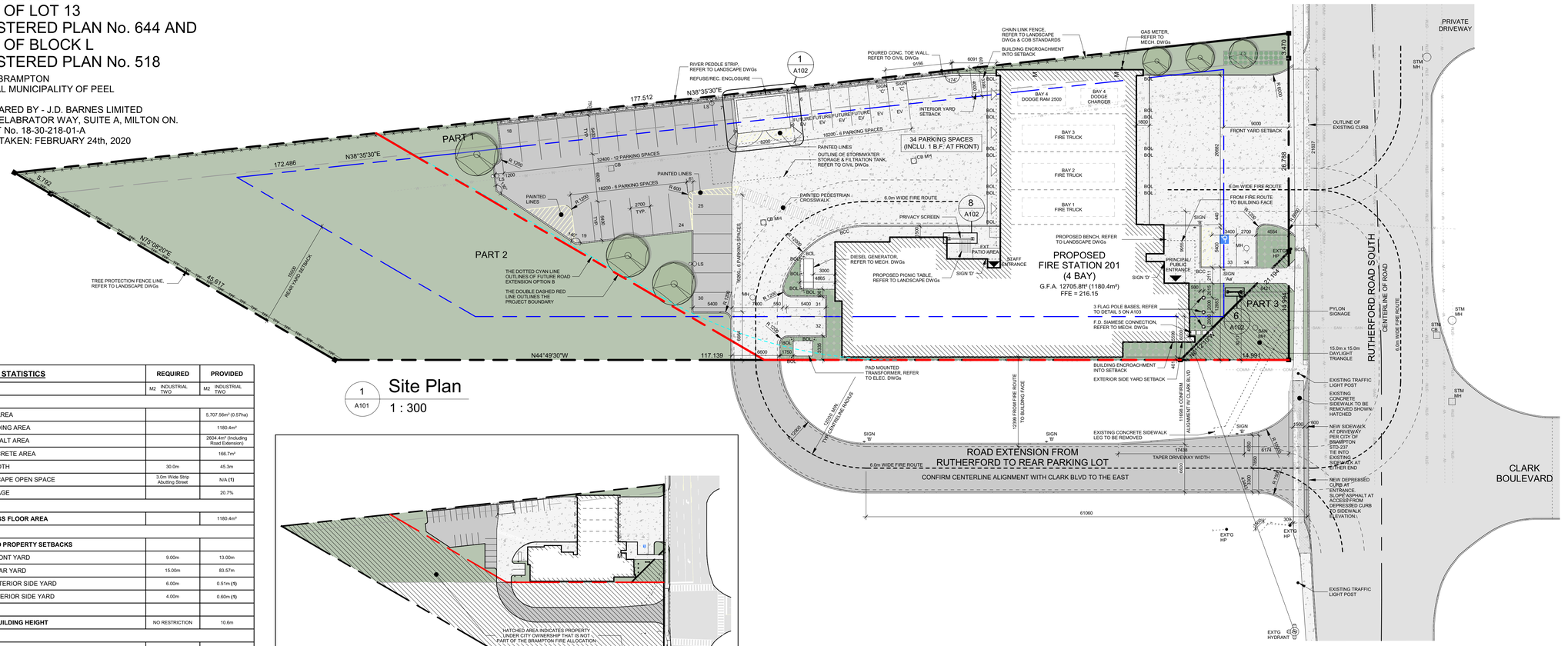
Date: April 2020

INFORMATION TAKEN FROM:

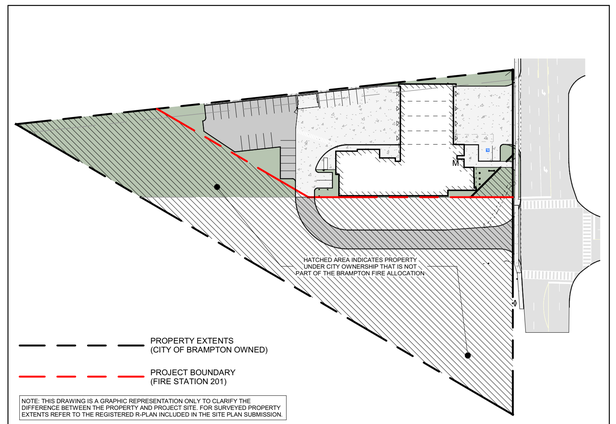
BLOCK A AND PART OF LOT 13 REGISTERED PLAN No. 644 AND PART OF BLOCK L REGISTERED PLAN No. 518

CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL

AS PREPARED BY - J.D. BARNES LIMITED
401 WHEELABRATOR WAY, SUITE A, MILTON ON.
PROJECT No. 18-30-218-01-A
SURVEY TAKEN: FEBRUARY 24th, 2020



1 / A101 Site Plan
1 : 300



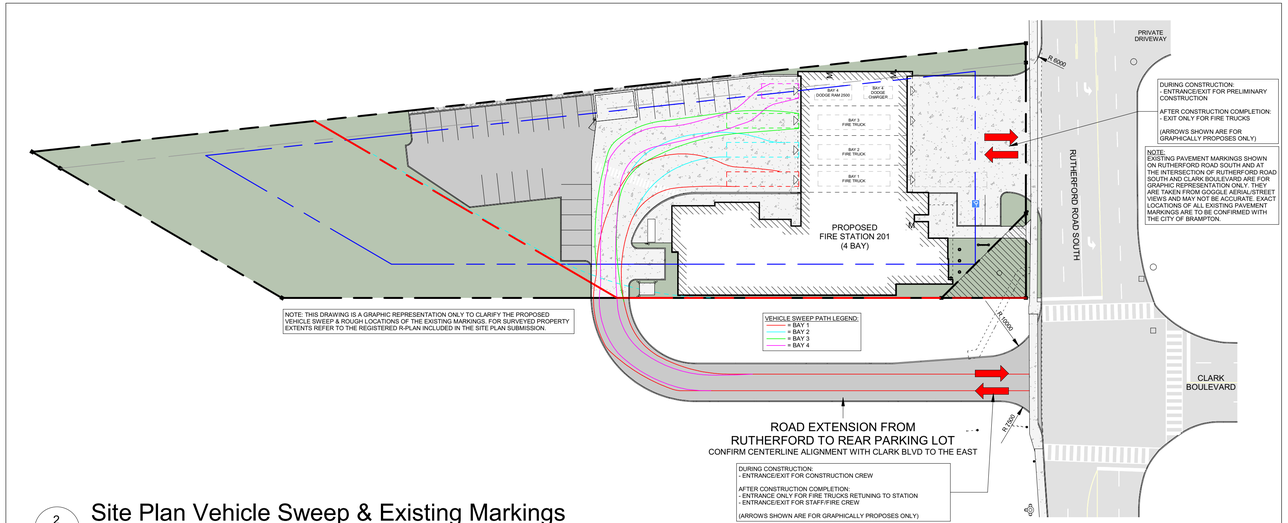
3 / A101 Key Plan - Property Vs Project Site
1 : 1000

PROJECT STATISTICS	REQUIRED	PROVIDED
ZONING	M2 INDUSTRIAL TWO	M2 INDUSTRIAL TWO
TOTAL LOT AREA		5,707.56m² (0.57ha)
TOTAL BUILDING AREA		1180.4m²
TOTAL ASPHALT AREA		2604.4m² (Including Road Extension)
TOTAL CONCRETE AREA		166.7m²
MIN. LOT WIDTH	30.0m	45.3m
MIN. LANDSCAPE OPEN SPACE	3.0m Wide Strip Abutting Street	N/A **(1)**
LOT COVERAGE		20.7%
TOTAL GROSS FLOOR AREA		1180.4m²
BUILDING TO PROPERTY SETBACKS		
MINIMUM FRONT YARD	9.00m	13.00m
MINIMUM REAR YARD	15.00m	83.57m
MINIMUM EXTERIOR SIDE YARD	6.00m	0.51m **(1)**
MINIMUM INTERIOR SIDE YARD	4.00m	0.60m **(1)**
MAXIMUM BUILDING HEIGHT	NO RESTRICTION	10.6m
PARKING		
PARKING SPACES		33 **(1)**
BARRIER FREE PARKING SPACES		1 **(1)** (1 Type A)
TOTAL PARKING SPACES		34 **(1)**
ELECTRIC VEHICLE PARKING SPACES (Spaces Included In Total Above)		2 (+ 4 Future Spaces)
GREEN VEHICLE PARKING SPACES (Spaces Included In Total Above)		
BARRIER FREE ENTRANCES O.B.C. 3.8.1.2. (TOTAL ENTRANCES = 2)	2	2

NOTES

(1) AS PER SECTION 6.13.1 FROM THE CITY OF BRAMPTON COMPREHENSIVE ZONING BY-LAW
"A PUBLIC USE, INCLUDING AN ACCESSORY USE THERETO, OWNED OR LEASED BY THE CORPORATION OF THE CITY OF BRAMPTON IS PERMITTED IN ALL ZONING CATEGORIES AND IS NOT SUBJECT TO REQUIREMENTS AND RESTRICTIONS APPLICABLE TO ANY ZONE CATEGORY."

ITEM	ONTARIO BUILDING CODE DATA MATRIX PARTS 3 & 9				OBC REFERENCE
1	PROJECT DESCRIPTION	■ NEW ☐ ADDITION ☐ ALTERATION ☐ CHANGE OF USE			■ PART 3 FOR NEW BUILDING
2	MAJOR OCCUPANCY(S)	GROUP D & F3			3.2.2.56.
3	BUILDING AREA (m²)	12705.8ft² (1180.4m²)			1.1.3.2.
4	GROSS AREA (m²)	12705.8ft² (1180.4m²)			1.1.3.2.
5	NUMBER OF STOREYS	1 (ONE)			3.2.1.1. & 1.1.3.2.
6	HEIGHT OF BUILDING (m)	10.6m			
7	NUMBER OF STREETS/ACCESS ROUTES	2 (TWO) STREETS AS INDICATED ON DRAWINGS			3.2.2.10. & 3.2.5.5.
8	BUILDING CLASSIFICATION	GROUP D, UP TO 2 STOREYS, SPRINKLERED			3.2.2.56.
9	SPRINKLER SYSTEM PROPOSED	■ ENTIRE BUILDING ☐ ADDITION	☐ IN LIEU OF ROOF RATING ☐ NOT REQUIRED		3.2.2.56.
10	STANDPIPE REQUIRED	☐ YES	■ NO		3.2.9.
11	FIRE ALARM REQUIRED	■ YES	☐ NO		3.2.4.
12	WATER SERVICE/SUPPLY IS ADEQUATE	■ YES	☐ NO		3.2.5.7.
13	HIGH BUILDING	☐ YES	■ NO		3.2.6.
14	PERMITTED CONSTRUCTION ACTUAL CONSTRUCTION	☐ COMBUSTIBLE ☐ COMBUSTIBLE	☐ NON- COMBUSTIBLE ■ NON- COMBUSTIBLE	■ BOTH ☐ BOTH	3.2.2.56.
15	MEZZANINE(S) AREA (m²)	N/A			3.2.1.1.
16	OCCUPANT LOAD BASED ON	☐ m² / PERSON ■ DESIGN OF BUILDING			3.1.17.
17	BARRIER FREE DESIGN	■ YES	☐ NO (EXPLAIN)		3.8.
18	HAZARDOUS SUBSTANCES	☐ YES	■ NO		M.2.1.2(1) & 3.3.1.19(1)
19	REQUIRED FIRE RESISTANCE RATING (FRR)	FLOOR ASSEMBLIES LOAD BEARING WALLS & COLUMNS ROOF RATING	45min. IF COMBUSTIBLE CONSTRUCTION 45min. IF COMBUSTIBLE CONSTRUCTION N/A		3.2.2.56.
20	SPATIAL SEPARATION				3.2.3.



2 / A101 Site Plan Vehicle Sweep & Existing Markings
1 : 500

AERIAL VIEW N.T.S.

SITE PLAN GENERAL NOTES:

1. THE CONTRACT CONSISTS OF ALL WORK WITHIN THE 'EXTENT OF CONTRACT' LINE INDICATED ON THE SITE PLAN PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE. ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE EXTENT OF CONTRACT LINE.
2. CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT, AND MATERIALS STORAGE TO AREAS WITHIN 'EXTENT OF CONTRACT' LINE EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH BUILDER, NO PARKING IN MUNICIPALITY RIGHT-OF-WAY.
3. LOCATE EXCAVATED MATERIALS & TOPSOIL PILES AS DIRECTED. AT COMPLETION OF PROJECT ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO ARCHITECT'S SATISFACTION.
4. FOR TRENCHING & BACKFILLING OF ALL SERVICE LINES AND DIVISION OF RESPONSIBILITY, REFER TO APPROPRIATE SECTIONS IN SPECIFICATIONS.
5. SUPPLY AND PLACE TOPSOIL TO THICKNESS SPECIFIED OVER ALL SODDED AND PLANTER AREAS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL TOPSOIL AS REQUIRED OVER AND ABOVE TOPSOIL TAKEN FROM SITE. PROVIDE SODDING TO AREAS INDICATED AND TERMINATE AT 'EXTENT OF CONTRACT' LINE. EXTEND SODDING BEYOND PROPERTY LINES TO ROADWAYS WHERE INDICATED.
6. NOTE THAT EXACT LOCATIONS OF ALL NEW MECHANICAL & ELECTRICAL ITEMS ARE APPROXIMATE UNLESS DIMENSION GIVEN. ADJUST LOCATION AS REQUIRED AND AS APPROVED BY CONSULTANT TO SUIT SITE CONDITIONS.
7. NOTE THAT ALL MECHANICAL AND ELECTRICAL UNDERGROUND SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS AND DEPTHS OF ALL UNDERGROUND SERVICES IN AREA OF NEW CONSTRUCTION INCLUDING GAS LINES, TELEPHONE, CABLE TV, ETC. AND VERIFY THEIR LOCATION WITH THE APPROPRIATE AUTHORITIES BEFORE EXCAVATING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-CONSTRUCTED DRAWINGS.
9. REFER TO CIVIL DRAWINGS FOR SITE SERVICING AND GRADING, EROSION AND SEDIMENT CONTROL, STORM WATER MANAGEMENT AND DRAINAGE, AND ANY OTHER RELATED WORKS.
10. REFER TO LANDSCAPE DRAWINGS FOR PLANTING, SODDING, TREE AND SHRUB LAYOUT / SCHEDULE (INCLUDING PRESERVATION AND REMOVALS), PAVER LAYOUTS, SITE AMENITIES, AND ANY OTHER RELATED WORKS.
11. REFER TO MAE DRAWINGS FOR SITE LIGHTING / POWER AND ANY OTHER RELATED WORKS.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DRAWINGS FROM ALL DISCIPLINES. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED ON THE JOB. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. ALL DRAWINGS REMAIN THE PROPERTY OF THE CONSULTANT. ONLY LATEST APPROVED DRAWINGS ARE TO BE USED FOR CONSTRUCTION.

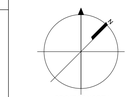
SPA-2021-0032

No.	Revision	Date
012	Issued For Addendum #1	2021-10-19
011	Issued For Site Plan Resubmission	2021-10-19
010	Issued For Tender	2021-09-20
09	Issued For Building Permit	2021-07-27
08	Issued for SPA Comment Response	2021-06-23
07	Issued For 90% Construction Documents	2021-05-03
06	Issued For Site Plan Resubmission	2021-04-23
05	Issued For Site Plan Application	2021-02-12
04	Issued For 50% Construction Documents	2021-02-05
03	Issued For 100% Design Development	2021-01-19
02	Issued For Schematic Design Submission	2020-12-22
01	Issued For Site Plan Pre-Consultation	2020-12-15

SITE PLAN LEGEND:

- PROPERTY LINE / EXTENT OF CONTRACT
- PART LOT / EASEMENT LINE
- FIRE ACCESS ROUTE
- IB / SIB PER SURVEY
- PROPERTY SETBACK
- LS — POLE MOUNTED LIGHT STANDARD AS PER ELEC. DWGs
- MH — MANHOLE AS PER CIVIL DWGs
- CB — CATCH BASIN AS PER CIVIL DWGs
- CB MH — CATCH BASIN/MANHOLE AS PER CIVIL DWGs
- FH&V — FIRE HYDRANT AS PER CIVIL DWGs
- BOL — METAL BOLLARD
- POST MOUNTED SIGN
- BH1 — BOREHOLE LOCATION
- BCC — BARRIER FREE CUT CURB
- PUBLIC AND/OR STAFF ENTRANCE/EXIT
- APPARATUS BAY ENTRANCE/EXIT
- COMM — EXISTING U/G COMMUNICATIONS LINE
- GAS — EXISTING U/G NATURAL GAS LINE
- SAN — EXISTING U/G SANITARY LINE
- STM — EXISTING U/G STORMWATER LINE
- W — EXISTING U/G WATER LINE
- EXISTING ASPHALT PAVEMENT
- LIGHT-DUTY ASPHALT PAVEMENT
- HEAVY-DUTY ASPHALT PAVEMENT
- CONCRETE PAVING / SIDEWALK
- GRASS / SOD /SOFT SCAPING REFER TO LANDSCAPE DWGs

Orientation



PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
GERRY P. PILON
LICENCE
5042

All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

salterpilon architecture
151 Ferris Lane, Suite 400 Barrie, Ontario L4M 6C1
salterpilon.com t: 705.737.3530

Project Information

BFES Station 201

27 Rutherford Rd. S., Brampton, ON. L6W 3J3

For

City of Brampton Fire & Emergency Services

Drawing Title

Site Plans & OBC Matrix

Date	Project No	Drawing No
2021-10-19	20019	A101
Drawn by: BB, NL		
Scale: As indicated		

BIM 360://20019 - BFES Station 201/20019 BFES Station 201_Central_R20.rvt
2021-10-19 4:26:39 PM

MTE FILE PATH: P:\P\48015\100\48015-100-C2

October 18, 2021 – 5:22:41 PM – Plotted By: Laura Galati

EXISTING BUILDING (APPROXIMATE LOCATION)

EXISTING SHED TO BE REMOVED

EXISTING WATERMAIN TO BE REMOVED

EXISTING CB TO BE REMOVED AND PIPE CAPPED AT PROPERTY LINE

EXISTING SHED TO BE REMOVED

EXISTING BARRIER WALL TO BE REMOVED

EXISTING FENCE TO BE REMOVED

EXISTING WATER VALVE TO BE REMOVED

EXISTING WATERMAIN TO BE REMOVED

CAP AND ABANDON WATER CONNECTIONS

EXISTING BARRIER WALL TO BE REMOVED

EXISTING BARRIER WALL TO BE REMOVED

EXISTING BARRIER WALL TO BE REMOVED

EXISTING CONCRETE SIDEWALK TO BE REMOVED

STONE PILE TO BE REMOVED

SHORT SECTION OF FENCE TO BE REMOVED AND REINSTATED AS SHOWN ON DWG C2.1 AND C2.2

EXISTING TREES TO BE REMOVED

EXISTING FENCE TO BE REMOVED

CLARK BLVD

RUTHERFORD RD

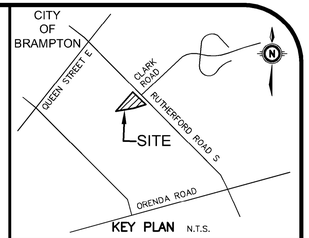
LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EASEMENT
- Ex. 300mmø SAN / Ex. MH — EXISTING SANITARY SEWER
- Ex. 200mmø WTM / Ex. HYD, SET — EXISTING WATERMAIN
- Ex. 375mmø STM / Ex. MH — EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING RETAINING WALL
- TRCA FLOODPLAIN LIMIT

LEGEND OF PROPOSED FEATURES

- X Ⓡ — REMOVALS
- ASPHALT SURFACE REMOVALS

CITY OF BRAMPTON



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 214.332m

ELEVAITONS SHOWN HERE ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON CONTROL MONUMENT NO. 042920177, ELE =207.791. THE MINISTARY OF TRANSPORTATION CONTROL MONUMENT NO. 00820168036, ELEV=214.332

SITE BENCHMARK ELEV. = 215.24m

CUT CROSS IN SIDEWALK ALONG THE SOUTWEST LIMIT OF RUTHERFORD RD, OPPOSITE A HYDRO POLE LOCATED APPROX. 3m NORTHEAST, AND 30m NORTHWEST OF THE NORTHEASTREN CONRNER OF SUBJECT PROPERTY.

NOTE TO CONTRACTOR :

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NOTE:

1. **PROPERTY-LINE IS APPROXIMATE ONLY AND TAKEN FROM PLAN PREPARED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH, 2020. BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A, B, AND C BY REAL TIME NETWORK (RTN) OBSERVATION, UTM ZONE 17, NAD83 (CSRS) (2010.0).**
2. **EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH.**
3. **INVERTS DENOTED WITH "±" ARE TAKEN FROM DWGS PROVIDED BY J D BARNES SURVEYING MAPPING GIS AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.**

No.	REVISION	BY	YYYY-MM-DD
10.	ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9.	ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8.	ISSUED FOR TENDER	MJG	2021-08-12
7.	ISSUED FOR BUILDING PERMIT	MJG	2021-07-27
6.	ISSUED FOR 90% CD	HXE	2021-05-04
5.	REISSUED FOR SPA	HXE	2021-04-23
4.	ISSUED FOR SPA	HXE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HXE	2021-02-05
2.	ISSUED FOR 100% DESIGN DEVELOPMENT	HXE	2021-01-19
1.	ISSUED FOR SCHEMATIC DESIGN	HXE	2020-12-22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER
K.R.RAMSEWAK
100100928
2021-10-18
PROVINCE OF ONTARIO

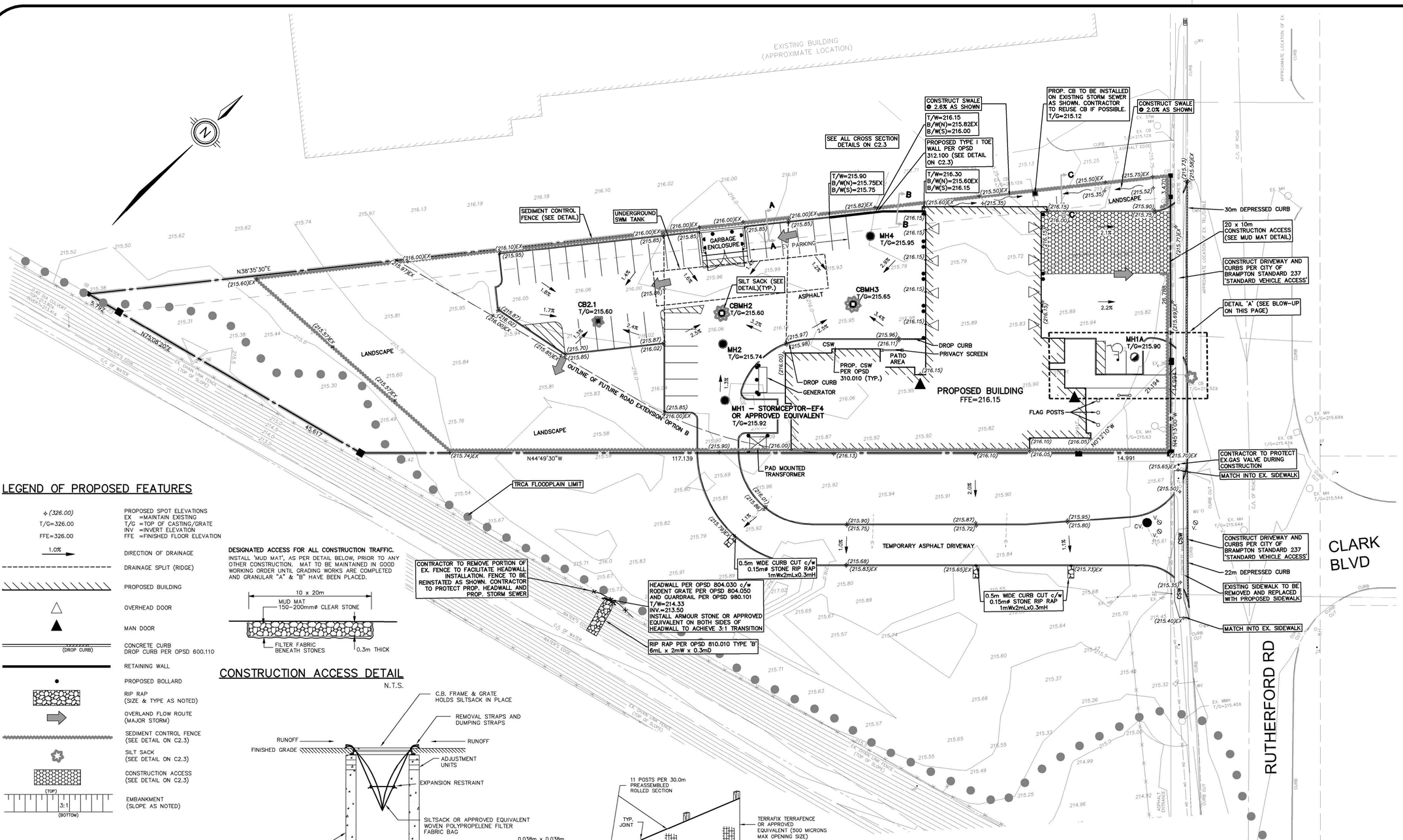
NOT FOR CONSTRUCTION

CLIENT
SALTER PILON ARCHITECTURE INC.
151 FERRIS LANE SUITE 400 BARRIE

PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
201 NEW BUILDING
27 RUTHERFORD ROAD SOUTH BRAMPTON

DRAWING
EXISTING CONDITIONS & REMOVALS PLAN

Project Manager K.RAMSEWAK	Project No. 48015-100
Design By LFG	Checked By KRR
Drawn By SXW	Checked By LFG
Surveyed By OTHERS	Drawing No. C1.1
Date Oct.14/21	
Scale 1:300	Sheet 1 of 4



LEGEND OF PROPOSED FEATURES

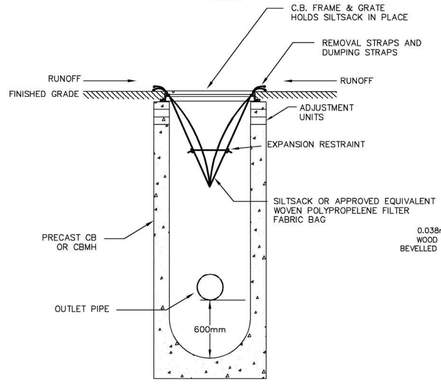
+(326.00) T/G=326.00 FFE=326.00	PROPOSED SPOT ELEVATIONS EX =MAINTAIN EXISTING T/G =TOP OF CASTING/GRATE INV =INVERT ELEVATION FFE =FINISHED FLOOR ELEVATION
1.0%	DIRECTION OF DRAINAGE
	DRAINAGE SPLIT (RIDGE)
	PROPOSED BUILDING
	OVERHEAD DOOR
	MAN DOOR
(DROP CURB)	CONCRETE CURB DROP CURB PER OPSD 600.110
	RETAINING WALL
	PROPOSED BOLLARD
	RIP RAP (SIZE & TYPE AS NOTED)
	OVERLAND FLOW ROUTE (MAJOR STORM)
	SEDIMENT CONTROL FENCE (SEE DETAIL ON C2.3)
	SILT SACK (SEE DETAIL ON C2.3)
	CONSTRUCTION ACCESS (SEE DETAIL ON C2.3)
(TOP) 3:1 (BOTTOM)	EMBANKMENT (SLOPE AS NOTED)

LEGEND OF EXISTING FEATURES

	SITE BOUNDARY
	EASEMENT
+326.23 326.00	EXISTING SPOT ELEVATIONS/CONTOURS
	EXISTING FENCE
	EXISTING RETAINING WALL
	EXISTING RIP RAP
	EXISTING DIRECTION OF DRAINAGE
	TRCA FLOODPLAIN LIMIT

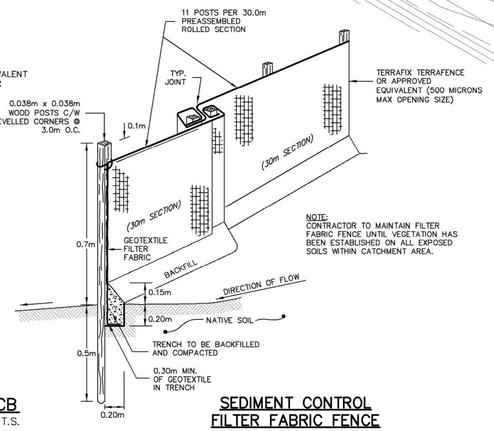
DESIGNATED ACCESS FOR ALL CONSTRUCTION TRAFFIC.
INSTALL 'MUD MAT', AS PER DETAIL BELOW, PRIOR TO ANY OTHER CONSTRUCTION. MAT TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED AND GRANULAR "A" & "B" HAVE BEEN PLACED.

CONSTRUCTION ACCESS DETAIL
N.T.S.



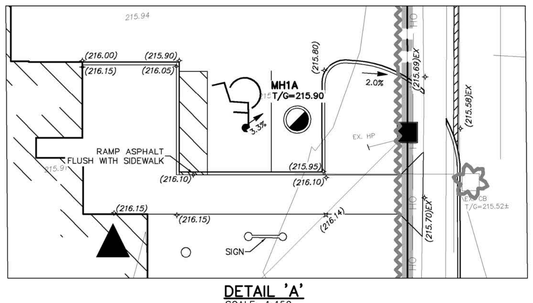
MAINTENANCE SCHEDULE
-INSPECT AFTER EVERY MAJOR RAIN EVENT.
-INSPECT EVERY 3 WEEKS MINIMUM.
-SILTSACK SHOULD NEVER BE OVER HALF FULL.
-FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS) (TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

TEMPORARY SILTSACK SILTATION CONTROL IN CB
N.T.S.

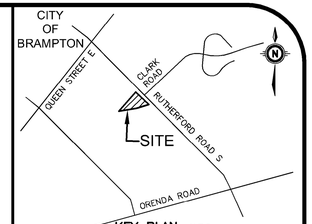


NOTE:
CONTRACTOR TO MAINTAIN FILTER FABRIC FENCE UNTIL VEGETATION HAS BEEN ESTABLISHED ON ALL EXPOSED SOILS WITHIN CATCHMENT AREA.

SEDIMENT CONTROL FILTER FABRIC FENCE
N.T.S.



DETAIL 'A'
SCALE: 1:150



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ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:
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7.	ISSUED FOR BUILDING PERMIT	MJG	2021-07-27
6.	ISSUED FOR 90% CD	HXE	2021-05-04
5.	REISSUED FOR SPA	HXE	2021-04-23
4.	ISSUED FOR SPA	HXE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HXE	2021-02-05
2.	ISSUED FOR 100% DESIGN DEVELOPMENT	HXE	2021-01-19
1.	ISSUED FOR SCHEMATIC DESIGN	HXE	2020-12-22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER K.R.RAMSEWAK 100100928 2021-10-18 PROVINCE OF ONTARIO

NOT FOR CONSTRUCTION

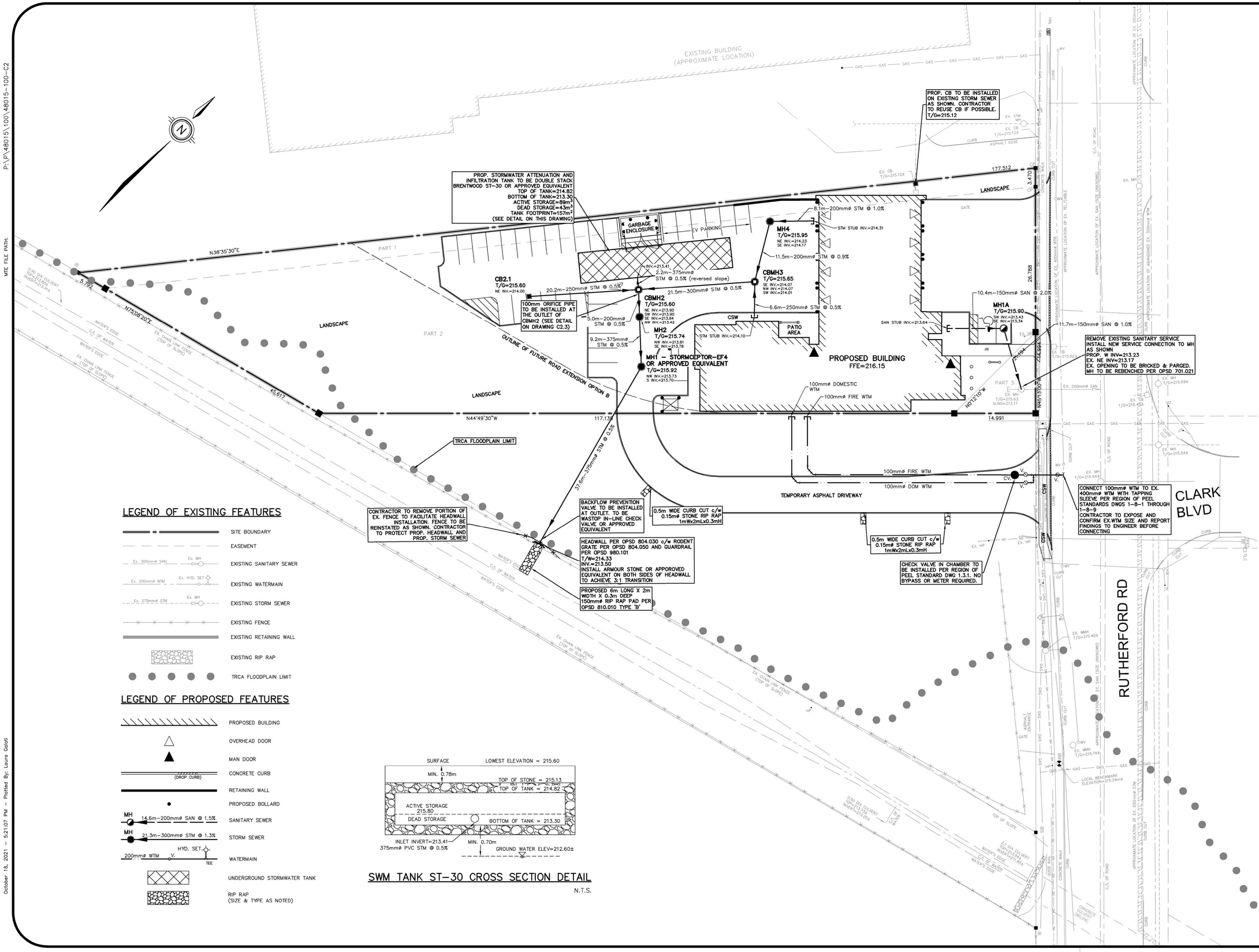
CLIENT
SALTER PILON ARCHITECTURE INC.
151 FERRIS LANE SUITE 400 BARRIE

PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
201 NEW BUILDING
27 RUTHERFORD ROAD SOUTH BRAMPTON

DRAWING
SITE GRADING PLAN

Project Manager K.RAMSEWAK	Project No. 48015-100
Design By LFG	Checked By KRR
Drawn By SXW	Checked By LFG
Surveyed By OTHERS	Drawing No. C2.1
Date Oct.14/21	
Scale 1:300	Sheet 2 of 4

MTE FILE PATH: P:\P\48015\100\48015-100-C2
October 18, 2021 - 5:22:08 PM - Plotted By: Laura Galoi



LEGEND OF EXISTING FEATURES

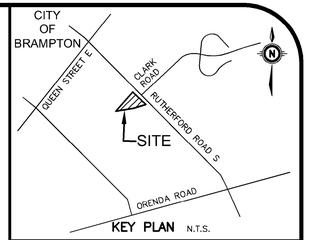
- SITE BOUNDARY
- EASEMENT
- EXISTING SANITARY SEWER (Ex. 300mmø SAN, Ex. MH)
- EXISTING WATERMAIN (Ex. 200mmø WTM, Ex. HYD. SET)
- EXISTING STORM SEWER (Ex. 375mmø STM, Ex. MH)
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING RIP RAP
- TRCA FLOODPLAIN LIMIT

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- OVERHEAD DOOR
- MAN DOOR
- CONCRETE CURB (DROP CURB)
- RETAINING WALL
- PROPOSED BOLLARD
- SANITARY SEWER (MH, 14.6m-200mmø SAN @ 1.5%)
- STORM SEWER (MH, 21.3m-300mmø STM @ 1.3%)
- WATERMAIN (HYD. SET, 200mmø WTM, V., TEE)
- UNDERGROUND STORMWATER TANK
- RIP RAP (SIZE & TYPE AS NOTED)

SWM TANK ST-30 CROSS SECTION DETAIL

N.T.S.



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 214.332m

ELEVAITONS SHOWN HERE ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON CONTROL MONUMENT NO. 042920177, ELE =207.791. THE MINISTARY OF TRANSPORTATION CONTROL MONUMENT NO. 00820168036, ELEV=214.332

SITE BENCHMARK ELEV. = 215.24m

CUT CROSS IN SIDEWALK ALONG THE SOUTWEST LIMIT OF RUTHERFORD RD, OPPOSITE A HYDRO POLE LOCATED APPROX. 3m NORTHEAST, AND 30m NORTHWEST OF THE NORTHEASTREN CONRNER OF SUBJECT PROPERTY.

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:

1. **PROPERTY-LINE IS APPROXIMATE ONLY AND TAKEN FROM PLAN PREPARED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH, 2020. BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A, B, AND C BY REAL TIME NETWORK (RTN) OBSERVATION, UTM ZONE 17, NAD83 (CSRS) (2010.0).**
2. **EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH.**
3. **INVERTS DENOTED WITH "±" ARE TAKEN FROM DWGS PROVIDED BY J D BARNES SURVEYING MAPPING GIS AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.**

No.	REVISION	BY	YYYY-MM-DD
10.	ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9.	ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8.	ISSUED FOR TENDER	MJG	2021-08-12
7.	ISSUED FOR BUILDING PERMIT	MJG	2021-07-27
6.	ISSUED FOR 90% CD	HXE	2021-05-04
5.	REISSUED FOR SPA	HXE	2021-04-23
4.	ISSUED FOR SPA	HXE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HXE	2021-02-05
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1.	ISSUED FOR SCHEMATIC DESIGN	HXE	2020-12-22

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LICENSED PROFESSIONAL ENGINEER
K.R.RAMSEWAK
100100928
2021-10-18
PROVINCE OF ONTARIO

NOT FOR CONSTRUCTION

CLIENT
SALTER PILON ARCHITECTURE INC.
151 FERRIS LANE SUITE 400 BARRIE

PROJECT
BRAMPTON FIRE STATION 201 NEW BUILDING
27 RUTHERFORD ROAD SOUTH BRAMPTON

CITY FILE #: SPA-2021-0032

DRAWING
SITE SERVICING PLAN

Project Manager K.RAMSEWAK	Project No. 48015-100
Design By LFG	Checked By KRR
Drawn By SXW	Checked By LFG
Surveyed By OTHERS	Drawing No. C2.2
Date Oct.14/21	
Scale 1:300	Sheet 3 of 4

MTE FILE PATH: P:\P\48015\100\48015-100-C2

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CONSTRUCTION NOTES AND SPECIFICATIONS

1. GENERAL

1.1. THIS/THESE PLAN/S IS/ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.

1.2. THESE PLANS ARE TO BE USED FOR SERVICING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.

1.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.

1.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.

1.5. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:

1.5.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS, REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.

1.5.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.

1.5.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.

1.5.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.

1.6. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO LOCAL MUNICIPALITY STANDARDS

1.7. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WITH THE EXCEPTION OF WATERMAIN TAPPING, TO BE INSTALLED BY THE OWNER'S CONTRACTOR AT OWNER'S EXPENSE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S "PROCEDURE FOR OFF-SITE WORKS BY PRIVATE CONTRACTOR". THE OWNER AND CONTRACTOR ARE TO ENSURE OFF-SITE WORKS PERMIT IS IN PLACE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AFFECTED PROPERTY TO ORIGINAL CONDITION. ALL BOULEVARD AREAS SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD.

1.8. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH THE ONTARIO PROVINCIAL BUILDING CODE (PART 7, PLUMBING), THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND THE REGIONAL MUNICIPALITY OF WATERLOO; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.

1.9. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE, DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.

1.10. SANITARY AND STORM SEWERS AND SERVICES TO HAVE A MINIMUM 1.4m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. CONTACT DESIGN ENGINEER FOR "SEWER PIPE INSULATION DETAIL" IF REQUIRED.

1.11. PLAN TO BE READ IN CONJUNCTION WITH SWM BRIEF AND DRAWINGS C2.1 AND C2.2 PREPARED BY MTE CONSULTANTS INC. AND LANDSCAPE PLAN.

1.12. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY SALTER PILON ARCHITECTURE DATED 2021-01-19.

1.13. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY J.D.BARNES LTD, DATED 2018-05-07. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.

1.14. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO ENTERING UPON NEIGHBOURING LANDS TO UNDERTAKE ANY WORK. COPIES OF THESE LETTERS OF CONSENT SHALL BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT CONTRACTOR'S OWN RISK.

1.15. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1 METRE FROM FOUNDATION WALL.

1.16. FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUAL.

1.17. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.

1.18. SIDE SLOPES OF ALL STOCKPILES OR EXTRACTION FACES TO BE MAINTAINED AT 70 DEGREES OR LESS BETWEEN EARLY APRIL AND LATE AUGUST TO DETER BANK SWALLOWS FROM NESTING.

1.19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

1.20. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.21. CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.

1.22. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.

2. STORM SEWERS

2.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030, 802.031, OR 802.032. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

2.2. STORM SEWERS 200mmø TO 375mmø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 OR RIBBED PVC SEWER PIPE CSA B182.4-M90 ASTM-F794 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS. RIBBED PVC NOT TO BE USED WITHIN RIGHT-OF-WAY.

2.3. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.

2.4. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mmø PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.

2.5. CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSD 705.010.

2.6. ALL STORM STRUCTURES TO HAVE A MINIMUM 600mm DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNOUT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.

2.7. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.

2.8. STORM MANHOLE LIDS TO BE PER OPSD 401.010 – TYPE 'B' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100. DITCH INLET CATCHBASIN GRATES TO BE PER OPSD 403.010.

2.9. ADJUSTMENT UNITS FOR STORM STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.

2.10. STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). INSULATION BOARD WIDTH SHALL BE 1.8m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 2.4m FOR 201mm-800mm DIAMETER AND 3.0m FOR 801mm-1400mm. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL COVER). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.

2.11. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSS 410.

3. SANITARY SEWERS

3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

3.2. SANITARY SEWERS 150mmø AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.

3.3. MANHOLES TO BE 1200mmø PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.

3.4. MANHOLES TO BE BENCHED PER OPSD 701.021.

3.5. SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 -TYPE 'A'.

3.6. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.

3.7. ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.

3.8. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.

3.9. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.

3.10. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSS 410.

4. WATERMAINS

4.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

4.2. WATERMAINS 100mmø AND LARGER SHALL BE PVC C900 CLASS 150 INSTALLED WITH MINIMUM 2.0 METRES OF COVER. FITTINGS 100mmø AND LARGER SHALL BE PVC CLASS 150 (DR18) CSA B137.3.

4.3. WATERMAIN FITTINGS TO BE SUPPLIED WITH MECHANICAL JOINT RESTRAINTS. FOR WATERMAIN PIPE SIZES 150mmø OR LESS ALL PIPE JOINTS TO BE RESTRAINED WITHIN 5.0m FROM ALL FITTINGS, IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. FOR WATERMAIN PIPE SIZES GREATER THAN 150mmø ALL PIPE JOINTS TO BE RESTRAINED WITHIN 10.0m FROM ALL FITTINGS, IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. ALL TEES TO HAVE MINIMUM 2.0m SOLID PIPE LENGTH ON EACH RUN OF THE TEE, OR PROVIDE A THRUST BLOCK PER OPSD 1103.010.

4.4. ALL METALLIC FITTINGS (EXCLUDING CURB/MAIN STOP AND BRASS FITTINGS) AND APPURTENANCES INCLUDING SADDLES, VALVES, TEES, BENDS ETC ARE TO BE WRAPPED WITH AN APPROVED PETROLATUM SYSTEM CONSISTING OF PASTE, MASTIC AND TAPE. PARTICULAR ATTENTION SHALL BE PAID TO ANODE INSTALLATION. CONTRACTOR TO REFER TO THE MOST RECENT EDITION OF THE LOCAL MUNICIPALITY AND AREA MUNICIPALITIES DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES.

4.5. WATERMAIN VALVES 100mmø AND LARGER SHALL BE AS PER AWWA C509 – MUELLER A2360-23 OR APPROVED EQUIVALENT (OPEN LEFT) INCLUDING VALVE BOX AND 2.3Kg ANODE INCLUDING ANODE PROTECTION INSTALLED PER LOCAL MUNICIPALITY STANDARDS.

4.6. PVC WATERMAIN SHALL HAVE TWU STRANDED COPPER, AWG8 TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL HYDRANTS AND CAD WELDED TO THE LOWER FLANGE OF THE HYDRANT.

4.7. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.

4.8. SERVICE BOXES TO BE FERGUSON ECLIPSE TYPE FIGURE 222 SIZE NO. 9 OR APPROVED EQUIVALENT COMPLETE WITH ROD AND PLUG.

4.9. WATER CONNECTIONS MAY BE PLACED IN THE SAME TRENCH WITH A STORM OR SANITARY CONNECTION ONLY IF A MINIMUM VERTICAL SEPARATION OF 500mm IS MAINTAINED BETWEEN THE WATER SERVICE AND ANY OTHER PIPE, IN ACCORDANCE WITH SECTION 7.3.5.7.(2)(a)(i) OF THE ONTARIO BUILDING CODE.

4.10. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 2.0m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "WATER PIPE INSULATION DETAIL".

4.11. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 2.0m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "WATER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-3.52 (R20) INSULATING FACTOR (TYPICALLY 100-130mm). INSULATION BOARD WIDTH SHALL BE 2.4m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 3.0m FOR 201mm-305mm DIAMETER. INSULATION BOARD SHALL BE INSTALLED WITH MINIMUM2-LAYERS, OVERLAPPED MINIMUM 300mm AT ALL JOINTS. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME.ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.

4.12. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSS 441. DISINFECT ALL WATERMAIN IN ACCORDANCE WITH AWWA C 651-99 INCLUDING CHLORINATION, BACKFLOW PREVENTOR AND 24 HOUR DUPLICATE SAMPLING. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER. **(CONTRACTOR TO SUBMIT WATER COMMISSIONING PLAN IN ACCORDANCE WITH DGSSMS. THIS PLAN MUST BE APPROVED BY THE LOCAL MUNICIPALITY PRIOR TO ANY WATERMAIN WORK).**

4.13. PRIOR TO OCCUPANCY, CONTRACTOR MUST COMMISSION FIRE FLOW TEST FOR PRIVATE ON-SITE HYDRANT. PROVIDE RESULT TO DESIGN ENGINEER.

5. EROSION AND SEDIMENT CONTROL

5.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER.

5.2. ALL SEDIMENT CONTROL FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.

5.3. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT 2.5m MINIMUM FROM PROPERTY LINE.

5.4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MHs AND CBs.

5.5. CONSTRUCTION ACCESS (MUD MAT) TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONSTRUCTION ACCESS (MUD MAT) SHALL BE A MINIMUM OF 3.0m WIDE, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROPOSED EROSION FENCING TO TIE INTO MUD MAT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.

5.6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.

5.7. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.

5.8. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE LOCAL MUNICIPALITY'S DEPARTMENT OF PUBLIC WORKS.

5.9. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.

5.10. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.

6. MAINTENANCE RECOMMENDATIONS

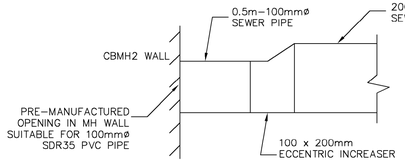
6.1. DURING THE COURSE OF CONSTRUCTION CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS FROM STORMWATER MANAGEMENT FACILITIES MONTHLY. FOLLOWING CONSTRUCTION CONTRACT COMPLETION, OWNER TO HIRE QUALIFIED CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORMWATER MANAGEMENT FACILITIES ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN, AS REQUIRED.

6.2. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.

6.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.

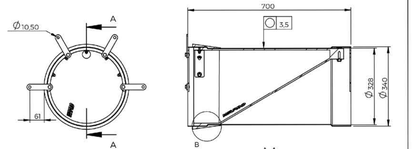
6.4. THE PROPOSED STORMCEPTOR(STC) WILL REQUIRE REGULAR ANNUAL MAINTENANCE. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.

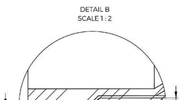
6.5. THE PROPOSED SNOUT/S WILL REQUIRE REGULAR MAINTENANCE DURING AND AFTER CONSTRUCTION IN ACCORDANCE WITH THE MAINTENANCE RECOMMENDATIONS OUTLINED IN SNOUT BEST MANAGEMENT PRODUCTS INC. DOCUMENT. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL OF SEDIMENT FROM THE SUMP, REMOVAL OF FLOATABLES AND TRASH AND ANNUAL INSPECTION OF THE ANTI-SIPHON VENT, ACCESS HATCH AND TRASH SCREEN. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.



100mmø SHORT ORIFICE TUBE DETAIL N.T.S.

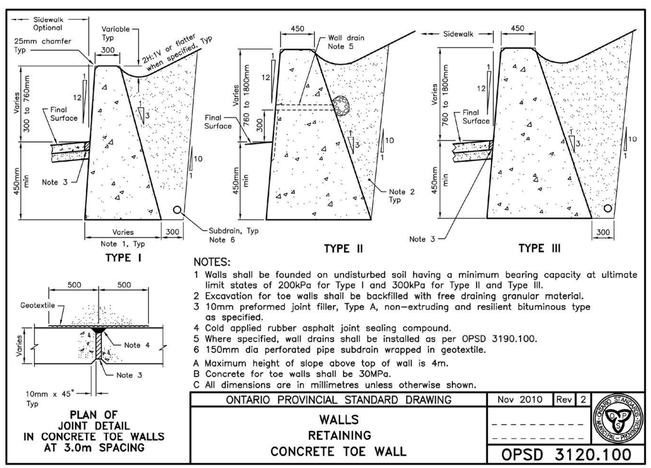
Rev.	Note	Created&By	Appr.By	Appr.Date
B	Initial release	PW	AE	2019-12-06





Designed By: PM	Approved By: AE	Created Date: 2015-08-07	Units: [mm]	General Tolerance: ISO 13920A
Material: EN 14404			Comments:	Scale: 1:10
Weight [kg]: 16.65	Box Volume [m³]: 0.08			Project:
Description: WaStop DN350				
Article Number: WS340-S		Drawing Number: ws340-s-en	Rev: B	Sheet: 1/1

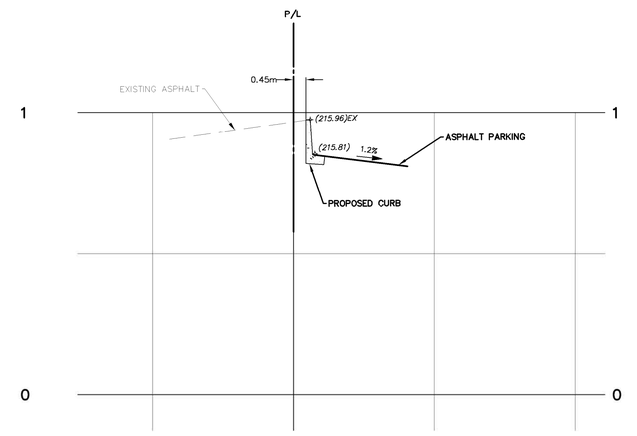
WAPRO www.wapro.com



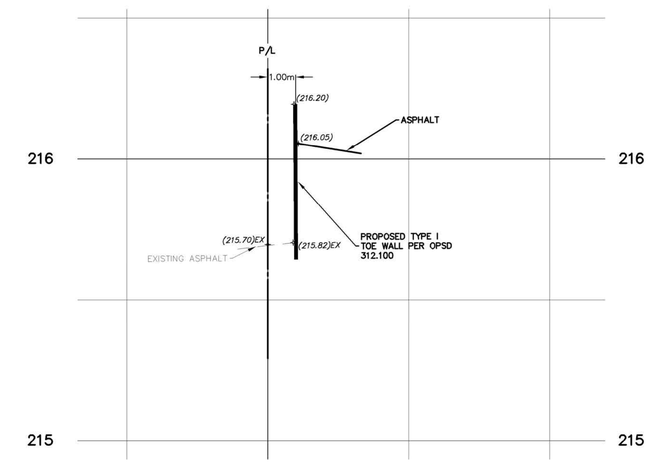
NOTES:
1 Walls shall be founded on undisturbed soil having a minimum bearing capacity at ultimate limit states of 200kPa for Type I and 300kPa for Type II and Type III.
2 Excavation for toe walls shall be backfilled with free draining granular material.
3 10mm preformed joint filler, Type A, non-extruding and resilient bituminous type as specified.
4 Cold applied rubber asphalt joint sealing compound.
5 Where specified, wall drains shall be installed as per OPSD 3190.100.
6 150mm dia perforated pipe subdrain wrapped in geotextile.
A Maximum height of slope above top of wall is 4m.
B Concrete for toe walls shall be 30MPa.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2010	Rev	2
WALLS RETAINING CONCRETE TOE WALL			
	OPSD 3120.100		

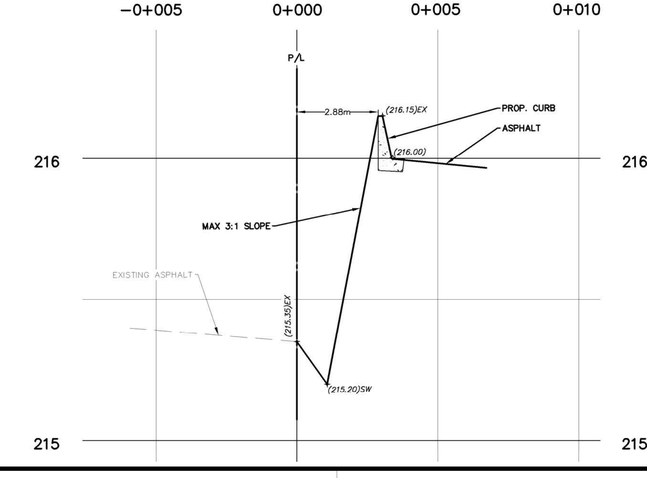
CROSS SECTION A–A
SCALE H 1:100
V 1:10

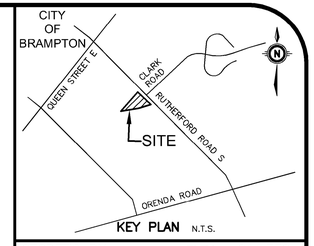


CROSS SECTION B–B
SCALE 1:100H
1:10V



CROSS SECTION C–C
SCALE 1:100H
1:10V





KEY PLAN N.T.S.

GEODETIC BM ELEV. = 214.332m
ELEVAITONS SHOWN HERE ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON CONTROL MONUMENT NO. 042920177, ELE =207.791. THE MINISTARY OF TRANSPORTATION CONTROL MONUMENT NO. 00820168036, ELEV=214.332

SITE BENCHMARK ELEV. = 215.24m
CUT CROSS IN SIDEWALK ALONG THE SOUTWEST LIMIT OF RUTHERFORD RD, OPPOSITE A HYDRO POLE LOCATED APPROX. 3m NORTHEAST, AND 30m NORTHWEST OF THE NORTHEASTREN CONRNER OF SUBJECT PROPERTY.

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:

1. **PROPERTY-LINE IS APPROXIMATE ONLY AND TAKEN FROM PLAN PREPARED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH, 2020. BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A, B, AND C BY REAL TIME NETWORK (RTN) OBSERVATION, UTM ZONE 17, NAD83 (CSRS) (2010.0).**
2. **EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH.**
3. **INVERTS DENOTED WITH "±" ARE TAKEN FROM DWGS PROVIDED BY J D BARNES SURVEYING MAPPING GIS AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.**

No.	REVISION	BY	YYYY-MM-DD
10.	ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9.	ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8.	ISSUED FOR TENDER	MJG	2021-08-12
7.	ISSUED FOR BUILDING PERMIT	MJG	2021-07-27
6.	ISSUED FOR 90% CD	HXE	2021-05-04
5.	REISSUED FOR SPA	HXE	2021-04-23
4.	ISSUED FOR SPA	HXE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HXE	2021-02-05
2.	ISSUED FOR 100% DESIGN DEVELOPMENT	HXE	2021-01-19
1.	ISSUED FOR SCHEMATIC DESIGN	HXE	2020-12-22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER K.R.RAMSEWAK 100100928 2021-10-18 PROVINCE OF ONTARIO

NOT FOR CONSTRUCTION

CLIENT
SALTER PILON ARCHITECTURE INC.
151 FERRIS LANE SUITE 400 BARRIE

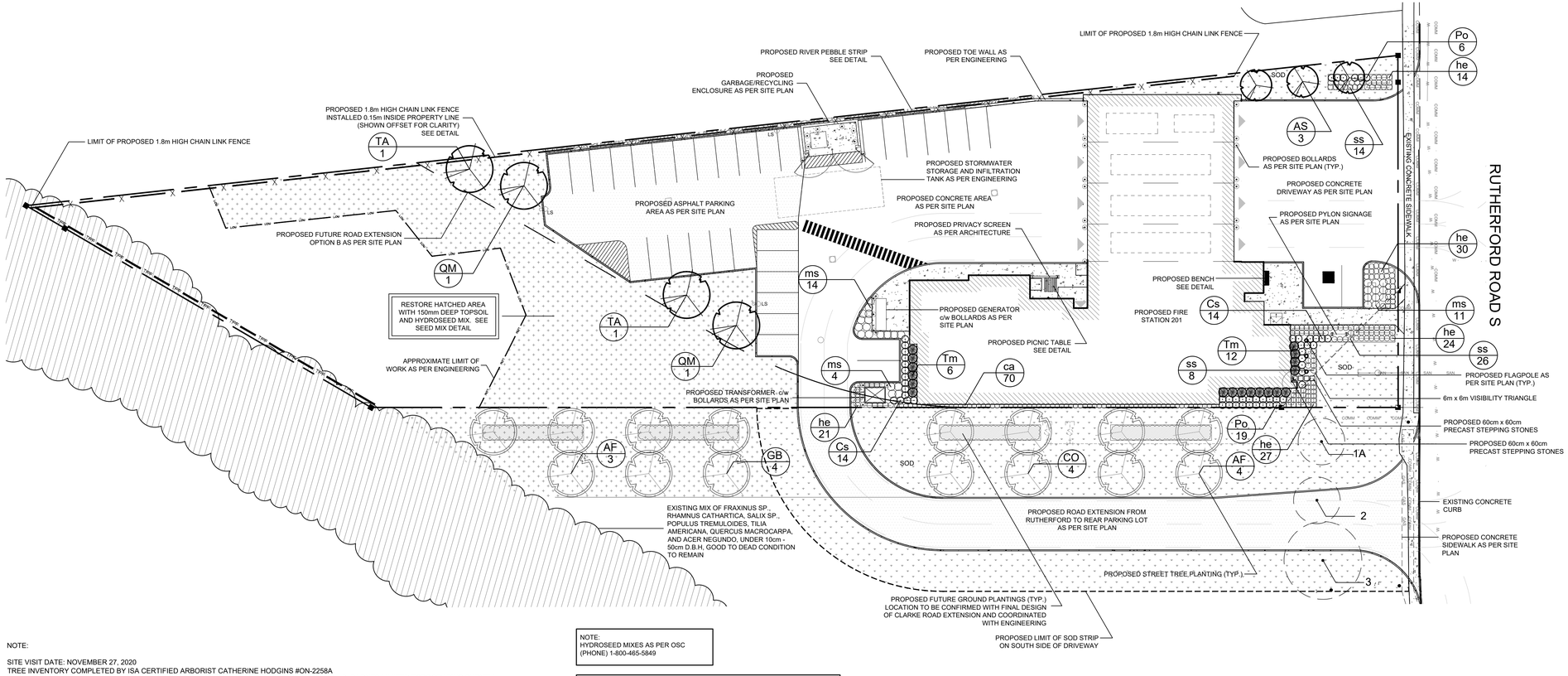
PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
201 NEW BUILDING
27 RUTHERFORD ROAD SOUTH BRAMPTON

DRAWING
NOTES AND DETAILS PLAN

Project Manager: K.RAMSEWAK	Project No.: 48015-100
Design By: LFG	Checked By: KRR
Drawn By: SXW	Checked By: LFG
Surveyed By: OTHERS	Drawing No.: C2.3
Date: Oct.14/21	
Scale: 1:300	Sheet 4 of 4

MTE FILE PATH: P:\P\48015\100\48015-100-C2

October 18, 2021 - 5:21:40 PM - Plotted By: Laura Galati



NOTE:

SITE VISIT DATE: NOVEMBER 27, 2020
TREE INVENTORY COMPLETED BY ISA CERTIFIED ARBORIST CATHERINE HODGINS #ON-2258A
TREE LOCATIONS BASED ON HILL DESIGN STUDIO FIELD SURVEY ON NOVEMBER 27, 2020 AND J.D. BARNES LIMITED TOPOGRAPHIC SURVEY
#A DENOTES APPROXIMATE LOCATION OF TREE BASED ON HILL DESIGN STUDIO FIELD SURVEY

EXISTING TREE LIST

NO.	SPECIES	D.B.H	CONDITION	STATUS	ADDITIONAL NOTE
1A.	Quercus robur	>10-15cm	Fair	To be removed	In construction zone of future road extension
2.	Quercus robur	30cm	Fair	To be removed	In construction zone of future road extension
3.	Quercus robur	+55cm	Fair	To be removed	In construction zone of future road extension

LEGEND

	EXISTING TREES TO REMAIN
	EXISTING TREES TO BE REMOVED
TPF	TREE PROTECTION FENCE

TREE PROTECTION NOTES

1. PRIOR TO THE REMOVAL OF VEGETATION ON SITE AND/OR THE START OF CONSTRUCTION, A CERTIFICATION LETTER VERIFYING TREE PROTECTION FENCING HAS BEEN INSTALLED IS TO BE SUBMITTED TO THE ENGINEERING SERVICES LANDSCAPE REPRESENTATIVE IN COMPLIANCE WITH THE APPROVED PLANS.

2. AS PART OF ANY TREE REMOVAL OPERATION ALL STEMS, LIMBS AND STUMPS SHOULD BE REMOVED FROM THE SITE.

3. UPON COMPLETION OF ANY TREE REMOVAL OPERATIONS, TREE PROTECTION FENCING SHOULD BE INSTALLED AS ILLUSTRATED. THIS PROTECTION FENCING SHOULD BE MAINTAINED UNTIL ALL EXCAVATION AND B1UILDING CONSTRUCTION WORK IS COMPLETED.

4. ANY ROOTS DISTURBED DURING CONSTRUCTION SHOULD BE CUT CLEANLY AND BURIED IMMEDIATELY.

5. NO HEAVY EQUIPMENT OR STOCKING OF MATERIAL SHALL OCCUR WITHIN THE DRIPLINES OF ANY TREES THAT ARE TO BE PRESERVED.

6. TREE PROTECTION MEASURES TO BE INSPECTED BY LANDSCAPE ARCHITECT AND CITY STAFF PRIOR TO START OF CONSTRUCTION.

7. IF CONSTRUCTION OR ANY WORK OCCURS WITHIN THE TREE PRESERVATION ZONE, INSIDE THE LIMITS OF THE TREE PROTECTION FENCE, IT IS NECESSARY TO ONLY USE HAND TOOLS. NO MACHINERY WILL BE PERMITTED IN THIS ZONE.

8. ANY TREES PROPOSED TO BE PROTECTED ARE IMPACTED BY DEVELOPMENT WILL BE REPLACED WITH THE SAME SPECIES OF AN APPROVED ALTERNATE, TO THE SATISFACTION OF THE TOWNSHIP OF WOOLWICH AT A MINIMUM 70mm CALIPER FOR DECIDUOUS TREES AND A MINIMUM OF 250cm HEIGHT FOR CONIFEROUS TREES.

9. NO VEGETATION REMOVALS ARE TO OCCUR ON THE SITE UNTIL THE TIME OF FINAL SITE PLAN APPROVAL.

NOTE:
HYDROSEED MIXES AS PER OSC
(PHONE) 1-800-465-5849

FINE GRADE AND SEED ALL DISTURBED AREAS WITHIN 30 DAYS WITH BOTH THE LOW GROWING WILDFLOWER SEED MIX AND THE ANNUAL RYE GRASS AT THE RATES LISTED BELOW.

HYDROSEED FOR DISTURBED AREAS

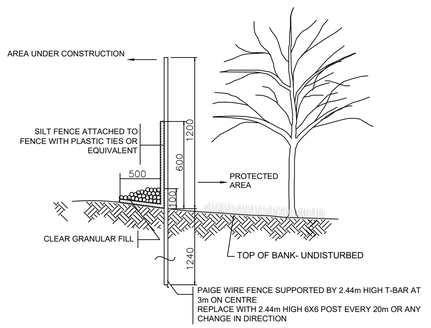
LOW GROWING WILDFLOWER SEED MIX #6825

6%	ALYSSUM SAXATILE
6%	AFRICAN DAISY
10%	BABY'S BREATH
6%	CATCHFLY
8%	CANDYTUFT
6%	DWARF COREOPSIS
10%	DWARF CORNFLOWER
5%	FIVE SPOT
10%	FORGET-ME-NOT
5%	SHOWY EVENING PRIMROSE
4%	ORIENTAL POPPY
2%	OZARK SUNDROP
5%	PRAIRIE CONEFLOWER
6%	WALLFLOWER

TO BE APPLIED AT A RATE OF 25kg/ha

ANNUAL RYE GRASS (NURSE CROP)

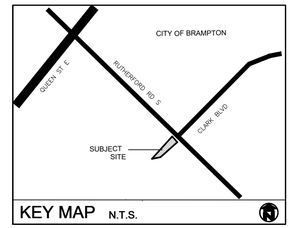
TO BE APPLIED AT A RATE OF 22kg/ha



1 TREE PROTECTION FENCING
NTS

PLANT MATERIAL LIST

KEY	QUANT.	BOTANICAL NAME	COMMON NAME	SIZE	COND.
AF	7	Acer x freemanii 'Jeffersred'	Jeffersred Maple	70mm cal.	W.B.
AS	3	Acer saccharum 'Endowment'	Endowment Sugar Maple	70mm cal.	W.B.
CO	4	Celtis occidentalis	Hackberry	70mm cal.	W.B.
GB	4	Ginkgo biloba	Ginkgo	70mm cal.	W.B.
QM	2	Quercus macrocarpa	Burr Oak	70mm cal.	W.B.
TA	2	Tilia americana	Basswood	70mm cal.	W.B.
Cs	28	Cornus sanguinea Arctic Sun	Arctic Sun Dogwood	50cm, 3 gal.	Pot
Po	25	Physocarpus opulifolius 'Dart's Gold'	Dart's Gold Ninebark	50cm, 3 gal.	Pot
Tm	12	Taxus x media 'Densiformis'	Dense Yew	50cm, 3 gal.	Pot
ca	70	Calamagrostis acutiflora 'Eldorado'	Eldorado Reed Grass	1 gal.	Pot
he	116	Hemerocallis 'Stella d'Oro'	Stella d'Oro Daylily	1 gal.	Pot
ms	29	Miscanthus sinensis 'Huron Sunrise'	Huron Sunrise Maiden Grass	1 gal.	Pot
ss	48	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem Grass	1 gal.	Pot



KEY MAP N.T.S.

GENERAL NOTES

1. THE CONTRACTOR MUST NOTIFY THE OPEN SPACE DEVELOPMENT SECTION OF THE CITY OF BRAMPTON PRIOR TO COMMENCEMENT OF ANY PLANTING.
2. THE LOCATIONS OF ALL TREES ON STREET FRONTAGES MUST BE APPROVED BY THE OPEN SPACE DEVELOPMENT SECTION OF THE CITY OF BRAMPTON PRIOR TO THEIR INSTALLATION.
3. THE OWNERS IS REQUIRED, UPON COMPLETION OF ALL LANDSCAPE WORKS, TO SUBMIT AN ACCEPTANCE CERTIFICATE PREPARED BY A CERTIFIED AND REGISTERED OALA LANDSCAPE ARCHITECT TO THE OPEN SPACE DEVELOPMENT SECTION AND TO REQUEST AN INSPECTION BY THE OPEN SPACE SECTION.
4. ALL LANDSCAPE WORKS WILL BE GUARANTEED FOR ONE YEAR FOLLOWING INSPECTION. PLANT MATERIAL, WHICH IS NOT IN A HEALTHY GROWING CONDITION ONE YEAR AFTER INSPECTION, SHALL BE REPLACED TO THE SATISFACTION OF THE CITY WITH AN ADDITIONAL ONE-YEAR MAINTENANCE GUARANTEE PERIOD. SUPPLY AND PLANT ALL REPLACEMENTS IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS.
5. SOD THAT IS DAMAGED OR MISSING ON THE PUBLIC BOULEVARD IS TO BE REPAIRED/INSTALLED AT THE OWNER'S EXPENSE.
6. ANY CHAIN LINK FENCE AND COMPONENTS THAT ARE INSTALLED SUBSEQUENT TO SITE PLAN APPROVAL SHALL HAVE A BLACK GLOSS ENAMEL FINISH BY POWDER COAT APPLICATION. PRIOR TO APPLICATION OF FINISH, TREAT WITH PARKER BONDERITE AND CHLOROTHENE SOLVENT APPLIED IN A THICKNESS OF 4-5 MILS BY ELECTROSTATIC COAT AND OVEN CURED FOR SMOOTH AND EVEN SURFACE. ALL CHAIN LINK FABRIC ALSO TO BE BLACK VINYL COATED.
7. THE CONTRACTOR IS RESPONSIBLE FOR LACATION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION OF TREE PITS AND SHRUB BEDS.
8. ALL T-BARS TO BE REMOVED AT THE CONCLUSION OF THE WARRANTEE PERIOD, UNLESS OTHERWISE SPECIFIED BY THE OPEN SPACE SECTION OF THE CITY OF BRAMPTON.
9. ANY TRANSFORMER INSTALLED SUBSEQUENT TO SITE PLAN APPROVAL SHALL BE SCREENED WITH PLANT MATERIAL TO THE SATISFACTION OF THE CITY OF BRAMPTON AND MEET ALL REQUIREMENTS OF HYDRO ONE BRAMPTON PLANTING SETBACKS
10. ANY DAMAGE DUE TO CONSTRUCTION IS REQUIRED TO BE REINSTATED AT THE APPLICANT'S EXPENSE. ALL DAMAGES WILL BE COMPLETE ACCORDINGLY TO THE SATISFACTION OF THE CITY OF BRAMPTON.
11. SITE PLAN INFORMATION AS PER SALTER PILON ARCHITECTURE INC.
12. TOPOGRAPHIC SURVEY INFORMATION AS PER J.D. BARNES LTD.
13. ENGINEERING AS PER MTE AND IS FOR INFORMATIONAL PURPOSES ONLY.
14. SITE LIGHTING BY OTHERS.

SPA-2021-0032

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
AARON W. HILL
OALA
MEMBER

REVISIONS

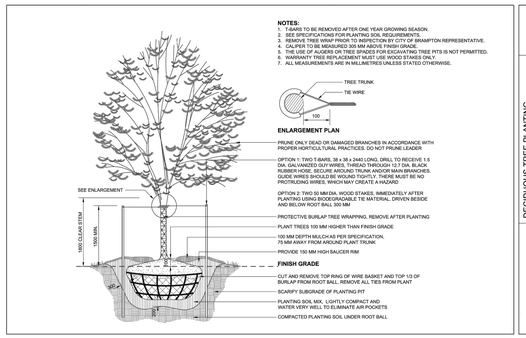
no.	date	description	by
1.	Dec.22.20	Issued for Schematic Design Submission	CMH
2.	Feb.8.21	Issued for 50% CD	CMH
3.	Apr.23.21	Revised as per comments	CMH
4.	May.3.21	Issued for 90% CD	CMH
5.	Jul.12.21	Revised as per comments	CMH
6.	Jul.27.21	Issued for building permit	CMH
7.	Jul.29.21	Issued for tender	CMH
8.	Sept.16.21	Issued for Site Plan Resubmission	CMH
9.	Sept.28.21	Revised as per comments	CMH
10.	Oct.14.21	Issued for Site Plan Resubmission	CMH
11.	Oct.14.21	Issued for Addendum #1	CMH

PROPOSED FIRE STATION 201
27 Rutherford Rd S
City of Brampton

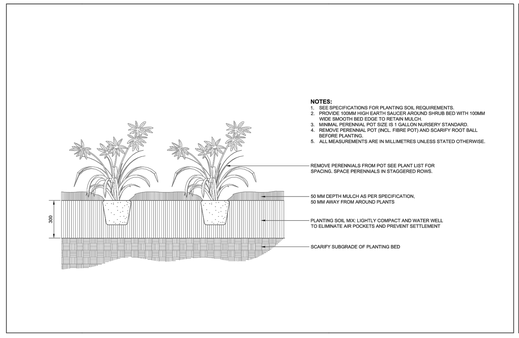
Tree Management & Landscape Plan

Hill Design Studio INC
226-686-0700 www.hilldesign.ca

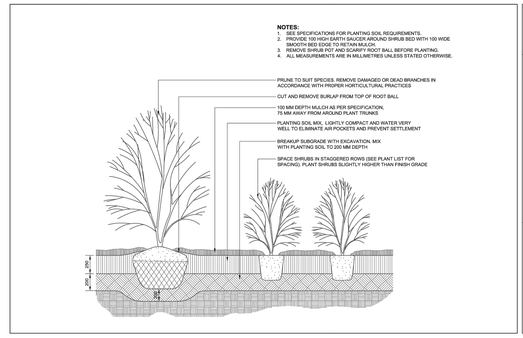
PROJECT NO.: 2020-50	DRAWN BY: CMH
SCALE: 1:500	DESIGNED BY: CMH
SHEET: L1	APPROVED BY: AWH
	PLOT DATE: OCT. 14, 2021



1 CITY OF BRAMPTON STANDARD
DECIDUOUS TREE PLANTING DETAIL
N.T.S.



2 CITY OF BRAMPTON STANDARD
PERENNIAL PLANTING DETAIL
N.T.S.



3 CITY OF BRAMPTON STANDARD
MULTI-STEM SHRUB PLANTING DETAIL
N.T.S.

4 CITY OF BRAMPTON STANDARD
1.8m HIGH CHAIN LINK FENCE FENCE DETAIL
N.T.S.

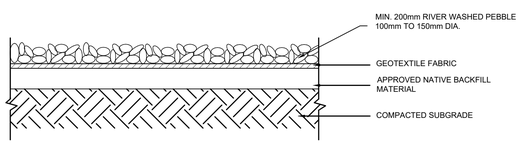
BENCH BY MAGLIN (OR APPROVED EQUAL)
T 1-800-716-5506
F 1-877-260-9383
WWW.MAGLIN.COM
SALES@MAGLIN.COM

SPECIFICATIONS:
MODEL: MLB1200W
FINISH: BLACK POWDER COAT
OPTIONS: NONE
INSTALLATION: SURFACE MOUNT

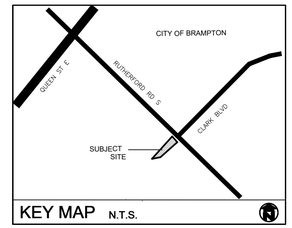
5 BENCH DETAIL
NTS

MAGLIN PICNIC TABLE
MODEL: MLPT 721W
INSTALLATION: DIRECT BURIAL
COLOUR: BLACK POWDERCOAT
OPTIONS: UMBRELLA HOLE
REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION
SUPPLIER: MAGLIN
TEL: 1-800-716-5506
WEB: WWW.MAGLIN.COM

6 MAGLIN PICNIC TABLE DETAIL
N.T.S



7 RIVER PEBBLE MULCH DETAIL
NTS



SPA-2021-0032

REVISIONS

no.	date	description	by
1.	Dec.22.20	Issued for Schematic Design Submission	CMH
2.	Feb.8.21	Issued for 50% CD	CMH
3.	Apr.23.21	Revised as per comments	CMH
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PROPOSED FIRE STATION 201
27 Rutherford Rd S
City of Brampton

Landscape Details

Hill Design Studio Inc
226-686-0700 www.hilldesign.ca

PROJECT NO.: 2020-50
DRAWN BY: CMH
SCALE: AS NOTED
DESIGNED BY: CMH
SHEET: L2
APPROVED BY: AWH
PLOT DATE: OCT. 14, 2021

Project Name:	City of Brampton Fire Station 201	**Date Issued:**	October 18, 2021
Quasar Project #:	CM-21-083		
Client Project #:	20019		

Distribution

Salter Pilon Architecture	Ryan Stitt	rstitt@salterpilon.com
Salter Pilon Architecture	Brandon Bortoluzzi	bbortoluzzi@salterpilon.com
Salter Pilon Architecture	Nick Laurin	nlaurin@salterpilon.com

Addendum #:	1
Revision #:	0

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith. Answers to Requests For Information below shall form part of the project specifications and are identified in bold following QCG (Quasar Consulting Group).

Requests for Information:

1. For below ground plumbing work, please confirm finished floor elevation and how to interpret inverts. What does T.O.F. stand for?
   QCG: Finished Floor Elevation (FFE) for the purpose of understanding invert depths shall be read of 0.0 mm. Inverts are defined as millimeters below FFE and are shown to the two decimal places; given that the measurement is in millimeters, the decimal places can be ignored. T.O.F. stands Top Of Foundation.

Changes to Specification:

1. **Section 23 30 00 – HVAC AIR DISTRIBUTION (not issued)**

   Refer to previously issued section 23 30 00 and add the following:

   2.21 HIGH-INDUCTION SWIRL DIFFUSERS

   .1 Swirl diffusers of type, size, capacity, finish, and arrangement as shown on drawings and in accordance with drawing schedule, each equipped with all required mounting and connection accessories to suit mounting location and application.

   .2 Diffusers complete with engineered plenum with side or top inlet and equalisation grid. Plenum Height to be customized as per site conditions.

   .3 Face plate complete with integrated, adjustable 100 mm long eccentric rollers with a suitable identification to permit adjustment of air flow pattern over 180 degrees.

   .4 Acceptable manufacturers are:

   .1 Kampmann Kaswirl;

   .2 Nad Klima DAL 358.”

Quasar Consulting Group

Craig Watson

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