Phase 1 Environmental Site Assessment

Based on Ontario Regulation 153/04

BEN ENGINEERING

Environmental and Building Engineering

0 Bernida Road
Mississauga, Ontario

Professional Engineers Ontario

October 22, 2019 (revised)

7368 Yonge Street, Suite 307, Thornhill, L4J 8H9, Ontario
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Date:

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Prepared for:

Technisonic Industries Ltd.

File: 884260101901

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1. EXECUTIVE SUMMARY

Ben Engineering, Inc. was retained by Technisonic Industries Ltd. to prepare a Phase 1 Environmental Site Assessment (ESA) for a property located at 0 Bernida Road, Mississauga, Ontario, subsequently referred to in this report as the "*phase one property*".

The purpose of the assessment is to identify any potential source of environmental risk on the Phase One Property that might be a result of past or present use of the land, structure components and site operation. The scope of work is in accordance to Ontario Regulations 153/04, 511/09 and 269/11.

The activities carried out to achieve the primary objectives of this Phase 1 ESA included the following:

- Reviewing background information;
- Visiting the site;
- Interviewing persons familiar with the site;
- Reviewing the available documentation;
- Writing a report

Information regarding the site was primarily obtained from governmental and municipal agencies and databases, and partially provided by the current owner. The background information obtained for this assessment indicates that the site has always been an undeveloped vacant lot.

Subject to the scope of work and the limitations of this assessment, there are no issues that may raise concerns about major environmental issues related to the site. No further investigation is required at this time.

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2. INTRODUCTION

Ben Engineering, Inc. was engaged by Technisonic Industries Ltd. (herein the "*Client"*) to prepare a Phase 1 Environmental Site Assessment for a property located at 0 Bernida Road, Mississauga, Ontario, subsequently referred to in this report as the "Phase One Property."

The owner of the Phase One Property and its contact information are:

Name:	Technisonic Industries Ltd
Contact Person	Iva Paclik
Telephone:	905-890-2113 X 100
Email:	iva@til.ca

3. SCOPE OF INVESTIGATION

The purpose of the assessment is to identify any potential environmental risks on the Phase One Property that are a result of past or present use of the land, structural components, and site operation. The scope of work is in accordance with Ontario Regulations 153/04 and 511/09. The general objectives of the Phase One Environmental Site Assessment are described in O. Reg. 511/09, and O. Reg. 153/04 section 24:

"The general objectives of a phase one environmental site assessment are to do the following:

1. To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the phase one property.
2. To determine the need for a phase two environmental site assessment.
3. To provide a basis for carrying out any phase two environmental site assessment required.
4. To provide adequate preliminary information about environmental conditions in the land or water on, in or under the phase one property for the conduct of a risk assessment following completion of a phase two environmental site assessment."

The assessment includes the following major components:

- Reviewing of available background information and documentation, including but not limited to aerial photographs, satellite images, land title search, maps, and plans;
- Interviewing person(s) who are knowledgeable about the site and could provide useful information regarding historical operations and land uses;
- Site reconnaissance and observations of the physical conditions at the Phase One Property and adjacent land uses, noting evidence of potential and/or actual environmental issues;
- An evaluation of the information collected from the sources described above; and,
- Writing a Phase 1 ESA report that documents the findings of the assessment, and providing conclusions.

4. RECORDS REVIEW

4.1 General

4.1.1 Phase One Study Area Determination:

- The Phase One Property consists of 3.7 acres of vacant land. It is located on the north side of a creek in a residential area.
- are no large industrial facilities in a radius of one kilometre from the boundaries of the site; hence, the Phase One Study Area is limited to a minimum of 250 metres from the boundaries of the Phase One Property.

4.1.2 First Developed Use Determination:

- The following information was considered in order to determine when the Phase One Property was first developed. Based on this information, the site has always been a vacant lot.

4.1.3 Fire Insurance Plans:

- There are no fire insurance maps that covers the Phase One Search Area.

4.1.4 Chain of Title:

- The legal description of the property is:

  BLK A PL 417 TORONTO ; MISSISSAUGA

- The following table lists the previous owners/leasers of the Phase One Property:

Name	From	Until
PAUSAK, MILIJANA; PAUSAK,STEVAN; PAUSAK, ELENA; PAUSAK, VJEKOSLAV;	October 20, 1987	March 8, 2019
Technisonic Industries Ltd.	March 8, 2019	Present

- Land registry records obtained from Teranet. Information prior to October 20, 1987 was not included in these records because it had not been yet converted to an electronic file. However, other information reviewed for this assessment shows sufficient information regarding the historical uses of the property; therefore, reviewing older p aper files at the land registry office will unlikely provide additional information related to historical activities of the Phase One Property that might have been a potential source of environmental impact.

4.1.5 Environmental Reports:

- No previous environmental reports were provided for review. Based on the provided information, such reports are not available.

4.1.6 Directories

Directories reviewed for this assessment include:

- Scott's Manufacturing Directory (included in the Eris EcoLog report)
- Online directories
- Street directories

The street is new and therefore, the Phase One Property has never been listed. The directories show that the adjacent properties along Parkland Avenue on the northeast and east sides, and along Contour Drive on the northwest side, have always been residential.

4.2 Environmental Source Information

4.2.1 Ontario Ministry of the Environment

- Freedom of Information search

  A formal request for information was submitted to the Ontario Ministry of the Environment to obtain any information on file regarding the subject site. The request includes information related to any environmental concerns, orders, spills, investigation/prosecutions, and waste generator number/classes. As of the writing of this report, the MOE Freedom of Information Report had not been received and was therefore not available for review.

- Brownfields Environmental Site Registry

  A search of the MOE's Brownfields Environmental Site Registry database has been conducted for the purpose of this assessment. The search result does not indicate that any Record of Site Condition has been filed for the subject site.

4.2.2 Technical Standard and Safety Authority

- Records from the Technical Standard and Safety Authority (TSSA) regarding the status of the site with respect to existing or historical fuel or oil spills, incidents, and any contamination issues associated with the site are included in the EcoLog Environmental Risk Information System (ERIS) provided herein as Appendix A.

4.2.3 EcoLog ERIS

- A request to EcoLog Environmental Risk Information Services Ltd. (ERIS) was submitted for reviewing databases with respect to the Phase One Property and other properties within a radius of 250 metres from the site boundaries. The report is attached herein as Appendix A. The following databases were reviewed:

Abandoned Aggregate Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Aggregate Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Abandoned Mines Information System:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Anderson's Waste Disposal Sites:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Automobile Wrecking & Supplies:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Borehole:

The records reviewed for this assessment do not indicate that any borehole tests have ever been conducted on the Phase One Property. However, there were five boreholes with depths of up to 8.1 metres were conducted within a radius of 250 metres from the Phase One Property. Most of these boreholes were in an area located south to south-east from the site and were conducted in the 1960s and early-1970s. Boreholes locations are attached in Appendix A.

The nearest borehole shows that the soil layers consist of:

- 0 ~ 6.4 m: sand
- 6.4 ~ 7.3 m: sand and silt
- 7.3 ~ 8.1 m sand and clay

Certificates of Approval:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Commercial Fuel Oil Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Chemical Register:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Coal Gasification Plants (Ontario Ministry of the Environment):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Compliance and Convictions (Ontario court):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Certificates of Property Use

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Drill Holes (Department of Mines and Minerals):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Environmental Activity and Sector Registry:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Environmental Registry:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Environmental Compliance Approval:

No relevant information has been found regarding the Phase One Property.

A site located at 1180 Lakeshore Road West, Mississauga, approximately 290 metres north of the Phase One Property has been registered of air emission. However, due to the distance it is unlikely to impact the subject property.

Environmental Effects Monitoring:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Environmental Issues Information System:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

List of TSSA Expired Facilities:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Federal Convictions (Environment Canada):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Fisheries & Oceans Fuel Tanks (Fisheries & Oceans Canada):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Fuel Storage Tank:

Ontario Regulation 347 Waste Generators Summary:

There is no registration related directly to the Phase One Property. However, there are 17 such registrations to properties located within a radius of 300 metres. All of which are located at 1180 Lakeshore Road West, Mississauga at a distance of 290 metres north of the Phase One Property. due to the large distance, these unlikely to impact the subject property.

TSSA Historic Incidents:

No incident was reported which was related directly to the Phase One Property. However, there was one incident at 930 Owenwood Drive, Mississauga at a distance of 300 metres northwest of the subject property, which due to the distance would unlikely impact the subject property.

Indian & Northern Affairs Fuel Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Landfill Inventory Management Ontario:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Canadian Mine Locations:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Mineral Occurrences:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Analysis of Trends in Emergencies System (NATES):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Defence & Canadian Forces Fuel Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Defence & Canadian Forces Spills:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Defence & Canadian Forces Waste Disposal Sites:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Environmental Emergencies System (NEES):

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National PCB Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

National Pollutant Release Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Oil and Gas Wells:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Ontario Oil and Gas Wells:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Inventory of PCB Storage Sites:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Canadian Pulp and Paper:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Parks Canada Fuel Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Pesticide Register:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

TSSA Pipeline Incidents:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Private and Retail Fuel Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Permit to Take Water:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Ontario Regulation 347 Waste Receivers Summary:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Record of Site Condition:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Retail Fuel Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Scott's Manufacturing Directory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Ontario Spills:

There have been no spill incidents related directly to the Phase One Property. There were 18 documented spills within the Phase One Study Area, however, considering the nature of these spills, distances and assumed groundwater flow direction, none of these spills would likely affect the Phase One Property.

Wastewater Discharger Registration Database:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Anderson's Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Transport Canada Fuel Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Variances for Abandonment of Underground Storage Tanks:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Waste Disposal Sites - MOE CA Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

No relevant information has been found regarding the Phase One Property or the Phase One Study Area.

Water Well Information System:

There are no records of any well located at the Phase One Property, and no well was noted during the site reconnaissance.

There are four monitoring wells at 930 Owenwood Drive, about 300 metres northwest of the subject property. These wells were constructed in 2009 and are likely associated with subsurface environmental investigation that was done on that property at that time.

4.3 Physical Setting Sources:

4.3.1 Aerial Photographs

- The following aerial/satellite photographs were reviewed:

Year	Description
2004	The site is a vacant land, located in a residential area. The adjacent properties in all directions are residential houses. A creek is adjacent to the south/southwest side of the site. A large park is further north beyond the residential house and Lake Ontario is further west.
2009	No changes were noted compared to the 2004 photo.
2018	No changes were noted compared to the 2009 photo.

4.3.2 Topography, Hydrology and Geology

- A topographic map of Ontario Base Map series (attached herein in Appendix E).
- The general slope of the Phase One Property is towards the creek on the west/southwest side. However, the surrounding area is generally sloped towards Lake Ontario in the south/southeast direction.
- The water bodies located within the Phase One Study Area include:
  - Turtle Creak adjacent to the Phase One Property along the south/southwest property line.
  - Lake Ontario, located approximately 200 metres west of the Phase One Property
- The following reports and maps were obtained from EcoLog ERIS, and are included herein:
  - Bedrock Geology Report
  - Physiography of Southern Ontario
  - The Surficial Geology of Southern Ontario
  - Detailed Soil Survey
- The physiography of the study area is sand plains.
- The surface geology of the study area includes:
  - North, west and east and south (across the creek):

Deposit Age:	Late Wisconsinan
Primary Material:	Sand
Primary Material Modifier:	Stoney and silty
Secondary Material:	n/a
Primary General:	Glaciolacustrine
Primary General Modifier:	Deltaic
Veneer:	n/a
Episode:	Wisconsin
Sub Episode:	Michigan
Phase:	n/a
Stratus Modifier:	Surface
Provenance:	n/a
Carbon Content:	n/a
Formation:	n/a
Permeability:	High
Material Description:	Predominantly Gravelly Sand and Silty Sand

- South (along the creek banks):

Deposit Age:	Recent
Primary Material:	clay, silt, sand and gravel
Primary Material Modifier:	organic-bearing
Secondary Material:	n/a
Primary General:	fluvial
Primary General Modifier:	modern floodplain
Veneer:	n/a
Episode:	Hudson
Sub Episode:	n/a
Phase:	n/a
Stratus Modifier:	Surface
Provenance:	n/a
Carbon Content:	n/a
Formation:	n/a
Permeability:	Variable
Material Description:	Undifferentiated Gravel, Sand, Silt, Clay and Muck

- The bedrock characteristics of the Phase One Study Area are as follows:

Type	55b
Rock Type (Primary):	Shale, limestone, dolostone, and siltstone
Stratus (Primary):	Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member; Eastview and Member
Super Eon (Primary):	n/a
Eon (Primary):	PHANEROZOIC (Present to 542.0 Ma)
Era (Primary):	PALEOZOIC (251.0 Ma to 542.0 Ma)
Period (Primary):	ORDOVICIAN (443.7 Ma to 488.3 Ma)
Epoch (Primary):	UPPER ORDOVICIAN

4.3.3 Fill Materials

- The records reviewed for this assessment and observation at the time of the site visit, no indication for fill material on the Phase One Property was found.

4.3.4 Water Bodies and Areas of Natural Significance

- Area of Natural & Scientific Interest (ANSI) for the Phase One Study Area was reviewed for this assessment.
- The nearest body of water is the Turtle Cleek that flows from northwest to southeast along the southern side of the Phase One Property. The slope of the property in general is towards this creek.

4.3.5 Well Records

- The Water Well Information System database that is included in the ERIS EcoLog report, attached herein as Appendix A, does not document any well on the Phase One Property. No well was noted during the site reconnaissance as well.

  There are four monitoring wells that were constructed in 2009 about 300 metres northwest, and are likely related to a subsurface environmental investigation that was done there at that time.

4.3.6 Site Operating Records

- No relevant site operating records were available for review.

5. INTERVIEWS

- According to the information provided by the current owner, the property has always been a vacant land. Ms. Iva Paclik was not familiar with any uses of the property prior to that, and could not provide any information about underground storage tanks located on the property. The interview did not provide any information about potential sources of contamination related to the site.

6. SITE RECONNAISSANCE

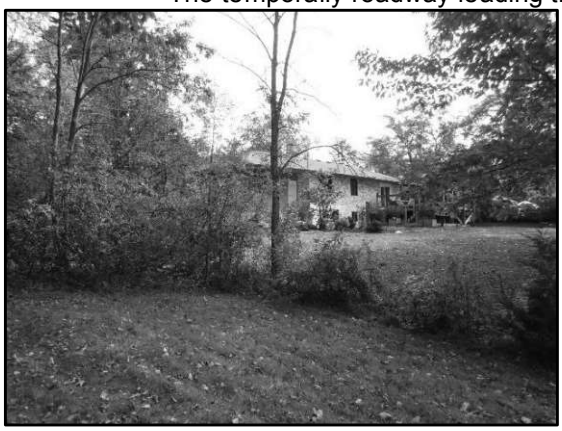
6.1 General

- A site visit was conducted by Joseph Freeman, P. Eng. on October 14, 2019. The inspection included a walk-through the site as well as the areas surrounding the site (where accessible).
- The weather condition at the time of the visit was sunny, and the temperature was 14^{o}c.
- At the time of the investigation the Phase One Property is an undeveloped vacant lot.

The following photographs were taken during the time of the site:


The Phase One Property – currently undeveloped land


The temporally roadway leading the to the Phase One Property




Adjacent residential houses

6.2 Specific Observations at Phase One Property

6.2.1 Description of the Phase One Property:

- The Phase One Property is located in a residential area, which is generality consists of detached houses. Other properties within the study area include a public school located in

the northwest and a memorial park located in the north direction. Lake Ontario i s within the search area as well, located further in the east direction.

- The property consists of an undeveloped vacant lot of approximately 2.3 acres (should be confirmed with a survey plan). It is generally sloped towards the creek adjacent immediately to its south/southwest side (the Turtle Creek).
- The property is not yet connected to sewer, water, electricity or gas lines.
- Based on the provided information, the proposed developing plan includes two residential houses and a new street (Bernida Road) with a traffic cycle.

- **Noise:** As of the time of the site visit, there are no operations ongoing at the Phase One Property that would generate excessive noise levels that are above the acceptable levels in the area.

- **Odours:** No storage of waste materials or other products that may cause offensive odours was observed at the time of the site visit. No issues are anticipated due to odours.

- **Air Emission**: The Phase One Property is an undeveloped land. No sources of air emissions were observed at the time of the site visit.

- **PCBs** were manufactured and used from about 1920 to 1980. In Canada, PCBs were used as coolants and lubricants in transformers, capacitors, old fluorescent lighting fixtures, hydraulic oil, and other electrical equipment because they did not burn easily and were good insulators. However, PCBs are no longer manufactured. The Federal Chlorobiphenyls Regulations SOR/91-152 banned the use of PCB in electric equipment installed after July 1, 1980, and in hydraulic and other closed-loop equipment after September 1, 1977.
- The Phase One Property is an undeveloped land and therefore, no equipment that may contain PCBs was noted at the site.

- **Lead:** The majority of homes and structures that have painted surfaces and were built before 1940 were painted with contained lead-based paint. By the 1960's, the use of lead-based paint was decreasing, and by the late 1970's, only trace amounts of lead were found in paint.
- The Phase One Property is an undeveloped land and therefore, building materials that may contain lead were not noted at the site.

- **Asbestos** can be found in many products and construction materials, both friable and non-friable asbestos, particularly in buildings that were constructed prior to 1985. These construction products include, but are not limited to, sprayed fireproofing insulation, thermal insulation, clapboard, roofing shingles, compounds and cement, driveway coating, wallboards, textured latex paints, acoustical ceiling tiles and plaster, and vinyl floor tiles. There has been a dramatic decline in the use of asbestos since the early 1980's. The use of these products has been banned since 1985 by the Ontario Regulation 654/85 ("Asbestos on Construction Projects and in Buildings and Repair Operations", which was replaced in 2005 by the Ontario Regulation 278/05). As such, the use of asbestos insulation in buildings and heating systems has virtually disappeared.
- The Phase One Property is an undeveloped land and therefore, building materials that may contain asbestos were not noted at the site.

6.2.2 Areas of the Phase One property not covered by structures:

- The Phase One Property is an undeveloped land and therefore, the entire property is not covered by any type of structure.

- No wells or any type were noted on the property.
- There are no current of former railway lines that cross the Phase One Property.

6.3 Enhanced Investigation Property

- Based on the information reviewed for this assessment, the Phase One Property has never been used in whole or in part for any of the operations listed in Clause 32 (1) (b). Therefore, the Phase One Property is not defined as an Enhanced Investigation Property
- The following information was collected and documented with respect to the current and past activities on the Phase One Property:
  a. The records and the information reviewed for this assessment do not indicate that any manufacturing activity has ever been conducted at the Phase One Property. There are also no records about by-products.
  b. The records reviewed for this assessment and the findings at the time of the site visit do not show any evidence of spill occurring directly at the Phase One Property.

7. REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

- The Phase One Property has always been an undeveloped land.

7.2 Potentially Contaminating Activity

- Subject to the scope of work and the limitations of this assessment, there are no issues that raise concerns about current and past potential contaminating activities on the Phase One Property.

7.3 Areas of Potential Environmental Concern

The records that were available for review at the time this report was prepared did not raise potential environmental concerns at the Phase One Property or the surrounding areas, which would likely cause and environmental impact at the subject property.

7.4 Phase One Conceptual Site Model

- The figures attached herein in Appendixes C, D and E illustrate the following, when applicable:
  - existing building on the Phase One Property;
  - water bodies located in whole or in part on the phase one study area;
  - areas of natural significance located in whole or in part on the phase study area;
  - roads, including names, within the phase one study area; and
  - uses of properties adjacent to the phase one property.

8. STATEMENT OF QUALIFICATIONS

This assessment has been prepared by Joseph Freeman, P. Eng., a civil engineer with 27 years of substantial engineering experience in Canada and overseas, which includes inspections and assessments of numerous types of properties of different types, ages, and uses involving environmental issues, and the preparation of environmental assessments.

Mr. Freeman is registered as a Professional Engineer (P.Eng.) with the Professional Engineers Ontario (PEO), The Association of Professional Engineers and Geoscientists of British Columbia (AOEGBC), and is registered as a Qualified Person ($Q.P_{ESA}$) with the Ministry of the Environment and Climate Change.

9. LIMITATIONS

The purpose of this report is to provide an overview of potential environmental concerns, past or present, related to the Phase One Property. However, the scope of the report is limited by the availability of information and/or visual external evidence accessible for direct observation as per the time of preparation of this report and the conduct of the site reconnaissance. It is possible that unreported waste disposal or other activity that might affect environmental status is present at the site and is not included in this report. Should this be the case, the user of this report must notify Ben Engineering, and a modification of the conclusions will be considered.

No further implication of expressed warranties has been made as regards the professional services described in the contract and included in this assessment report.

Some of the conclusions included in this report may be based on information provided by others, and the accuracy of such information cannot be absolutely verified.

10. DISCLAIMER

This report was prepared for the sole use of Technisonic Industries Ltd., herein called the Client and by the City of Mississauga. This report is subject to the terms and liability limitation described in the Agreement accepted by the Client. Any other third-party use of the information contained in this report is not permitted without prior written authorization from Ben Engineering, Inc. Any use or reliance on the information contained in this report by a third party is the sole responsibility of such third party.

Ben Engineering, Inc. and/or its employees accept no responsibility or liability resulting from the use of the information contained in this report. The scope of this assessment was limited to a review of available background information, site reconnaissance, contact with selected regulatory agencies, and interview with the person(s) familiar with the site. It is also noted that no sampling or analyses of any materials were carried out as part of this Phase 1 ESA. The results of this assessment must be viewed with regards to the limited scope of work conducted.

11. CONCLUSIONS

- The scope of work is based on general accordance with Ontario Regulations 153/04, 511/09 and 269/11 for Records of Site Condition. The conclusions and recommendations provided below are based on observations made at the time of the site reconnaissance in the areas of that were accessible for inspection, a review of available background documentation and information obtained through personal interviews.

- A site reconnaissance of the Phase One Property and the Phase One Study Area (where accessible) was conducted by Joseph Freeman, P.Eng. of Ben Engineering on October 14, 2019.
- Background information regarding the Phase One Property was provided by current owner. Additional information was obtained from the review of available publications, and by a formal request from appropriate public agencies.
- The property is located in an area that was primarily developed with residential properties. Based on the available information, it has always been an undeveloped vacant land.
- Historical Summary: Based on the historic records and background information regarding the Phase One Property and the phase one study area, there are no issues that are likely to raise a concern for a substantial environmental impact in respect to the Phase One Property.
- Site Reconnaissance Summary: Based on a visual inspection of the accessible areas of the Phase One Property and the phase one study area (where accessible), as of the time of the site visit, there are no issues that are likely to raise a concern for a subs tantial environmental impact in respect to the Phase One Property.
- Subject to the scope of work and the limitations of this assessment, no issues that may raise concerns about major environmental concerns related to the Phase One Property were identify, and therefore, a Phase Two Environmental Site Assessment is not required for filing a Record of Site Condition.

Report Prepared By:

Ben Engineering, Inc.

Joseph Freeman, P.Eng. $Q.P_{ESA}$

October 22, 2019 (revised)

12. REFERENCES

Listed below is the documents and data cited in this report:

- EcoLog Environmental Risk Information Services (ERIS) report, which includes information from the following databases and related to the Phase One Property and the phase one study area. The complete report is attached herein as Appendix A:
  - Abandoned Aggregate Inventory
  - Abandoned Mines Information System
  - Aggregate Inventory
  - Anderson's Storage Tanks
  - Anderson's Waste Disposal Sites
  - Automobile Wrecking & Supplies
  - Borehole
  - Canadian Mine Locations (Canadian & American Mines Handbook)
  - Canadian Pulp and Paper
  - Certificates of Approval
  - Chemical Register
  - Coal Gasification Plants (Ontario Ministry of the Environment)
  - Compliance and Convictions (Ontario court)
  - Contaminated Sites on Federal Land (The Treasury Board of Canada Secretariat)
  - Drill Holes (Department of Mines and Minerals)
  - Environmental Effects Monitoring
  - Environmental Issues Inventory System
  - Environmental Registry
  - ERIS Historical Searches
  - Federal Convictions (Environment Canada)
  - Fisheries & Oceans Fuel Tanks (Fisheries & Oceans Canada)
  - Indian & Northern Affairs Fuel Tanks (The Department of Indian & Northern Affairs Canada)
  - Mineral Occurrences (Ministry of Northern Development and Mines)
  - National Analysis of Trends in Emergencies System (Environment Canada)
  - National Defence & Canadian Forces Fuel Tanks (the Department of National Defence and the Canadian Forces)
  - National Defence & Canadian Forces Spills (the Department of National Defence and the Canadian Forces)
  - National Defence & Canadian Forces Waste Disposal Sites (the Department of National Defence and the Canadian Forces)
  - National Environmental Emergencies System

- National PCB Inventory (Environment Canada)
- National Pollutant Release Inventory (Environment Canada)
- Non-Compliance Reports (Ontario Ministry of the Environment)
- Oil and Gas Wells (The Nickle's Energy Group)
- Ontario Inventory of PCB Storage Sites (the Ontario Ministry of Environment, Waste Management Branch)
- Ontario Oil and Gas Wells
- Ontario Regulation 347 Waste Generators Summary
- Ontario Regulation 347 Waste Receivers Summary
- Ontario Spills (Occurrence Reporting Information System)
- Parks Canada Fuel Storage Tanks (Canadian Heritage)
- Pesticide Register (Ontario Ministry of the Environment)
- Private and Retail Fuel Storage Tanks (The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations)
- Record of Site Condition (Ontario Ministry of the Environment's Brownfields Environmental Site Registry)
- Retail Fuel Storage Tanks
- Scott's Manufacturing Directory
- Transport Canada Fuel Storage Tanks
- TSSA Commercial Fuel Oil Tanks
- TSSA Fuel Storage Tanks (The Technical Standards & Safety Authority)
- Waste Disposal Sites - MOE 1991 Historical Approval Inventory
- Waste Disposal Sites - MOE CA Inventory
- Wastewater Discharger Registration Database (The Municipal/Industrial Strategy for Abatement)
- Water Well Information System

- Satellite images obtained from Google Earth tool, attached herein as Appendix B.
- Online search (directories, websites, etc.)
- Land title registration, obtained from Teranet.
- Topographic maps.
- Brownfields Environmental Site Registry online search (MOE's website).
- Area of Natural & Scientific Interest report, included in Appendix D.
- Bedrock Geology of Ontario report, included in Appendix D.
- Physiography of Southern Ontario map, included in Appendix D.

- Soil Survey Complex report, included in Appendix D.
- Surface Geology Report, included in Appendix D.
- Street directory (different years)

Appendix A

EcoLog Eris Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Bernida Road, Mississauga* *Bernida Road* *Mississauga ON L5H*
Project No:	
Report Type:	*RSC Report (Urban)*
Order No:	*20191010176*
Requested by:	*Ben Engineering Inc.*
Date Completed:	*October 16, 2019*

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: *Bernida Road, Mississauga*
Bernida Road Mississauga ON L5H

Project No:

Order Information:

Order No: *20191010176*
Date Requested: *October 10, 2019*
Requested by: *Ben Engineering 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*	*0*	*0*
BORE	***Borehole***	*Y*	*0*	*5*	*5*
CA	***Certificates of Approval***	*Y*	*0*	*8*	*8*
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*	*0*	*0*
EBR	***Environmental Registry***	*Y*	*0*	*0*	*0*
ECA	***Environmental Compliance Approval***	*Y*	*0*	*11*	*11*
EEM	***Environmental Effects Monitoring***	*Y*	*0*	*0*	*0*
EHS	***ERIS Historical Searches***	*Y*	*0*	*0*	*0*
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 TSSA Expired Facilities***	*Y*	*0*	*0*	*0*
FCON	***Federal Convictions***	*Y*	*0*	*0*	*0*
FCS	***Contaminated Sites on Federal Land***	*Y*	*0*	*0*	*0*
FOFT	***Fisheries & Oceans Fuel Tanks***	*Y*	*0*	*0*	*0*
FST	***Fuel Storage Tank***	*Y*	*0*	*0*	*0*
FSTH	***Fuel Storage Tank - Historic***	*Y*	*0*	*0*	*0*
GEN	***Ontario Regulation 347 Waste Generators Summary***	*Y*	*0*	*17*	*17*
GHG	***Greenhouse Gas Emissions from Large Facilities***	*Y*	*0*	*0*	*0*
HINC	***TSSA Historic Incidents***	*Y*	*0*	*1*	*1*
IAFT	***Indian & Northern Affairs Fuel Tanks***	*Y*	*0*	*0*	*0*
INC	***TSSA Incidents***	*Y*	*0*	*0*	*0*
LIMO	***Landfill Inventory Management Ontario***	*Y*	*0*	*0*	*0*

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
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	0	0
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	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
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	0	0	0
SPL	Ontario Spills	Y	0	18	18
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	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	4	4
	Total:		0	64	64

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	BORE		ON	ESE/143.5	-2.30	23
2	BORE		ON	NNE/186.4	5.48	24
3	BORE		ON	ESE/215.9	-5.22	25
4	SPL	Enersource Hydro Mississauga Inc.	1301 Gatehouse Drive Mississauga ON	SE/229.9	-2.48	26
5	SPL	UNKNOWN	CREEK AT 1340 CONTOUR DRIVE, MISSISSAUGA MISSISSAUGA CITY ON L5H 1B2	W/245.6	-0.81	27
6	BORE		ON	WSW/246.9	0.05	27
7	BORE		ON	N/248.8	6.81	29
8	SPL	Enbridge Gas Distribution Inc.	802 Bexhill Road Mississauga ON	SW/248.9	0.05	30
9	SPL	The Regional Municipality of Peel	852 Bexhill Court Mississauga ON L5H 3L1	WSW/259.4	0.11	30
10	SPL	The Regional Municipality of Peel	1369 Gatehouse Dr. Mississauga ON	S/260.7	0.02	31
11	SPL	The Regional Municipality of Peel	1381 Bridgestone Lane Mississauga ON	WSW/275.6	0.23	31
12	CA	R.M. OF PEEL	CONTOUR DR/BEXHILL RD/PARKLAND MISSISSAUGA ON	W/289.6	-0.78	32

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	SPL		Contour Drive and Bexhill Rd Mississauga ON	W/289.6	-0.78	32
12	SPL	The Regional Municipality of Peel	Intersection of Contour Dr. and Bexhill Rd. Mississauga ON	W/289.6	-0.78	33
13	CA	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	33
13	CA	ONT. MIN. OF THE ENVIRON. S. PEEL W.SYST	1180 LAKESHORE RD. WEST MISSISSAUGA ON	N/290.8	9.42	34
13	CA	South Peel Water System	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	34
13	CA	Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	34
13	CA	Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	35
13	CA	Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	35
13	CA	Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	35
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L5J 1J9	N/290.8	9.42	35
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	36
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	36
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	36

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	37
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L6T 4B9	N/290.8	9.42	37
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	37
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	37
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L6T 4B9	N/290.8	9.42	38
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	N/290.8	9.42	38
13	ECA	The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON	N/290.8	9.42	38
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	N/290.8	9.42	38
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	N/290.8	9.42	39
13	GEN	Region of Peel	1180 Lakeshore Rd W to Front St South at Lakeshore Mississauga ON L5H 1A1	N/290.8	9.42	40
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	N/290.8	9.42	40
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	N/290.8	9.42	41
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST LORNE PARK WATER TREATMENT PLANT	N/290.8	9.42	41

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			MISSISSAUGA ON			
13	GEN	Tarpon Contracting	1180 Lakeshore Road West Mississagua ON L5H 1J4	N/290.8	9.42	42
13	GEN	Kenaidan Contracting Ltd	1180 Lakeshore Rd. W Mississauga ON	N/290.8	9.42	42
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	N/290.8	9.42	42
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	N/290.8	9.42	43
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	N/290.8	9.42	44
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	N/290.8	9.42	44
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	N/290.8	9.42	45
13	GEN	ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	N/290.8	9.42	46
13	GEN	Kenaidan Contracting Ltd	1180 Lakeshore Rd. W Mississauga ON	N/290.8	9.42	47
13	SPL	Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	47
13	SPL	Marlen Technical Services Inc.<UNOFFICIAL>	Lorne Park- 1180 Lakeshore Rd W Mississauga ON L5H 1J4	N/290.8	9.42	47
13	SPL	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	48

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	SPL	The Regional Municipality of Peel; Ontario Clean Water Agency	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	48
13	SPL	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	49
13	SPL	The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	49
13	SPL	Ontario Clean Water Agency	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	50
13	SPL	Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	N/290.8	9.42	50
14	WWIS		Mississauga ON ***Well ID:*** 7130059	NW/295.8	9.57	51
14	WWIS		Mississauga ON ***Well ID:*** 7122465	NW/295.8	9.57	52
15	WWIS		Mississauga ON ***Well ID:*** 7130057	NW/296.5	9.97	55
15	WWIS		Mississauga ON ***Well ID:*** 7122466	NW/296.5	9.97	56
16	SPL		734 Bexhill Rd (off Lakeshore)<UNOFFICIAL> Mississauga ON	S/296.8	1.05	59
17	GEN	Peel District School Board	930 Owenwood Drive Mississauga ON L5H 3J2	NW/298.6	9.20	59
17	GEN	Peel District School Board	930 Owenwood Drive Mississauga ON L5H 3J2	NW/298.6	9.20	60
17	HINC		930 OWENWOOD DRIVE MISSISSAUGA ON L5H 3J2	NW/298.6	9.20	60

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	SPL	MISSISSAUGA HYDRO	930 OWENWOOD DRIVE, OWENWOOD SCHOOL PROPERTY TRANSFORMER MISSISSAUGA CITY ON L5H 3J2	NW/298.6	9.20	60

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 5 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	143.5	1
	ON	186.4	2
	ON	215.9	3
	ON	246.9	6
	ON	248.8	7

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 8 CA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
R.M. OF PEEL	CONTOUR DR/BEXHILL RD/PARKLAND MISSISSAUGA ON	289.6	12
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	290.8	13

Site	Address	Distance (m)	Map Key
Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	290.8	13
South Peel Water System	1180 Lakeshore Road West Mississauga ON	290.8	13
ONT. MIN. OF THE ENVIRON. S. PEEL W.SYST	1180 LAKESHORE RD. WEST MISSISSAUGA ON	290.8	13
Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	290.8	13
Lorne Park Water Treatment Plant	1180 Lakeshore Road West Mississauga ON	290.8	13

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Aug 31, 2019 has found that there are 11 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13

Site	Address	Distance (m)	Map Key
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Road West Mississauga ON L6T 4B9	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON L5J 1J9	290.8	13

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 31, 2019 has found that there are 17 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	290.8	13

Site	Address	Distance (m)	Map Key
Kenaidan Contracting Ltd	1180 Lakeshore Rd. W Mississauga ON	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	290.8	13
Region of Peel	1180 Lakeshore Rd W to Front St South at Lakeshore Mississauga ON L5H 1A1	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON L5E 1W6	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	290.8	13
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST LORNE PARK WATER TREATMENT PLANT MISSISSAUGA ON	290.8	13
Tarpon Contracting	1180 Lakeshore Road West Mississagua ON L5H 1J4	290.8	13
Kenaidan Contracting Ltd	1180 Lakeshore Rd. W Mississauga ON	290.8	13

Site	Address	Distance (m)	Map Key
ONTARIO CLEAN WATER AGENCY	1180 LAKESHORE ROAD WEST MISSISSAUGA ON	290.8	13
Peel District School Board	930 Owenwood Drive Mississauga ON L5H 3J2	298.6	17
Peel District School Board	930 Owenwood Drive Mississauga ON L5H 3J2	298.6	17

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	930 OWENWOOD DRIVE MISSISSAUGA ON L5H 3J2	298.6	17

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2019 has found that there are 18 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enersource Hydro Mississauga Inc.	1301 Gatehouse Drive Mississauga ON	229.9	4
UNKNOWN	CREEK AT 1340 CONTOUR DRIVE, MISSISSAUGA MISSISSAUGA CITY ON L5H 1B2	245.6	5
Enbridge Gas Distribution Inc.	802 Bexhill Road Mississauga ON	248.9	8
The Regional Municipality of Peel	852 Bexhill Court Mississauga ON L5H 3L1	259.4	9

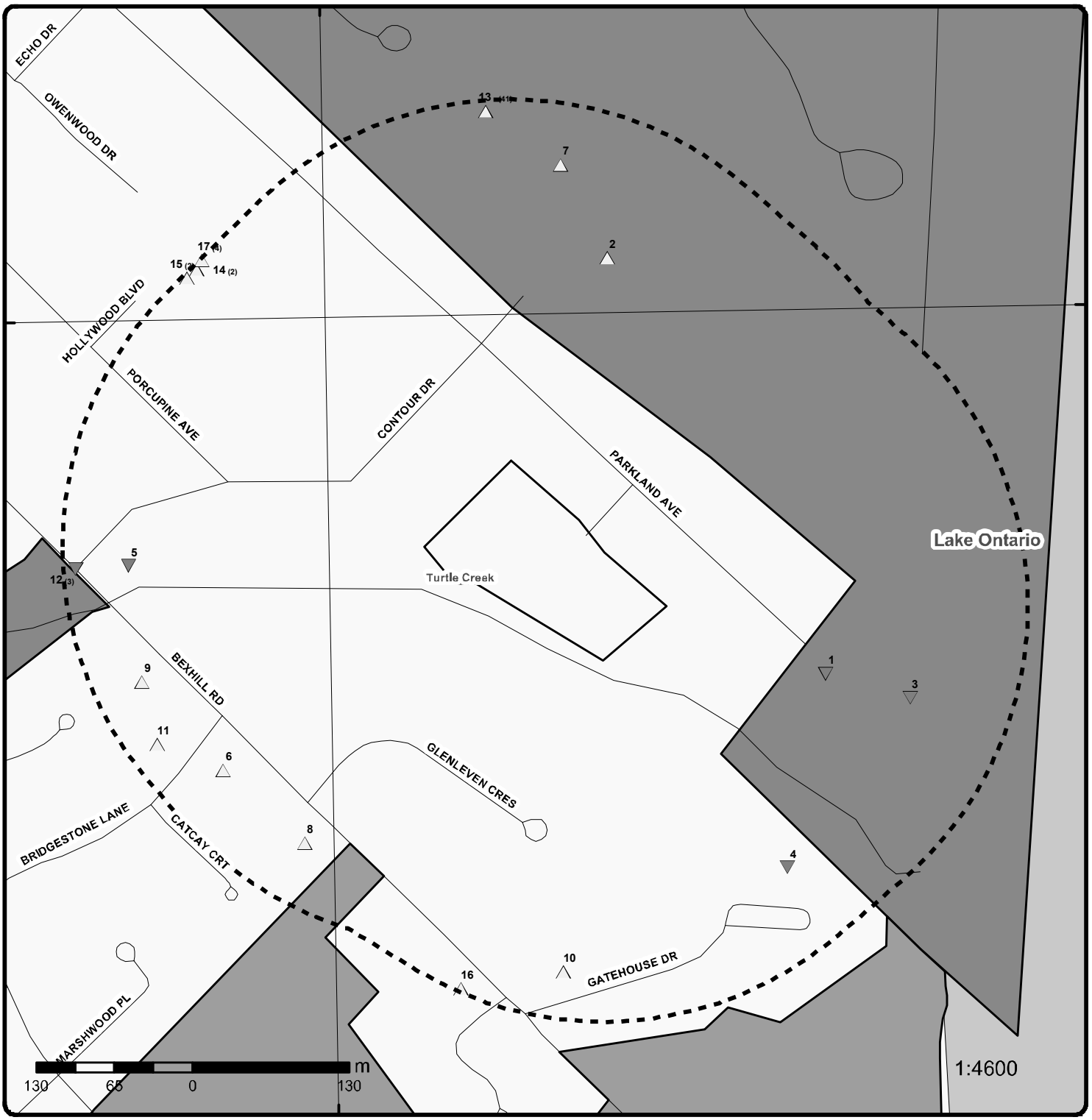
Site	Address	Distance (m)	Map Key
The Regional Municipality of Peel	1369 Gatehouse Dr. Mississauga ON	260.7	10
The Regional Municipality of Peel	1381 Bridgestone Lane Mississauga ON	275.6	11
	Contour Drive and Bexhill Rd Mississauga ON	289.6	12
The Regional Municipality of Peel	Intersection of Contour Dr. and Bexhill Rd. Mississauga ON	289.6	12
Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
Marlen Technical Services Inc.<UNOFFICIAL>	Lorne Park- 1180 Lakeshore Rd W Mississauga ON L5H 1J4	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
The Regional Municipality of Peel; Ontario Clean Water Agency	1180 Lakeshore Rd W Mississauga ON	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
The Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
Regional Municipality of Peel	1180 Lakeshore Rd W Mississauga ON	290.8	13
Ontario Clean Water Agency	1180 Lakeshore Rd W Mississauga ON	290.8	13

Site	Address	Distance (m)	Map Key
	734 Bexhill Rd (off Lakeshore)<UNOFFICIAL> Mississauga ON	296.8	16
MISSISSAUGA HYDRO	930 OWENWOOD DRIVE, OWENWOOD SCHOOL PROPERTY TRANSFORMER MISSISSAUGA CITY ON L5H 3J2	298.6	17

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 4 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Mississauga ON ***Well ID:*** 7130059	295.8	14
	Mississauga ON ***Well ID:*** 7122465	295.8	14
	Mississauga ON ***Well ID:*** 7130057	296.5	15
	Mississauga ON ***Well ID:*** 7122466	296.5	15



Map : 0.3 Kilometer Radius

Order No: 20191010176

Address: Bernida Road, Mississauga, ON, L5H

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

Source: © 2015 DMTI Spatial Inc.

79°36'W

43°31'30"N

43°31'30"N

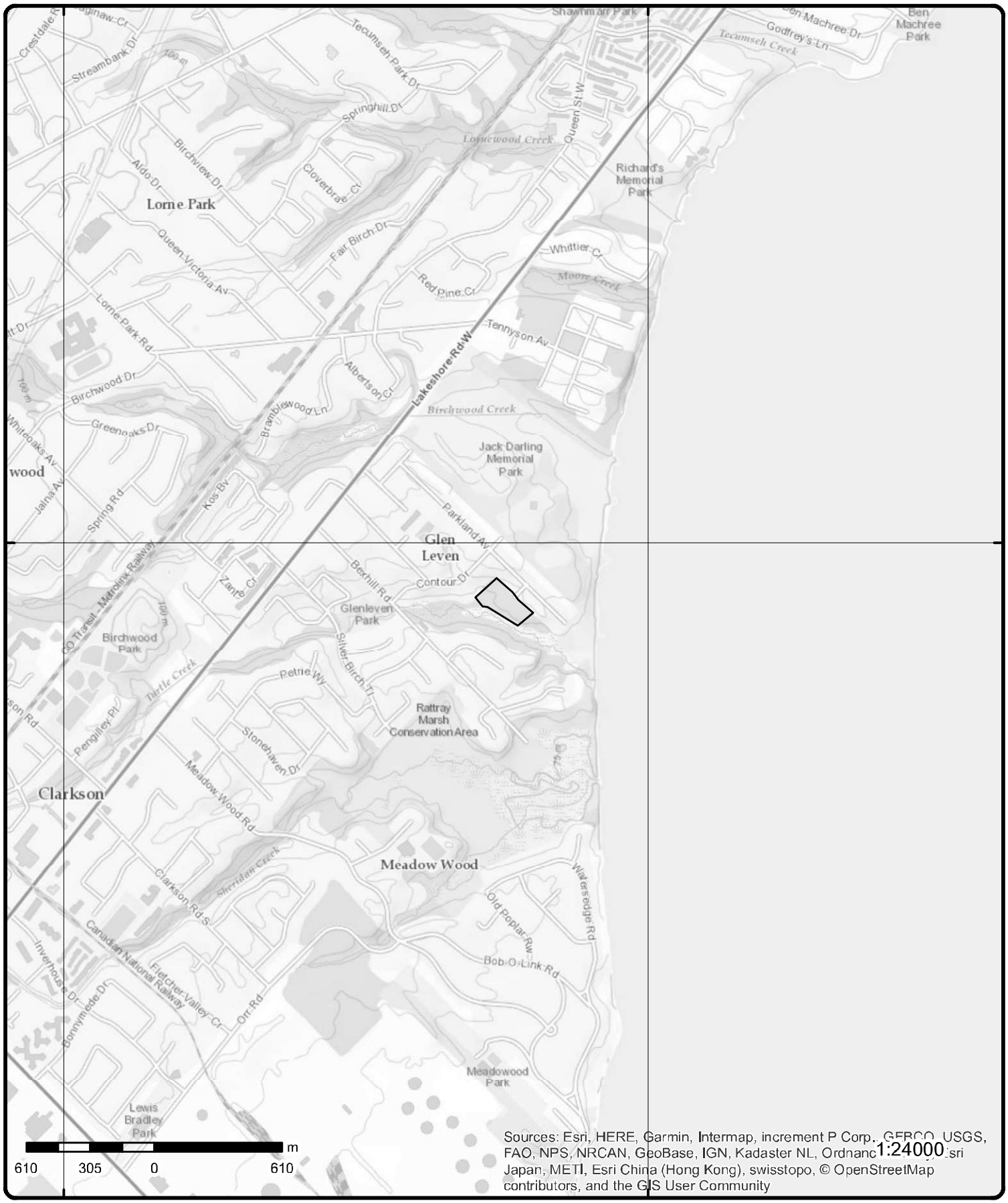
Aerial (2018)

Address: Bernida Road, Mississauga, ON, L5H

Source: ESRI World Imagery

Order No: 20191010176

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: Bernida Road, Mississauga, ON, L5H

Source: ESRI World Topographic Map

Order No: 20191010176

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ESE/143.5	78.5 / -2.30	ON	BORE

Borehole ID:	637757	**Inclin FLG:**	No
OGF ID:	215538154	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	AUG-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.522276
Total Depth m:	3.7	**Longitude DD:**	-79.603296
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	612875
Drill Method:		**Northing:**	4819763
Orig Ground Elev m:	84.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	78.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218481686	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			

Stratum Description: SAND. LACUSTRINE,AGE GLACIAL. Y. LAC **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:	L	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 057200 NTS_Sheet: 30M12A
Confiden 1: Gives some indication of sub-surface condition but material is unknown.

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

2 **1 of 1** **NNE/186.4** **86.3 / 5.48** **ON** **BORE**

Borehole ID:	645467	**Inclin FLG:**	No
OGF ID:	215545850	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUL-1968	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.525409
Total Depth m:	8.1	**Longitude DD:**	-79.605464
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	612694
Drill Method:	Power auger	**Northing:**	4820108
Orig Ground Elev m:	87.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	88		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218511486	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	6.4	**Material Texture:**	Fine to Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND-FINE TO MEDIUM.BROWN,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218511487	**Mat Consistency:**	
Top Depth:	6.4	**Material Moisture:**	Wet
Bottom Depth:	7.3	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT. BROWN,FLUVIO-GLACIAL,WET, AGE GLACIAL, WATER STABLE AT 287.3 FEET.		

Geology Stratum ID:	218511488	**Mat Consistency:**	
Top Depth:	7.3	**Material Moisture:**	
Bottom Depth:	8.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND,CLAY. BROWN,FLUVIO-GLACIAL, AGE GLACIAL. 020 020 0000007300240097 **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: TOR2.txt RecordID: 134890 NTS_Sheet: 30M12A		
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		

3 ***1 of 1*** ***ESE/215.9*** ***75.6 / -5.22*** ***ON*** ***BORE***

Borehole ID:	642077	***Inclin FLG:***	No
OGF ID:	215542472	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	DEC-1969	***Municipality:***	
Static Water Level:	0.6	***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.522085
Total Depth m:	5.9	***Longitude DD:***	-79.602435
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	612945
Drill Method:	Diamond Drill	***Northing:***	4819743
Orig Ground Elev m:	75.3	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	76.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218498410	***Mat Consistency:***	Loose
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	beach
Gsc Material Description:			
Stratum Description:	SAND,GRAVEL. GREY,BROWN,BEACH,LOOSE, AGE POST-GLACIAL.		

Geology Stratum ID:	218498411	***Mat Consistency:***	Soft
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	3.7	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Peat	***Geologic Formation:***	

Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	PEAT(44),SILT,SAND. BROWN,SOFT,AGE POST-GLACIAL, WATER STABLE AT 244.9 FEET.		

Geology Stratum ID:	218498412	**Mat Consistency:**	Firm
Top Depth:	3.7	**Material Moisture:**	
Bottom Depth:	5.2	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY(28), SILT(45),GRAVEL. GREY,GLACIAL,FIRM,AGE GLACIAL.		

Geology Stratum ID:	218498413	**Mat Consistency:**	Hard
Top Depth:	5.2	**Material Moisture:**	
Bottom Depth:	5.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY, GRAVEL. GREY,GLACIAL,HARD,AGE GLACIAL. 027025034 01500602300030004001701 0 **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: TOR2.txt RecordID: 100970 NTS_Sheet: 30M12A		
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		

4 ***1 of 1*** ***SE/229.9*** ***78.3 / -2.48*** ***Enersource Hydro Mississauga Inc.*** ***SPL***
1301 Gatehouse Drive
Mississauga ON

Ref No:	6473-9ZDQKC	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	8/14/2015	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:		**Agency Involved:**	
Contaminant Code:	26	**Nearest Watercourse:**	
Contaminant Name:	TRANSFORMER OIL (GT 50 PPM PCB)	**Site Address:**	1301 Gatehouse Drive
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	

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

Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	4819602
MOE Response:	No	**Easting:**	612843
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/14/2015	**Site Map Datum:**	
Dt Document Closed:	10/17/2015	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	
Site Name:	residential site<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Enersource, Transformer oil spill, 59 L to land, clng		
Contaminant Qty:	59 L		

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5 *1 of 1* *W/245.6* *80.0 / -0.81* ***UNKNOWN CREEK AT 1340 CONTOUR DRIVE, MISSISSAUGA MISSISSAUGA CITY ON L5H 1B2*** **SPL**

Ref No:	87580	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	6/25/1993	**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:	CONFIRMED	**Site Municipality:**	21102
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	MOEE, REGION OF PEEL, FD
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	6/25/1993	**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:	UNKNOWN SOURCE - UNK QTY DIESEL FUEL TO CREEK: CONTAINED WITH BOOMS.		
Contaminant Qty:			

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6 *1 of 1* *WSW/246.9* *80.8 / 0.05* ***ON*** **BORE**

Borehole ID:	650329	**Inclin FLG:**	No
OGF ID:	215550681	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	DEC-1971	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.521631
Total Depth m:	6.6	**Longitude DD:**	-79.609498
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	612375

Drill Method:	Power auger	**Northing:**	4819683
Orig Ground Elev m:	86.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	85.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218529551	**Mat Consistency:**	Dense
Top Depth:	3.3	**Material Moisture:**	
Bottom Depth:	6.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	Quaternary
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,DENSE,AGE QUATERNARY. 013 019 016 0007903800109073 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218529550	**Mat Consistency:**	Dense
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	3.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	Quaternary
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,SAND. BROWN,DENSE,AGE QUATERNARY.		

Geology Stratum ID:	218529549	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	Quaternary
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT. BROWN,DENSE,AGE QUATERNARY.		

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: 209890 NTS_Sheet: 30M12A		
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

7 **1 of 1** **N/248.8** **87.6 / 6.81** **ON** **BORE**

Borehole ID:	645466	***Inclin FLG:***	No
OGF ID:	215545849	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	AUG-1968	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.526108
Total Depth m:	14.2	***Longitude DD:***	-79.60593
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	612655
Drill Method:	Power auger	***Northing:***	4820185
Orig Ground Elev m:	880	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	88.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218511482	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	5.8	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SAND. BROWN,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218511483	***Mat Consistency:***	
Top Depth:	5.8	***Material Moisture:***	
Bottom Depth:	9.1	***Material Texture:***	Medium
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT. GREY,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218511484	***Mat Consistency:***	
Top Depth:	9.1	***Material Moisture:***	
Bottom Depth:	13.1	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. GREY,FLUVIO-GLACIAL,LAYERED, AGE GLACIAL.		

Geology Stratum ID:	218511485	***Mat Consistency:***	
Top Depth:	13.1	***Material Moisture:***	
Bottom Depth:	14.2	***Material Texture:***	Medium

Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM. GREY,FLUVIO-GLACIAL, AGE GLACIAL. 020 017 018 0 **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: TOR2.txt RecordID: 134880 NTS_Sheet: 30M12A		
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		

8 | ***1 of 1*** | ***SW/248.9*** | ***80.8 / 0.05*** | ***Enbridge Gas Distribution Inc.*** ***802 Bexhill Road*** ***Mississauga ON*** | ***SPL***

Ref No:	6054-AF2S3N	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2016/10/24	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	802 Bexhill Road
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2016/10/24	**Site Map Datum:**	
Dt Document Closed:	2016/12/17	**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	residential<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA: 1/2" line strike - made safe-		
Contaminant Qty:	0 other - see incident description		

9 | ***1 of 1*** | ***WSW/259.4*** | ***80.9 / 0.11*** | ***The Regional Municipality of Peel*** | ***SPL***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				852 Bexhill Court Mississauga ON L5H 3L1	

Ref No:	3036-88LPC9	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Other
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:**	
Nature of Impact:	Other Impact(s)	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/23/2010	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:		**Source Type:**	

Site Name: Watermain<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Turtle Creek, 852 Bexhill Court, water main break
Contaminant Qty:

10	***1 of 1***	***S/260.7***	***80.8 / 0.02***	***The Regional Municipality of Peel*** ***1369 Gatehouse Dr.*** ***Mississauga ON***	***SPL***

Ref No:	0881-B8ALFK	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2019/01/10	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Municipal Government
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	43	**Nearest Watercourse:**	Unknown Name
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	**Site Address:**	1369 Gatehouse Dr.
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:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Surface Water	**Northing:**	4819490
MOE Response:	No	**Easting:**	612629
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2019/01/10	**Site Map Datum:**	
Dt Document Closed:	2019/02/12	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Equipment Failure	**Source Type:**	Valve/Fitting/Piping

Site Name: 6" Watermain Break Site <UNOFFICIAL>
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Incident Summary: RoP: 6" Watermain Break, sediment laiden water to Turtle Creek
Contaminant Qty: 1 other - see incident description

11	***1 of 1***	***WSW/275.6***	***81.0 / 0.23***	***The Regional Municipality of Peel*** ***1381 Bridgestone Lane***	***SPL***

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

Ref No:	6613-B892NN	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2019/01/08	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Municipal Government
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	SILT	**Site Address:**	1381 Bridgestone Lane
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:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Surface Water	**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2019/01/08	**Site Map Datum:**	
Dt Document Closed:	2019/01/11	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Equipment Failure	**Source Type:**	Water Supply
Site Name:	Location of main break<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	Region of Peel: Watermain break discharging silt to Turtle Creek		
Contaminant Qty:	0 other - see incident description		

12	***1 of 3***	***W/289.6***	***80.0 / -0.78***	***R.M. OF PEEL CONTOUR DR/BEXHILL RD/PARKLAND MISSISSAUGA ON***	***CA***

Certificate #:	7-0288-98-
Application Year:	98
Issue Date:	4/30/1998
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

12	***2 of 3***	***W/289.6***	***80.0 / -0.78***	***Contour Drive and Bexhill Rd Mississauga ON***	***SPL***

Ref No:	1465-7SW45T	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:	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:**	Mississauga
Nature of Impact:	Other Impact(s); Surface Water Pollution	**Site Lot:**	

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

Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	6/10/2009	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:		**Source Type:**	
Site Name:	Turtle Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Silt to Turtle Creek due to water main break.		
Contaminant Qty:			

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12 *3 of 3* *W/289.6* *80.0 / -0.78* ***The Regional Municipality of Peel*** ***Intersection of Contour Dr. and Bexhill Rd.*** ***Mississauga ON*** ***SPL***

Ref No:	3017-B37NJF	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/07/31	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Municipal Government
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Unknown / N/A	**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	SILT	**Site Address:**	Intersection of Contour Dr. and Bexhill Rd.
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:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Surface Water	**Northing:**	4819850.66
MOE Response:	No	**Easting:**	612251.56
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/07/31	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Unknown / N/A	**Source Type:**	Unknown / N/A
Site Name:	Turtle Creek<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	RoPeel: Silty Water in Turtle Creek - No Source		
Contaminant Qty:	0 other - see incident description		

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13 *1 of 41* *N/290.8* *90.2 / 9.42* ***The Regional Municipality of Peel*** ***1180 Lakeshore Rd W*** ***Mississauga ON*** ***CA***

Certificate #:	9821-7BASN5
Application Year:	2008
Issue Date:	1/29/2008
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
13	2 of 41	N/290.8	90.2 / 9.42	ONT. MIN. OF THE ENVIRON. S. PEEL W.SYST 1180 LAKESHORE RD. WEST MISSISSAUGA ON	CA

Certificate #: 7-0013-86-
Application Year: 86
Issue Date: 5/2/1986
Approval Type: Municipal water
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
13	3 of 41	N/290.8	90.2 / 9.42	South Peel Water System 1180 Lakeshore Road West Mississauga ON	CA

Certificate #: 6171-4GZLP8
Application Year: 00
Issue Date: 3/7/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: This application is for the replacement of existing coagulation facilities (in-line blenders) and the installation of baffles to improve flow regimes.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	4 of 41	N/290.8	90.2 / 9.42	Lorne Park Water Treatment Plant 1180 Lakeshore Road West Mississauga ON	CA

Certificate #: 6330-5ELRLJ
Application Year: 02
Issue Date: 10/11/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: The Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: This application for an amended certificate of approval includes the following: -construct building expansion, extend existing suction and discharge headers; -install two (2) new high lift pumps and one (1) new low lift pump. Future installation includes six (6) new high lift and six (6) new low lift pumps; -modify existing pumps by trimming impellers; -associated electrical instrumentation and SCADA work; and -tree transplanting, regrading and landscaping. This application to add rechlorination facilities at Meadowvale North PS. This is an amendment to the Lorne Park WTP cCofA
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	5 of 41	N/290.8	90.2 / 9.42	Lorne Park Water Treatment Plant 1180 Lakeshore Road West Mississauga ON	CA

Certificate #: 4227-4LNRRB
Application Year: 00
Issue Date: 6/27/00
Approval Type: Industrial air
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: This application is for an Air Certificate of Approval is for 2 emergency diesel generator for backup power. One is a 250 kW new generator and one is an existing 100 kW generator.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	6 of 41	N/290.8	90.2 / 9.42	Lorne Park Water Treatment Plant 1180 Lakeshore Road West Mississauga ON	CA

Certificate #: 8274-4K2KXY
Application Year: 00
Issue Date: 6/29/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: 120 ml/d expansion to the existing water treatment plant.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	7 of 41	N/290.8	90.2 / 9.42	Lorne Park Water Treatment Plant 1180 Lakeshore Road West Mississauga ON	CA

Certificate #: 0175-543U3S
Application Year: 02
Issue Date: 2/13/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Lorne Park Water Treatment Plant, rated at 227 ML/d, and consisting of a raw water intake, low lift pumping station, conventional water treatment plant with chemically assisted pretreatment and filtration, chlorine pre and post disinfection facilities, 22700 cu.m treated water reservoir, high lift pumping station, 3 reservoirs and 1 elevated tank, and associated chemical, monitoring and control systems.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	8 of 41	N/290.8	90.2 / 9.42	The Regional Municipality of Peel 1180 Lakeshore Rd W Mississauga ON L5J 1J9	ECA

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

Approval No: 9821-7BASN5
Approval Date: 2008-01-29
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-AIR
Project Type: AIR
Address: 1180 Lakeshore Rd W
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2371-78JKNA-14.pdf
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***9 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel 1180 Lakeshore Road West Mississauga ON L6T 4B9*** | ***ECA***

Approval No: 4227-4LNRRB
Approval Date: 2000-06-27
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-AIR
Project Type: AIR
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8185-4L8NWR-14.pdf
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***10 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel 1180 Lakeshore Road West Mississauga ON L6T 4B9*** | ***ECA***

Approval No: 8274-4K2KXY
Approval Date: 2000-06-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link:
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***11 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel 1180 Lakeshore Road West Mississauga ON L6T 4B9*** | ***ECA***

Approval No: 6330-5ELRLJ
Approval Date: 2002-10-11
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link:
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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

13 *12 of 41* *N/290.8* *90.2 / 9.42* **The Regional Municipality of Peel** **ECA**
1180 Lakeshore Road West
Mississauga ON L6T 4B9

Approval No:	0121-64TKNS	**MOE District:**	Halton-Peel
Approval Date:	2004-10-06	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.60598
Record Type:	ECA	**Latitude:**	43.526627
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Credit Valley	**Geometry Y:**	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Address:	1180 Lakeshore Road West		
Full Address:			
Full PDF Link:			

13 *13 of 41* *N/290.8* *90.2 / 9.42* **The Regional Municipality of Peel** **ECA**
1180 Lakeshore Rd W
Mississauga ON L6T 4B9

Approval No:	6171-4GZLP8	**MOE District:**	Halton-Peel
Approval Date:	2000-03-07	**City:**	
Status:	Approved	**Longitude:**	-79.60598
Record Type:	ECA	**Latitude:**	43.526627
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Credit Valley	**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Address:	1180 Lakeshore Rd W		
Full Address:			
Full PDF Link:			

13 *14 of 41* *N/290.8* *90.2 / 9.42* **The Regional Municipality of Peel** **ECA**
1180 Lakeshore Road West
Mississauga ON L6T 4B9

Approval No:	0175-543U3S	**MOE District:**	Halton-Peel
Approval Date:	2002-02-13	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.60598
Record Type:	ECA	**Latitude:**	43.526627
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Credit Valley	**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Address:	1180 Lakeshore Road West		
Full Address:			
Full PDF Link:			

13 *15 of 41* *N/290.8* *90.2 / 9.42* **The Regional Municipality of Peel** **ECA**
1180 Lakeshore Road West
Mississauga ON L6T 4B9

Approval No:	2787-6Y8MDJ	**MOE District:**	Halton-Peel
Approval Date:	2007-04-02	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.60598
Record Type:	ECA	**Latitude:**	43.526627
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Credit Valley	**Geometry Y:**	
Approval Type:	ECA-Municipal Drinking Water Systems		

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

Project Type: Municipal Drinking Water Systems
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link:

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13 | ***16 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel*** ***1180 Lakeshore Rd W*** ***Mississauga ON L6T 4B9*** | ***ECA***

Approval No: 5498-7CGSRB
Approval Date: 2008-11-21
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Address: 1180 Lakeshore Rd W
Full Address:
Full PDF Link:
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***17 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel*** ***1180 Lakeshore Road West*** ***Mississauga ON L6T 4B9*** | ***ECA***

Approval No: 0720-5G2R3C
Approval Date: 2002-11-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link:
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***18 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel*** ***1180 Lakeshore Road West*** ***Mississauga ON*** | ***ECA***

Approval No: 4676-6FTHAA
Approval Date: 2005-10-31
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Address: 1180 Lakeshore Road West
Full Address:
Full PDF Link:
MOE District: Halton-Peel
City:
Longitude: -79.60598
Latitude: 43.526627
Geometry X:
Geometry Y:

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13 | ***19 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***ONTARIO CLEAN WATER AGENCY*** ***1180 LAKESHORE ROAD WEST*** ***MISSISSAUGA ON*** | ***GEN***

Generator No: ON1808641
Status:
PO Box No:
Country:

Approval Years:	2011	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	221310		
SIC Description:	Water Supply and Irrigation Systems		

Detail(s)

Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	233
Waste Class Desc:	OTHER POLYMERIC WASTES
Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

13 ***20 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***ONTARIO CLEAN WATER AGENCY*** ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON L5E 1W6

Generator No:	ON1808641	**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:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	113 C
Waste Class Desc:	Acid solutions - containing other metals and non-metals
Waste Class:	113 L
Waste Class Desc:	Acid solutions - containing other metals and non-metals
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 221 L
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

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: 331 L
Waste Class Desc: Waste compressed gases including cylinders

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13 ***21 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***Region of Peel*** ***GEN***
1180 Lakeshore Rd W to Front St South at Lakeshore
Mississauga ON L5H 1A1

Generator No: ON3429367
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

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13 ***22 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***ONTARIO CLEAN WATER AGENCY*** ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON L5E 1W6

Generator No: ON1808641
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 221310
SIC Description: WATER SUPPLY AND IRRIGATION SYSTEMS

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Gregory Barber
Phone No Admin: 905 274 6710 Ext.2217

Detail(s)

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

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

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

Waste Class: 114
Waste Class Desc: OTHER INORGANIC ACID WASTES

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

Waste Class: 233
Waste Class Desc: OTHER POLYMERIC WASTES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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13 ***23 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***ONTARIO CLEAN WATER AGENCY*** ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON

Generator No: ON1808641 ***PO Box No:***
Status: ***Country:***
Approval Years: 2009 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 221310
SIC Description: Water Supply and Irrigation Systems

Detail(s)

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

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 233
Waste Class Desc: OTHER POLYMERIC WASTES

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

Waste Class: 114
Waste Class Desc: OTHER INORGANIC ACID WASTES

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13 ***24 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***ONTARIO CLEAN WATER AGENCY*** ***GEN***
1180 LAKESHORE ROAD WEST LORNE PARK
WATER TREATMENT PLANT
MISSISSAUGA ON

Generator No:	ON1808641	**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:	8273		
SIC Description:	ENVIRON. ADMIN.		

Detail(s)

Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

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13 | ***25 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***Tarpon Contracting*** | ***GEN***
1180 Lakeshore Road West
Mississagua ON L5H 1J4

Generator No:	ON8616883	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2015	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	
MHSW Facility:	No	**Phone No Admin:**	
SIC Code:	236220		
SIC Description:	COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION		

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS

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13 | ***26 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***Kenaidan Contracting Ltd*** | ***GEN***
1180 Lakeshore Rd. W
Mississauga ON

Generator No:	ON7217673	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	237990		
SIC Description:	Other Heavy and Civil Engineering Construction		

Detail(s)

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

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13 | ***27 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***ONTARIO CLEAN WATER AGENCY*** | ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON

Generator No:	ON1808641	**PO Box No:**	
Status:		**Country:**	
Approval Years:	99,00,01,02,03,04,05,06,07,08	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	8273		
SIC Description:	ENVIRON. ADMIN.		

Detail(s)

Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

13 ***28 of 41*** ***N/290.8*** ***90.2 / 9.42*** ***ONTARIO CLEAN WATER AGENCY*** ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON

Generator No:	ON1808641	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2012	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	221310		
SIC Description:	Water Supply and Irrigation Systems		

Detail(s)

Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	233
Waste Class Desc:	OTHER POLYMERIC WASTES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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13 | ***29 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***ONTARIO CLEAN WATER AGENCY*** | ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON L5E 1W6

Generator No: ON1808641
Status: Registered
Approval Years: As of Jul 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: 148 C
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: 113 L
Waste Class Desc: Acid solutions - containing other metals and non-metals

Waste Class: 221 L
Waste Class Desc: Light fuels

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 113 C
Waste Class Desc: Acid solutions - containing other metals and non-metals

Waste Class: 145 L
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: 331 L
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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13 | ***30 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***ONTARIO CLEAN WATER AGENCY*** | ***GEN***
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON L5E 1W6

Generator No:	ON1808641	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2016	**Choice of Contact:**	CO_ADMIN
Contam. Facility:	No	**Co Admin:**	Gregory Barber
MHSW Facility:	No	**Phone No Admin:**	905 274 6710 Ext.2217
SIC Code:	221310		
SIC Description:	WATER SUPPLY AND IRRIGATION SYSTEMS		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	233
Waste Class Desc:	OTHER POLYMERIC WASTES
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	113
Waste Class Desc:	ACID WASTE - OTHER METALS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS

13 | ***31 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***ONTARIO CLEAN WATER AGENCY*** | ***GEN***

1180 LAKESHORE ROAD WEST
MISSISSAUGA ON L5E 1W6

Generator No:	ON1808641	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2014	**Choice of Contact:**	CO_ADMIN
Contam. Facility:	No	**Co Admin:**	Gregory Barber
MHSW Facility:	No	**Phone No Admin:**	905 274 6710 Ext.2217
SIC Code:	221310		
SIC Description:	WATER SUPPLY AND IRRIGATION SYSTEMS		

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES

Waste Class: 233
Waste Class Desc: OTHER POLYMERIC WASTES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

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

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13 | **32 of 41** | **N/290.8** | **90.2 / 9.42** | **ONTARIO CLEAN WATER AGENCY**
1180 LAKESHORE ROAD WEST
MISSISSAUGA ON | **GEN**

Generator No: ON1808641
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 221310
SIC Description: Water Supply and Irrigation Systems

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: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 114
Waste Class Desc: OTHER INORGANIC ACID WASTES

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 233
Waste Class Desc: OTHER POLYMERIC WASTES

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	33 of 41	N/290.8	90.2 / 9.42	Kenaidan Contracting Ltd 1180 Lakeshore Rd. W Mississauga ON	GEN

Generator No: ON7217673
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 237990
SIC Description: Other Heavy and Civil Engineering Construction

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

Detail(s)

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	34 of 41	N/290.8	90.2 / 9.42	Regional Municipality of Peel 1180 Lakeshore Rd W Mississauga ON	SPL

Ref No: 1120-7T9SL5
Site No:
Incident Dt:
Year:
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Event:
Contaminant Code:
Contaminant Name: CEMENT DUST
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: Surface Water Pollution
Receiving Medium:
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/22/2009
Dt Document Closed:
Incident Reason:
Site Name: Jack Darling Park
Site County/District:
Site Geo Ref Meth:
Incident Summary: concrete dust discharge Darling Park, from WTP construction
Contaminant Qty: 0 other - see incident description

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: Mississauga
Site Lot:
Site Conc:
Northing: NA
Easting: NA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Watercourse Spills
Source Type:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	35 of 41	N/290.8	90.2 / 9.42	Marlen Technical Services Inc.<UNOFFICIAL> Lorne Park- 1180 Lakeshore Rd W Mississauga ON L5H 1J4	SPL

Ref No: 1308-B4YKLW
Site No: 4422-4FNR5V
Incident Dt: 2018/09/26
Year:
Incident Cause:
Incident Event: Leak/Break
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1: n/a

Discharger Report:
Material Group:
Health/Env Conseq: 2 - Minor Environment
Client Type:
Sector Type: Miscellaneous Industrial
Agency Involved:
Nearest Watercourse:
Site Address: Lorne Park- 1180 Lakeshore Rd W
Site District Office: Halton-Peel
Site Postal Code: L5H 1J4

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

Contaminant UN No 1:	1202	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:	Land	**Northing:**	4820265
MOE Response:	No	**Easting:**	612566
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	Not Available
MOE Reported Dt:	2018/09/26	**Site Map Datum:**	NAD83
Dt Document Closed:	2018/12/05	**SAC Action Class:**	Land Spills
Incident Reason:	Maintenance	**Source Type:**	Truck - Transport/Hauling
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:	NA		
Incident Summary:	Lorne Park WTP diesel spill from vehicle 2 L, cleaned		
Contaminant Qty:	2 L		

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13 | ***36 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel***
1180 Lakeshore Rd W
Mississauga ON | ***SPL***

Ref No:	3585-6YXSK3	**Discharger Report:**	
Site No:		**Material Group:**	Chemicals
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Discharge Or Bypass To A Watercourse	**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:	28	**Nearest Watercourse:**	
Contaminant Name:	WASHWATER (N.O.S.)	**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:**	Mississauga
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:	Water	**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	3/3/2007	**Site Map Datum:**	
Dt Document Closed:	7/11/2007	**SAC Action Class:**	
Incident Reason:	Error- Operator error	**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Lorne Park WTP- discharging chlorinated water to storm sewer		
Contaminant Qty:	1160 m3		

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13 | ***37 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel; Ontario Clean Water Agency***
1180 Lakeshore Rd W
Mississauga ON | ***SPL***

Ref No:	3645-8VLQYR	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	25-JUN-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	WATER	**Site Address:**	1180 Lakeshore Rd W
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	

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

Environment Impact:	Not Anticipated	**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	4820265
MOE Response:		**Easting:**	612566
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	25-JUN-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Primary Assessment of Incident
Incident Reason:		**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	R of Peel: chlorinated wtr to Lake Ont		
Contaminant Qty:			

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13 | ***38 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel***
1180 Lakeshore Rd W
Mississauga ON | ***SPL***

Ref No:	6702-8WYKPQ	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	08-AUG-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	1180 Lakeshore Rd W
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	4820265
MOE Response:	No Field Response	**Easting:**	612566
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	Not Available
MOE Reported Dt:	08-AUG-12	**Site Map Datum:**	NAD83
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:		**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:	NA		
Incident Summary:	Lorne Park WTP, chlorine from wastewater system to L Ont		
Contaminant Qty:			

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13 | ***39 of 41*** | ***N/290.8*** | ***90.2 / 9.42*** | ***The Regional Municipality of Peel***
1180 Lakeshore Rd W
Mississauga ON | ***SPL***

Ref No:	1304-8SSUA8	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	27-MAR-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Discharge Or Bypass To A Watercourse	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	CHLORINATED WATER	**Site Address:**	1180 Lakeshore Rd W
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Mississauga
Nature of Impact:	Surface Water Pollution	**Site Lot:**	

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

Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	4820265
MOE Response:		**Easting:**	612566
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	20-MAR-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Great Lakes and their Interconnecting Channels Spills
Incident Reason:	Other - Reason not otherwise defined	**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Lorne Park WTP - Discharge of Chlorinated Water		
Contaminant Qty:			

13	40 of 41	N/290.8	90.2 / 9.42	**Ontario Clean Water Agency** **1180 Lakeshore Rd W** **Mississauga ON**	SPL

Ref No:	6137-72J5BF	**Discharger Report:**	
Site No:		**Material Group:**	Other
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Discharge Or Bypass To A Watercourse	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	CHLORINATED WATER	**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:**	Mississauga
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:	Water	**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	4/22/2007	**Site Map Datum:**	
Dt Document Closed:	7/11/2007	**SAC Action Class:**	
Incident Reason:	Power Interruption - Loss of electrical power	**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Lorne Park WTP: chlorinated water to Lake Ontario		
Contaminant Qty:	100000 L		

13	41 of 41	N/290.8	90.2 / 9.42	**Regional Municipality of Peel** **1180 Lakeshore Rd W** **Mississauga ON**	SPL

Ref No:	8302-7YAQ4B	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Discharge Or Bypass To A Watercourse	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	WATER (HIGH CHLORINE)	**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:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	

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

Receiving Env:		**Northing:**	4820265
MOE Response:	No Field Response	**Easting:**	612566
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	11/30/2009	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Other - Reason not otherwise defined	**Source Type:**	
Site Name:	Lorne Park Water Treatment Plant		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Lorne Park WTP: Chlorinated water to storm sewer		
Contaminant Qty:	0 other - see incident description		

14 *1 of 2* *NW/295.8* *90.4 / 9.57* *Mississauga ON* **WWIS**

Well ID:	7130059	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Other	**Date Received:**	9/22/2009
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z099362	**Owner:**	
Tag:	A081852	**Street Name:**	930 OWENWOOD DRIVE
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	MISSISSAUGA 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:	1002723522	**Elevation:**	92.261421
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	612353
Code OB Desc:		**North83:**	4820098
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	8/20/2009	**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002856718
Layer:	1
Plug From:	0
Plug To:	2
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002856719
Layer:	2
Plug From:	2
Plug To:	7.6
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1002856715
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002856721
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	
Casing Diameter:	3.45
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002856722
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.2

Hole Diameter

Hole ID:	1002856717
Diameter:	20
Depth From:	0
Depth To:	2
Hole Depth UOM:	m
Hole Diameter UOM:	cm

14 ***2 of 2*** ***NW/295.8*** ***90.4 / 9.57*** ***Mississauga ON*** ***WWIS***

Well ID:	7122465	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	4/29/2009
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:	Z096623	***Owner:***	

Tag:	A081852	***Street Name:***	930 OWENWOOD DR
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	MISSISSAUGA 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:	1002420410	***Elevation:***	92.261421
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	612353
Code OB Desc:		***North83:***	4820098
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	3/22/2009	***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:	1002534607
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	6
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002534608
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	6
Formation End Depth:	7.6

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002534611
Layer: 2
Plug From: 0.31
Plug To: 5.8
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002534612
Layer: 3
Plug From: 5.8
Plug To: 7.6
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002534610
Layer: 1
Plug From: 0
Plug To: 0.31
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: DIRECT PUSH

Pipe Information

Pipe ID: 1002534606
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002534614
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 6.1
Casing Diameter: 3.45
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002534615
Layer: 1

Slot:	10
Screen Top Depth:	6.1
Screen End Depth:	7.6
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.2

Hole Diameter

Hole ID:	1002534609
Diameter:	10.9
Depth From:	0
Depth To:	7.6
Hole Depth UOM:	m
Hole Diameter UOM:	cm

15 ***1 of 2*** ***NW/296.5*** ***90.8 / 9.97*** ***Mississauga ON*** ***WWIS***

Well ID:	7130057	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Other	**Date Received:**	9/22/2009
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z102301	**Owner:**	
Tag:	A081851	**Street Name:**	930 OWENWOOD DRIVE
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	MISSISSAUGA 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:	1002723516	**Elevation:**	92.238784
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	612345
Code OB Desc:		**North83:**	4820091
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	8/20/2009	**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002856572
Layer:	1
Plug From:	0
Plug To:	2
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002856573
Layer:	2
Plug From:	2
Plug To:	8
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1002856569
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002856575
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	
Casing Diameter:	3.45
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002856576
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.2

Hole Diameter

Hole ID:	1002856571
Diameter:	20
Depth From:	0
Depth To:	2
Hole Depth UOM:	m
Hole Diameter UOM:	cm

15 ***2 of 2*** ***NW/296.5*** ***90.8 / 9.97*** ***Mississauga ON*** ***WWIS***

Well ID:	7122466	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	4/29/2009

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:	Z096622	***Owner:***	
Tag:	A081851	***Street Name:***	930 OWENWOOD DR
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	MISSISSAUGA 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:	1002420413	***Elevation:***	92.238784
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	612345
Code OB Desc:		***North83:***	4820091
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	3/22/2009	***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:	1002534623
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	6
Formation End Depth:	8
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002534622
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	

Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002534625
Layer: 1
Plug From: 0
Plug To: 0.31
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002534626
Layer: 2
Plug From: 0.31
Plug To: 6
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002534627
Layer: 3
Plug From: 6
Plug To: 8
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: DIRECT PUSH

Pipe Information

Pipe ID: 1002534621
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002534629
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 6.3
Casing Diameter: 3.45
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID:	1002534630
Layer:	1
Slot:	10
Screen Top Depth:	6.3
Screen End Depth:	8
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	4.5

Hole Diameter

Hole ID:	1002534624
Diameter:	10.9
Depth From:	0
Depth To:	8
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

16 ***1 of 1*** ***S/296.8*** ***81.8 / 1.05*** ***734 Bexhill Rd (off Lakeshore)<UNOFFICIAL>*** ***SPL***
Mississauga ON

Ref No:	8366-7JTL7U	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Intent - Intentional or planned occurrence	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	CEMENT SLURRY	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Mississauga
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/25/2008	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Error- Operator error	***Source Type:***	
Site Name:	734 Bexhill Rd (off Lakeshore)<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Dumping cement into a CB, Mississauga		
Contaminant Qty:			

17 ***1 of 4*** ***NW/298.6*** ***90.0 / 9.20*** ***Peel District School Board*** ***GEN***
930 Owenwood Drive
Mississauga ON L5H 3J2

Generator No:	ON9238500	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2009	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	611710		
SIC Description:	Educational Support Services		

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

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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17 ***2 of 4*** ***NW/298.6*** ***90.0 / 9.20*** ***Peel District School Board*** ***GEN***
930 Owenwood Drive
Mississauga ON L5H 3J2

Generator No: ON9503874 ***PO Box No:***
Status: ***Country:***
Approval Years: 07,08 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 419120
SIC Description: Petroleum Product Agents and Brokers

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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17 ***3 of 4*** ***NW/298.6*** ***90.0 / 9.20*** ***930 OWENWOOD DRIVE*** ***HINC***
MISSISSAUGA ON L5H 3J2

External File Num: FS INC 0809-05059
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 8/29/2008
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Institution (including hospital, school, govt building, etc.)
Service Interruptions: Yes
Property Damage: No
Fuel Life Cycle Stage: Utilization
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No 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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17 ***4 of 4*** ***NW/298.6*** ***90.0 / 9.20*** ***MISSISSAUGA HYDRO*** ***SPL***
930 OWENWOOD DRIVE, OWENWOOD SCHOOL PROPERTY TRANSFORMER
MISSISSAUGA CITY ON L5H 3J2

Ref No: 198356 ***Discharger Report:***
Site No: ***Material Group:***
Incident Dt: 4/14/2001 ***Health/Env Conseq:***
Year: ***Client Type:***
Incident Cause: OTHER CONTAINER LEAK ***Sector Type:***

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

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:**	21102
Nature of Impact:	Soil contamination	**Site Lot:**	
Receiving Medium:	Land	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	4/14/2001	**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:	MISSISSAUGA HYDRO: SMALL SPILL OF 8-20 L NON-PCB TRANSFORMER OIL TO GROUND		
Contaminant Qty:			

Unplottable Summary

Total: 21 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	MISSISSAUGA CITY	BEXHILL RD.	MISSISSAUGA CITY ON	
CA	G.L. BALL CLEARVIEW CREEK CANNELIZATION	LAKESHORE RD.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	LAKESHORE RD. TURTLE CREEK	MISSISSAUGA CITY ON	
CA	Lorne Park Water Treatment Plant	Lakeshore Rd. West	Mississauga ON	
CA	R.M. OF PEEL	PT.LOT 26/CON.3,BEXHILL SEW.PS	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	PT.LOT 26/CON.3,BEXHILL SEW.PS	MISSISSAUGA CITY ON	
CA	ONTARIO MINISTRY OF THE ENVIRONMENT	SOUTH PEEL WATER SYSTEM	MISSISSAUGA CITY ON	
CA	MINISTRY OF THE ENVIRONMENT-PROJ.5002048	SOUTH PEEL WATER SYSTEM	MISSISSAUGA CITY ON	
CA	CITY OF MISSISSAUGA	CLEARVIEW CREEK LAKESHORE RD.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	CONC. 3 & 4/WSS PUMPING STN.	MISSISSAUGA CITY ON	
CA	ONTARIO CLEAN WATER AGENCY	STREETSVILLE PUMPING STATION	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	BEXHILL RD. SEW. PUMP STATION	MISSISSAUGA CITY ON	
GEN	The Shores of Port Credit Inc.	Lakeshore Road West	Mississauga ON	L5H 0A4
HINC		NEAR PARKLAND AVENUE [AT JACK DARLING PARK]	MISSISSAUGA ON	
SCT	HUSKY FARM EQUIPMENT LIMITED	RR 2	ON	N0B 1A0
SPL		Lakeshore Road West	Mississauga ON	
SPL	TANK TRUCK	EAST ON HWY. 2 FROM THE CLARKSON WPCP TANK TRUCK (CARGO)	MISSISSAUGA CITY ON	

SPL	GREEN SPACE SERVICES(SEARS LAW	JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO)	MISSISSAUGA CITY ON
SPL		Credit River and Lakeshore Rd. CREDIT RIVER<UNOFFICIAL>	Mississauga ON
SPL	York Disposal Services Limited	Lakeshore Road West CORNER OF LAKESHORE RD. AND LORNE PARK DR., MISSISSAUGA, ON<UNOFFICIAL>	Mississauga ON
WWIS		con 3	ON

Unplottable Report

Site: ***MISSISSAUGA CITY***
BEXHILL RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1411-86-
Application Year: 86
Issue Date: 9/26/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***G.L. BALL CLEARVIEW CREEK CANNELIZATION***
LAKESHORE RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1828-88-
Application Year: 88
Issue Date: 9/28/1988
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MISSISSAUGA CITY***
LAKESHORE RD. TURTLE CREEK MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1566-87-
Application Year: 87
Issue Date: 9/4/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Lorne Park Water Treatment Plant***
Lakeshore Rd. West Mississauga ON

Database: ***CA***

Certificate #: 0370-4GEQMA

Application Year: 00
Issue Date: 2/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Removal of existing anthracite and a portion of the sand media from the existing filters 1-8 at the Lorne Park water Treatment Plant and replacement with new sand Granular Activated Carbon (GAC) filter media.
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
PT.LOT 26/CON.3,BEXHILL SEW.PS MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1536-94-
Application Year: 94
Issue Date: 11/24/1994
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
PT.LOT 26/CON.3,BEXHILL SEW.PS MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1536-94-006
Application Year: 94
Issue Date: 12/8/94
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ONTARIO MINISTRY OF THE ENVIRONMENT***
SOUTH PEEL WATER SYSTEM MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-1190-88-
Application Year: 88
Issue Date: 9/27/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MINISTRY OF THE ENVIRONMENT-PROJ.5002048***
SOUTH PEEL WATER SYSTEM MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0207-91-
Application Year: 91
Issue Date: 8/14/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***CITY OF MISSISSAUGA***
CLEARVIEW CREEK LAKESHORE RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1542-88-
Application Year: 88
Issue Date: 10/21/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
CONC. 3 & 4/WSS PUMPING STN. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1014-95-
Application Year: 95
Issue Date: 8/10/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ONTARIO CLEAN WATER AGENCY***
STREETSVILLE PUMPING STATION MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0921-95-006
Application Year: 95
Issue Date: 11/3/95
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
BEXHILL RD. SEW. PUMP STATION MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 8-3604-94-
Application Year: 94
Issue Date: 2/24/1995
Approval Type: Industrial air
Status: Approved in 1995
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: REDUCE NOISE FROM EXIST. DIESEL GEN-SET
Contaminants:
Emission Control:

Site: ***The Shores of Port Credit Inc.***
Lakeshore Road West Mississauga ON L5H 0A4

Database: ***GEN***

Generator No: ON9951141
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: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Site:
NEAR PARKLAND AVENUE [AT JACK DARLING PARK] MISSISSAUGA ON

Database: ***HINC***

External File Num: FS INC 0901-00412
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 1/21/2009
Fuel Type Involved: Fuel Oil
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:Yes
Reported Details: Enbridge Pipeline Right-of-Way, unauthorized crossing and excavation.
Fuel Category: Gaseous Fuel
Occurrence Type: Near-miss
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:

Site: ***HUSKY FARM EQUIPMENT LIMITED***
RR 2 ON N0B 1A0

Database: ***SCT***

Established: 1960
Plant Size (ft²): 0
Employment: 33

--Details--
Description: FARM MACHINERY & EQUIPMENT
SIC/NAICS Code: 3523

Description: PUMPS & PUMPING EQUIPMENT
SIC/NAICS Code: 3561

Site:
Lakeshore Road West Mississauga ON

Database: ***SPL***

Ref No:	3281-7AVJ8A	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Unknown	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	Mississauga
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	NA
MOE Response:	No Field Response	***Easting:***	NA
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	1/15/2008	***Site Map Datum:***	
Dt Document Closed:	4/10/2008	***SAC Action Class:***	Pollution Incident Reports (PIRs) and ¿Other¿ calls
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	Lakeshore Road West		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Sheridan Creek ¿ bright yellow colour		
Contaminant Qty:	other - see incident description		

Site: ***TANK TRUCK***
EAST ON HWY. 2 FROM THE CLARKSON WPCP TANK TRUCK (CARGO) MISSISSAUGA CITY ON

Database: ***SPL***

Ref No:	114734	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/21/1995	***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:	POSSIBLE	***Site Municipality:***	21102
Nature of Impact:	Other	***Site Lot:***	

Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	PEEL REGION
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/21/1995	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TANK TRUCK (N.O.S.)-45 L OF SEWAGE SLUDGE TO ROAD FROM TANKER TRUCK.		
Contaminant Qty:			

Site: ***GREEN SPACE SERVICES(SEARS LAW JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO) MISSISSAUGA CITY ON***

Database: ***SPL***

Ref No:	230431	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/2/2002	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	UNKNOWN	***Sector Type:***	
Incident Event:		***Agency Involved:***	WORKS
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:***	21102
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/2/2002	***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:	GREEN SPACE-30 L KILLEX TOL LOT,REGION RESPONDED.		
Contaminant Qty:			

Site: ***Credit River and Lakeshore Rd. CREDIT RIVER<UNOFFICIAL> Mississauga ON***

Database: ***SPL***

Ref No:	6083-6Q8LGC	***Discharger Report:***	
Site No:		***Material Group:***	Wastes
Incident Dt:	5/28/2006	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Discharges	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	44	***Nearest Watercourse:***	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	***Site Address:***	CREDIT RIVER AND LAKESHORE RD.
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	Mississauga
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/28/2006	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	CREDIT RIVER AND LAKESHORE RD.		

Site County/District:
Site Geo Ref Meth:
Incident Summary: Spill of sewage to the Credit River.
Contaminant Qty: Not Specific Unknown

Site: ***York Disposal Services Limited*** ***Database:*** ***SPL***
Lakeshore Road West CORNER OF LAKESHORE RD. AND LORNE PARK DR., MISSISSAUGA, ON<UNOFFICIAL>
Mississauga ON

Ref No:	3737-6T9HXU	***Discharger Report:***	
Site No:		***Material Group:***	Oils
Incident Dt:	9/2/2006	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Other Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Mississauga
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	NA
MOE Response:		***Easting:***	NA
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/2/2006	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	Equipment/Vehicles	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: Garbage truck rollover- 15 gals of hydraulic oil to grnd.
Contaminant Qty: 66 L

Site: ***Database:*** ***WWIS***
con 3 ON

Well ID:	4909140	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:		***Date Received:***	5/26/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	
Water Type:		***Contractor:***	7147
Casing Material:		***Form Version:***	1
Audit No:	251350	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	MISSISSAUGA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	DS S
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:	10540575	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	_	***East83:***	

Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 5/1/2003
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: A
Method Construction: Digging
Other Method Construction:

Pipe Information

Pipe ID: 11089145
Casing No: 1
Comment:
Alt Name:

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 2018

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-Jul 31, 2019

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

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; 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: 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-Jul 31, 2019

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 - Jun 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-Jul 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-Aug 31, 2019

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 - Oct 2018

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-Aug 31, 2019

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-Aug 31, 2019

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-Aug 31, 2019

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-Jul 31, 2019

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 TSSA Expired Facilities: Provincial EXP

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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-May 2019

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 made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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-Jul 31, 2019

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*

TSSA Incidents: Provincial INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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 2019

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, 2017

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-Jun 30, 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-Aug 31, 2019

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-Mar 2019

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), 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 pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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-Aug 31, 2019

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-Jul 2019

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-Jul 31, 2019

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-Feb 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

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all 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. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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-Aug 31, 2019

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 B

Aerial and Satellite Images

2018

Reference:

Google Earth

2009

Reference:

Google Earth

2004

Reference:

Google Earth

Appendix C

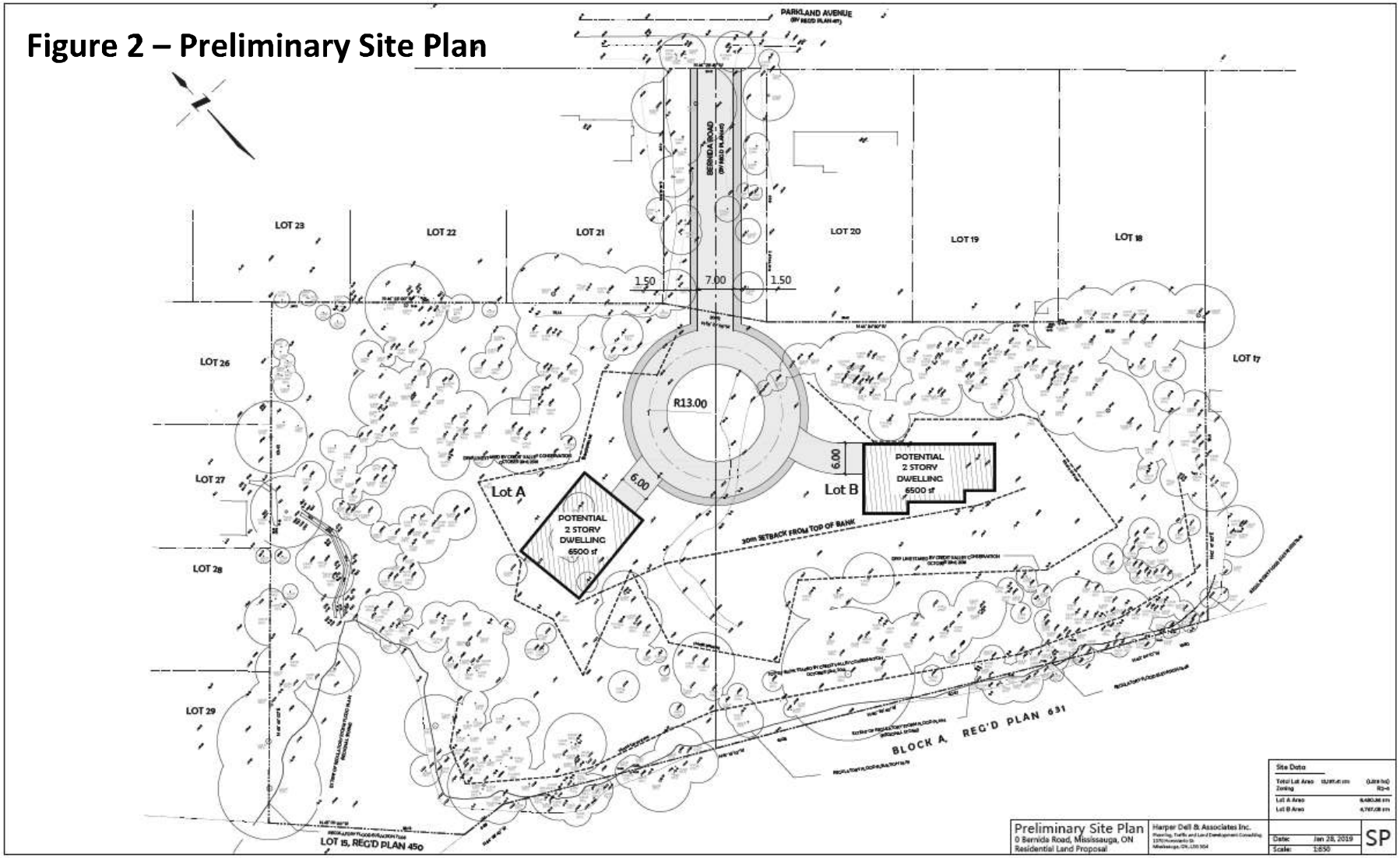
Figures

Figure 1 **Location Map**

References:

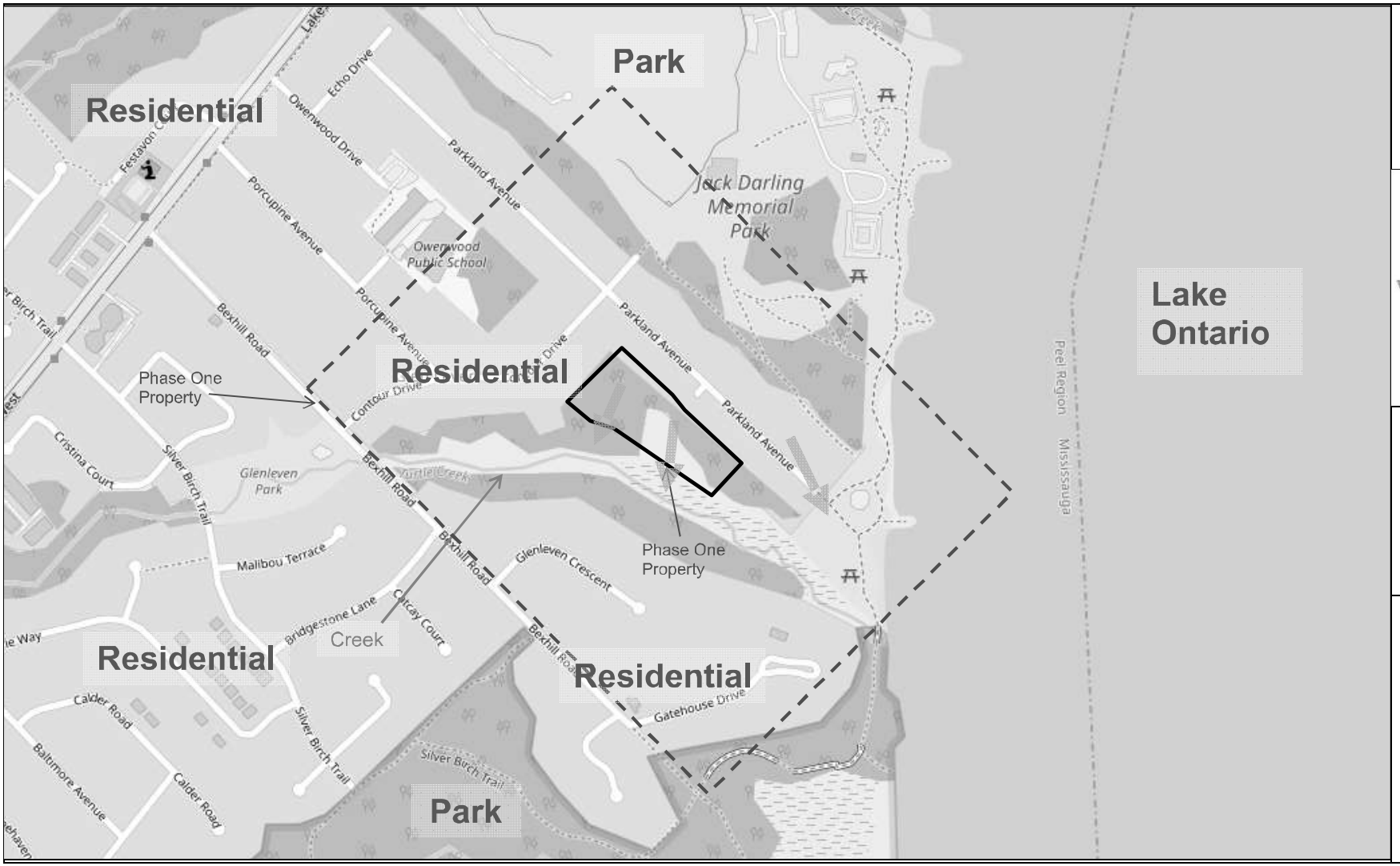
Open Street Map

Figure 2 – Preliminary Site Plan



Appendix D

Conceptual Site Model



BEN ENGINEERING
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www.ben-engineering.com

N
W E
S

File No: 884260101901

Record of Site Condition
Phase One ESA

Conceptual Site Model

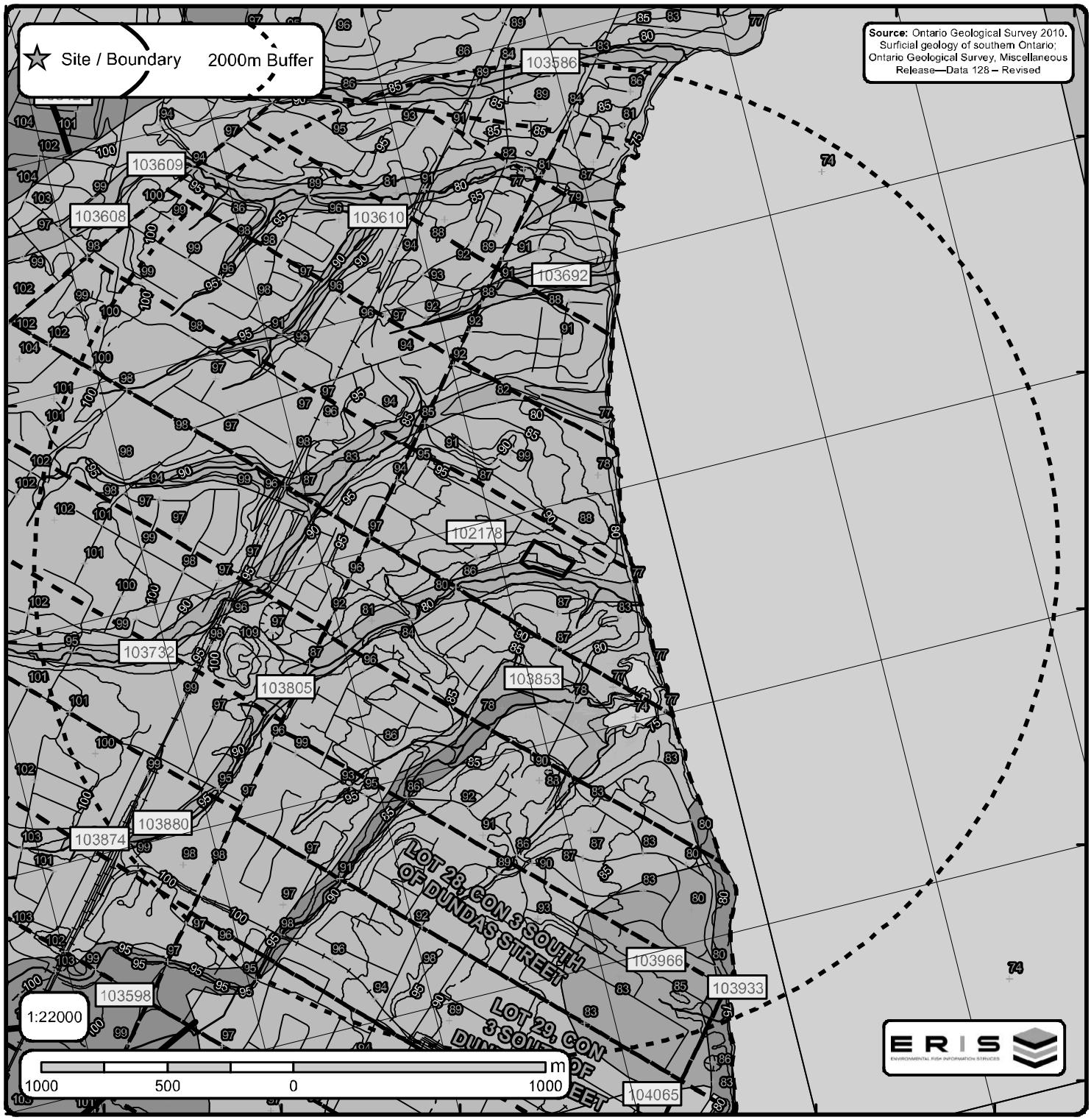
0 Bernida Road
Mississauga, Ontario

BLK A PL 417 TORONTO; MISSISSAUGA

PIN 134880808

Appendix E

Maps



The Surficial Geology of Southern Ontario

Order No. 20191010176

Spot Height	Streams	Dune	Beach	Esker	karst	pitsg
Waterbody	Contour Lines	Lake	Bluff	Esker ND	linfeat	popup
Wetlands	Roads	Rib	Crevasse	Fluvial DL	megarip	ribl
Airports	Railroads	Scab	Crest	fluvndl	mfluvdl	slidel
Pit or Quarry	Morains	Slide	End	iceberg	mfluvndl	slumpb
Lots		NOF Dune	Escarpment	icslope	moraine	terrace

Surface Geology Report

Surface Geology units found within 2000 m of Bernida Road

Order No. 20191010176

ID: 102178 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 12 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** stony, silty | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravelly Sand And Silty Sand

ID: 103586 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103598 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 103610 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103692 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103732 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103805 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103853 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103874 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103880 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 103933 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 103966 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt And Clay, May Contain Poorly Sorted Diamicton Layers

Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier- This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

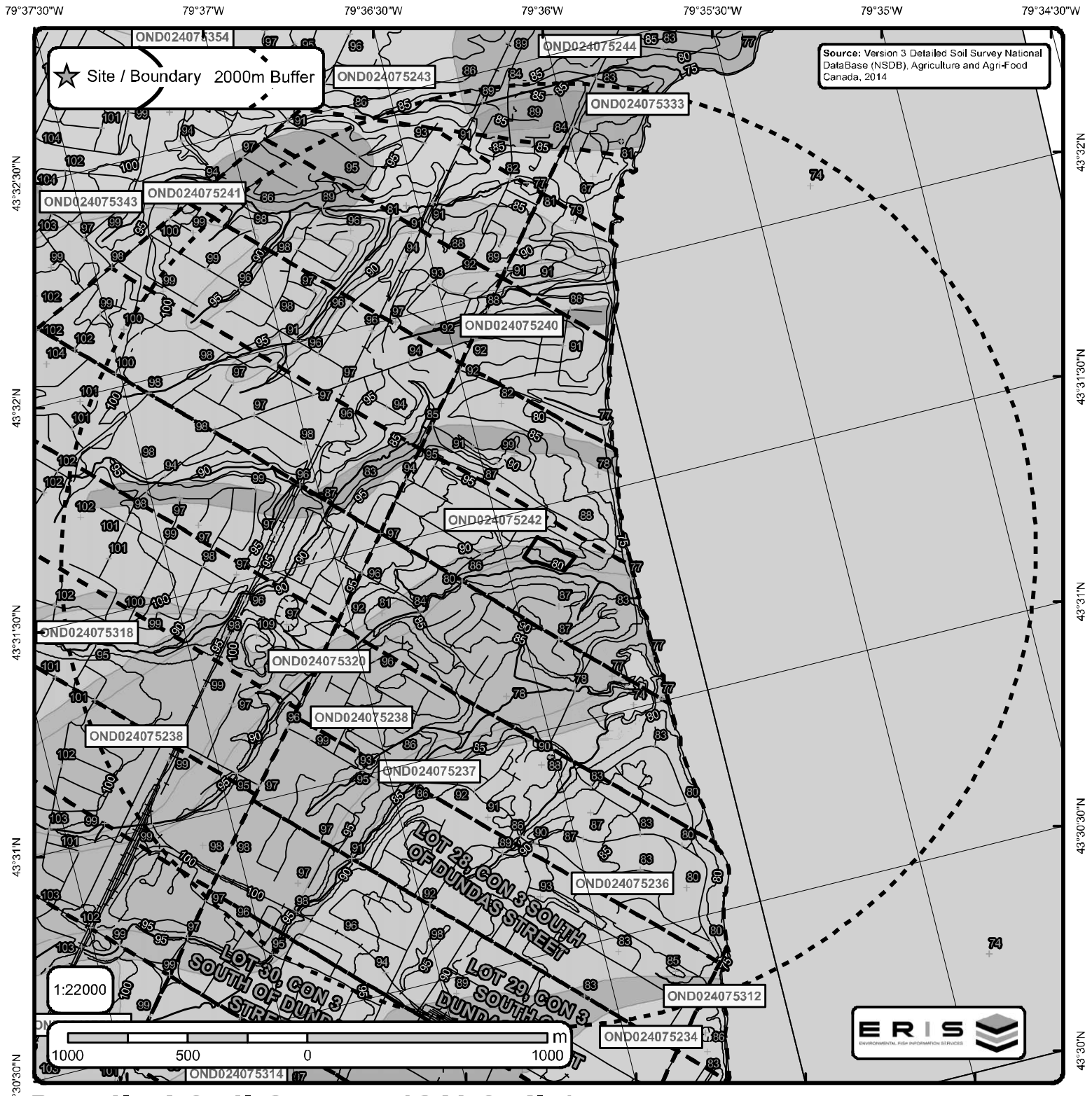
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



Detailed Soil Survey (ON Soils)

Order No. 20191010176

- Spot Height
- Railroads
- Roads
- Contour Lines
- Streams
- Lots
- Pit or Quarry
- Airports
- Wetlands
- Waterbody

Soils Report

Soil Map Units Found within 2000 m of Bernida Road

Order No. 20191010176

Soil ID: OND024075243

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFOX~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-30 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 24 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.398 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 30-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 25 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.173 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 45-56 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 82 | **Total Silt(%)** : 9 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.535 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 56-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.404 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075334

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075333

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075331
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONCGU~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 21 | **Total Silt(%)** : 50 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.368 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 27-40 | **Horizon** : Btgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 21 | **Total Silt(%)** : 43 | **Total Clay(%)** : 36 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.228 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 40-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 20 | **Total Silt(%)** : 49 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.159 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075241
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075240
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075242
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFOX~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-30 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 24 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.398 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 30-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 25 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.173 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 45-56 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 82 | **Total Silt(%)** : 9 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.535 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 56-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.404 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075236
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBAY~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 61 | **Total Silt(%)** : 27 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.143 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-28 | **Horizon** : Aegj | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 63 | **Total Silt(%)** : 23 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.547 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 28-41 | **Horizon** : Btjg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 65 | **Total Silt(%)** : 20 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 1.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.3 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 41-100 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 62 | **Total Silt(%)** : 25 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.427 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075237
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075234
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBAY~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 61 | **Total Silt(%)** : 27 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.143 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-28 | **Horizon** : Aegj | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 63 | **Total Silt(%)** : 23 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.547 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 28-41 | **Horizon** : Btjg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 65 | **Total Silt(%)** : 20 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 1.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.3 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 41-100 | **Horizon** : Ckgj | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 62 | **Total Silt(%)** : 25 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.427 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075235
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBRR~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 68 | **Total Silt(%)** : 20 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 2.463 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 27-37 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 84 | **Total Silt(%)** : 11 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.552 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 37-44 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 82 | **Total Silt(%)** : 13 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 5.501 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 44-60 | **Horizon** : Btgj | **Layer No** : 4 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 27 | **Total Silt(%)** : 37 | **Total Clay(%)** : 36 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.245 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 60-85 | **Horizon** : Bt | **Layer No** : 5 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 13 | **Total Silt(%)** : 48 | **Total Clay(%)** : 39 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.212 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 85-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 6 | **Total Silt(%)** : 63 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.137 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075244
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONCGU~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 21 | **Total Silt(%)** : 50 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.368 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 27-40 | **Horizon** : Btgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 21 | **Total Silt(%)** : 43 | **Total Clay(%)** : 36 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.228 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 40-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 20 | **Total Silt(%)** : 49 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.159 | **Electrical Conductivity(dS/m)** : 0 |

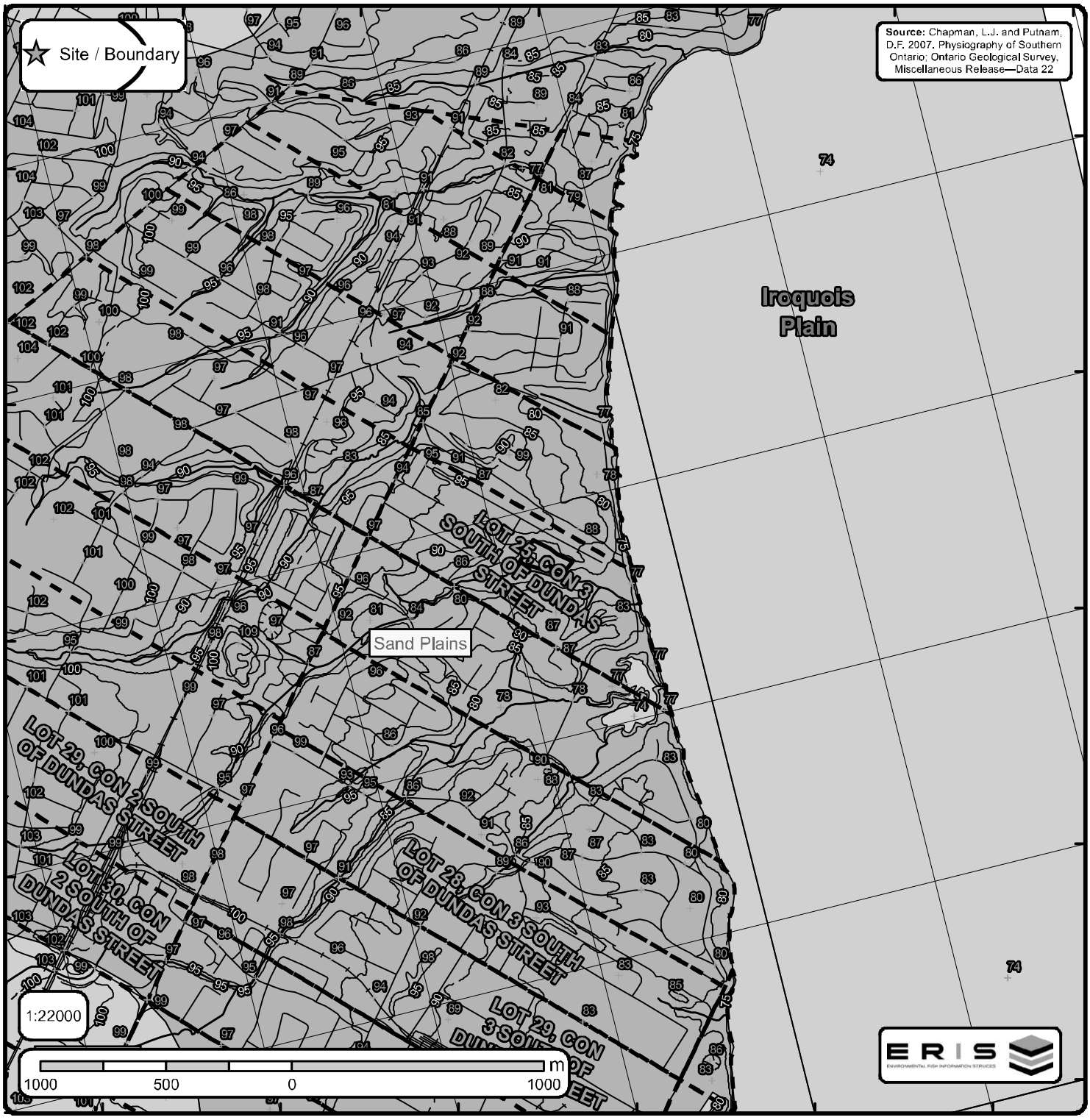
Soil ID: OND024075318
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFOX~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-30 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 24 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.398 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 30-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 25 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.173 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 45-56 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 82 | **Total Silt(%)** : 9 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.535 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 56-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.404 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075320
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075239
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND024075238
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFOX~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-30 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 24 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.398 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 30-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 64 | **Total Silt(%)** : 25 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 2.173 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 45-56 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 82 | **Total Silt(%)** : 9 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.535 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 56-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.404 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND024075312
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Subject to occasional flooding (Inundation) from adjacent streams or waterbodies | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Physiography of Southern Ontario

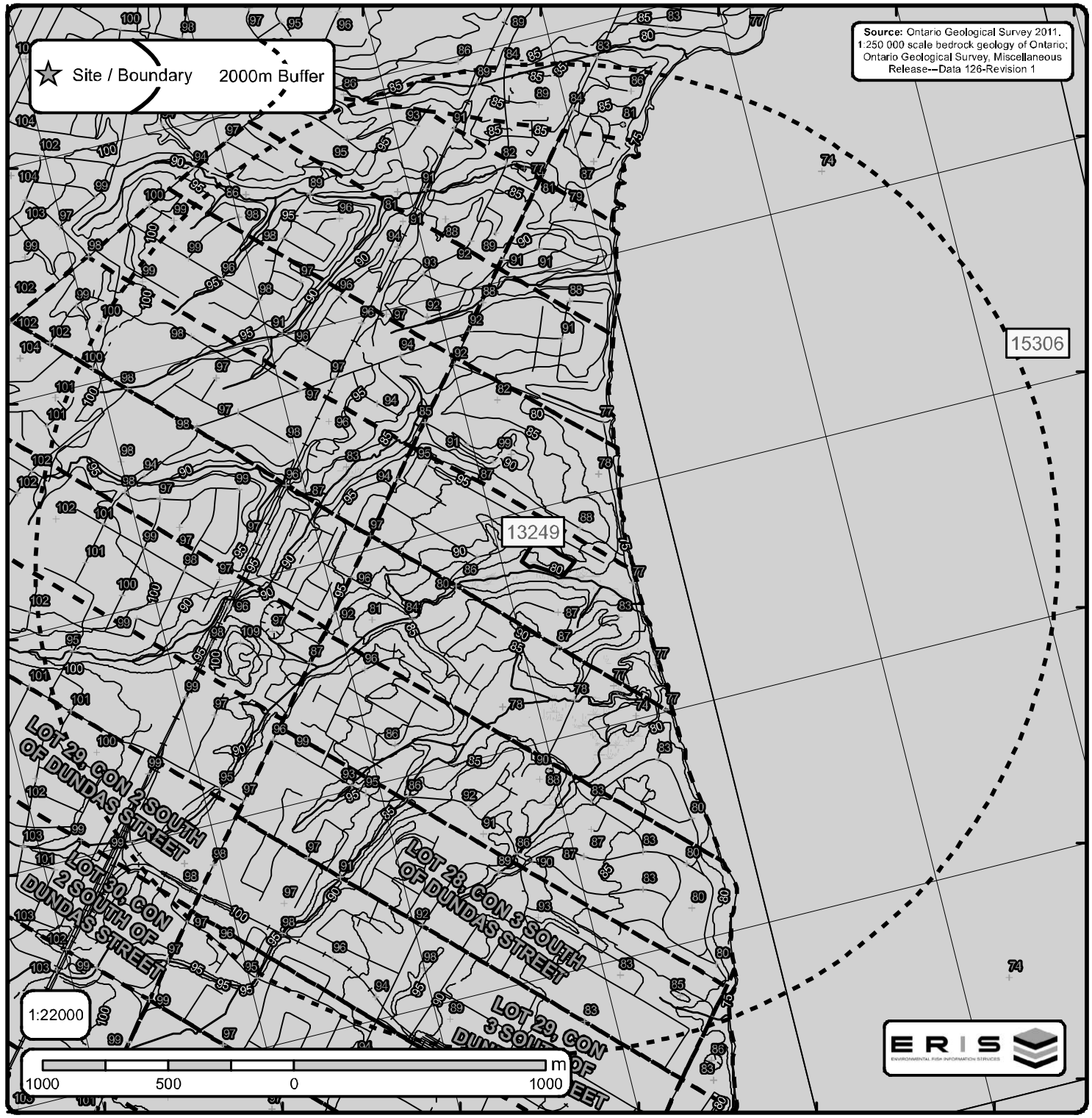
Order No. 20191010176

- Spot Height
- Roads
- Railroads
- Contour Lines
- Streams
- Lots
- Pit or Quarry
- Airports
- Wetlands
- Waterbody
- Boulder Pavement
- Dissected Terrain
- Mud Flow Scars
- Sand Dunes
- escarpment
- shorecliff
- shorecliff (weakly developed)
- Physiography Regions
- Bare Rock Ridges And Shallow Till
- Beaches
- Bevelled Till Plains
- Clay Plains
- Drumlins
- Escarpments
- Eskers
- Kame Moraines
- Limestone Plains
- Peat And Muck
- Sand Plains
- Shale Plains
- Shallow Till And Rock Ridges
- Spillways
- Till Moraines
- Till Plains (Drumlinized)
- Till Plains (Undrumlinized)

Ontario Base Mapping (OBM) Data

Order No. 20191010176

Spot Height (metre)	Transportation Structure	Contour Line	Wooded Area
Building Point	Utility Line	Pit or Quarry	Conservation Authority
Towers	Water Structure	Waterbody	Conservation Area
Utility Site Point	Drainage Line Feature	Wetlands	Municipal Park
Misc. Line	River or Stream	Concession	Provincial Park
Railroads	Airports	Lots	National Park
Roads	Tanks	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	



Bedrock Geology of Ontario

Order No. 20191010176

Spot Height
Roads
Contour Lines
Streams
Railroads
Lots
Pit or Quarry
Airports
Waterbody
Wetlands

Bedrock Geology Lines

- CONTACT, GEOPHYSICAL TREND, INTERPRETED
- CONTACT, SHARP, TREND, INTERPRETED
- CONTACT, SHARP, TREND, OBSERVED
- FAULT, OBLIQUE HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- NEATLINE
- ONTARIO BORDER
- Marble, chert, iron formation, minor metavolcanic rocks

Dikes

- Abitibi mafic dike
- Biscotasing mafic dike
- Empey Lake mafic dike
- Felsic to intermediate intrusive rocks
- Fort Frances mafic dike
- Frontenac mafic dike
- Grenville mafic dike
- Logan and Nipigon mafic sills
- Mackenzie mafic dike
- Mafic dikes of uncertain age
- Mafic sills and dikes
- Marathon mafic dike
- Marathon, Kapuskasing or Biscotasing mafic dike
- Matachewan mafic dike
- Mine Centre mafic dike
- Molson mafic dike
- North Channel mafic dike
- Pickle Crow mafic dike (Molson swarm) normal
- Pickle Crow mafic dike (Molson swarm) reverse
- Rideau mafic dike
- Sudbury mafic dike
- Ultramafic, gabbroic and granophyric intrusions
- Unsubdivided mafic dike
- Unsubdivided mafic dike (Keweenawan age)
- Unknown

C Lines

- FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION
- FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION

Kimberlite

Bedrock Geology Report

Bedrock Geology units found within 2000 m of Bernida Road

Order No. 20191010176

ID: 13249 | **Unit Name:** |
Type (All): 55b | **Type (Primary):** 55b | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Shale, limestone, dolostone, siltstone | **Strata (Primary):** Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member; Eastview Member | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** UPPER ORDOVICIAN | **Province (Primary):**

ID: 15306 | **Unit Name:** |
Type (All): LIMIT | **Type (Primary):** LIMIT | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** | **Strata (Primary):** | **Super Eon (Primary):** | **Eon (Primary):** | **Era (Primary):** | **Period (Primary):** | **Epoch (Primary):** | **Province (Primary):**

Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126 Revision1

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)
MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOZOIC (251.0 Ma to 542.0 Ma)
MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

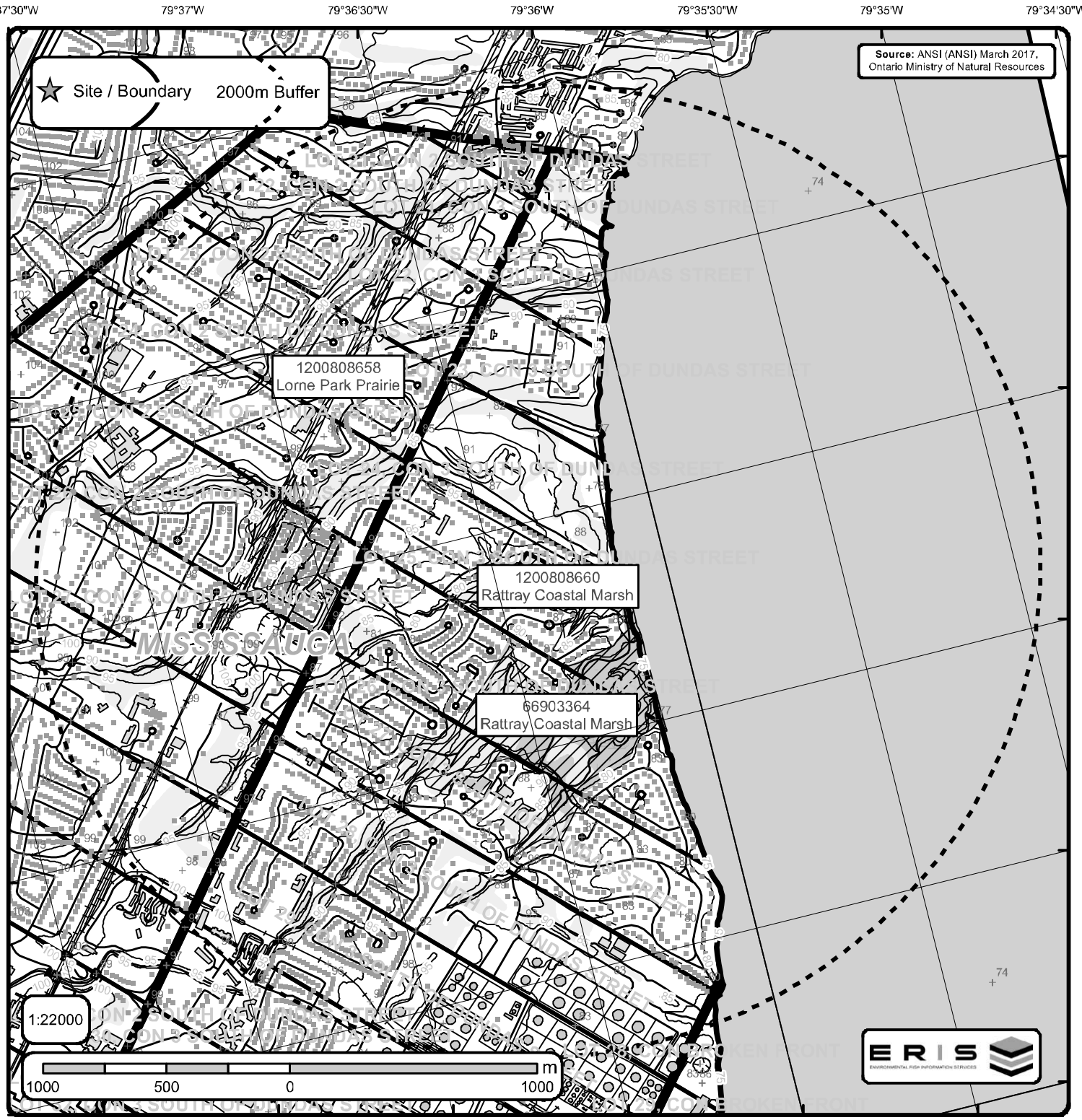
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN
MIDDLE ORDOVICIAN
UPPER ORDOVICIAN
MIDDLE AND LOWER SILURIAN
UPPER SILURIAN TO LOWER DEVONIAN
UPPER SILURIAN
LOWER DEVONIAN
MIDDLE DEVONIAN
UPPER DEVONIAN
LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE



Area of Natural & Scientific Interest (ANSI) Order No. 20191010176

Spot Height	Transportation Structure	Contour Line	Wooded Area
Building Point	Utility Line	Pit or Quarry	Conservation Authority
Towers	Water Structure	Waterbody	Conservation Area
Utility Site Point	Drainage Line Feature	Wetlands	Municipal Park
Misc. Line	River or Stream	Concession	Provincial Park
Railroads	Airports	Lots	National Park
Roads	Tanks	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	ANSI Area

ANSI Report

ANSI Units Found within 2000 m of Bernida Road

Order No. 20191010176

ANSI Name: Lorne Park Prairie
ID: 1200808658 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** Yes | **Area (sqm):** 197376.451 | **Comments:** Information not available at insertion stage.

ANSI Name: Rattray Coastal Marsh
ID: 66903364 | **Type:** ANSI, Life Science | **Significance:** Provincial | **Management Plan:** Yes | **Area (sqm):** 423198.154 | **Comments:** Information not available at insertion stage.

ANSI Name: Rattray Coastal Marsh
ID: 1200808660 | **Type:** Candidate ANSI, Life Science | **Significance:** Provincial | **Management Plan:** Yes | **Area (sqm):** 93310.371 | **Comments:** Information not available at insertion stage.