



**2350048 ONTARIO LTD.**

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**644 Garrison Road, Fort Erie, Ontario**

**FINAL REPORT**

**November 28, 2017**

**Terrapex Environmental Ltd.**

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## EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by 2350048 Ontario Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 644 Garrison Road, in Fort Erie, Ontario (the site). The site is located on the north side of Garrison Road and is approximately 90 m east of Thompson Road.

The objective of the investigation was to identify actual and potential sources of soil or groundwater contamination arising from current and/or historical activities on the site and neighbouring properties. It is understood that the study is being undertaken by 2350048 Ontario Ltd. for property acquisition and financing purposes.

The Phase I ESA was conducted in accordance with the principles set out in Canadian Standards Association (CSA) Standard Z768-01, *Phase I Environmental Site Assessment*.

The site is rectangular, comprising an area of approximately 2.58 ha, and is currently a vacant lot with no buildings on-site. The majority of the eastern portion of the site is grass-covered and the western portion is generally surficial sand and gravel fill material with small patches of asphalt. The site is bounded by residential dwellings to the north, commercial properties to the east, Garrison Road to the south, and a commercial plaza to the west.

Based on the information obtained during this investigation, potential sources of impact to the environmental quality of soil or groundwater at the site potentially originating from the historic use of the site as a trucking yard and maintenance facility, were identified as follows:

- possible leaks and spills in the former change pit from vehicle maintenance;
- minor spills or leaks of oils or similar fluids within the former automobile service area; and,
- possible leaks or spills from the former USTs and fuel dispensers.

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## 1.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by 2350048 Ontario Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 644 Garrison Road in Fort Erie, Ontario (the site). The site is legally described as Lot 224 PI 453 Bertie; Part of Lot 1 Concession 2; Niagara River Bertie As In Ro772307; S/t Execution 95-01586, If Enforceable; Fort Erie. It is located on the north side of Garrison Road and approximately 90 m east of Thompson Road (Figure 1).

The site is rectangular, comprising an area of approximately 2.58 ha, and is currently vacant, with no buildings on the site. The majority of the eastern portion of the site is grass-covered and the western portion is generally surficial sand and gravel fill material with small patches of asphalt. The site is bounded by residential dwellings to the north, commercial properties to the east, Garrison Road to the south, and a commercial plaza to the west. It is understood that the study is being undertaken by 2350048 Ontario Ltd. for property acquisition and financing purposes. The general site layout is shown on Figure 2.

### 1.1 OBJECTIVE

The objective of the project was to identify actual and/or potential sources of environmental liability at the site associated with current and/or historical activities on the site and neighbouring properties.

### 1.2 SCOPE OF WORK

The Phase I ESA was conducted in accordance with the principles set out in Canadian Standards Association (CSA) Standard Z768-01, *Phase I Environmental Site Assessment*.

The scope of work of the Phase I ESA comprised:

- a review of available historic and current environmental information relating to the site and/or the general vicinity of the site;
- an inspection of the site, and accessible neighbouring sites for evidence of potential environmental concerns;
- interviews with persons knowledgeable of site conditions and operations; and,
- preparation of this report documenting the findings.

## 2.0 WORK PROGRAM

### 2.1 RECORDS REVIEW

The following sources of information were searched and/or reviewed as part of the records review:

- A review of aerial photographs for the years 1934, 1965, 1973, and 1988 obtained from the National Air Photo Library (NAPL), as well as two satellite images from the Google Earth website for the years 2002, 2006, and 2016;
- Maps for the site and surrounding areas, as follows:
  - Topographic map: Natural Resource Canada, 2013, information current as of 2013 (1:50,000);
  - Ministry of Natural Resources (MNR), 2010, Ontario Base Map (OBM, 1:22,000) of Fort Erie, Ontario (obtained from EcoLog ERIS);
  - Ministry of Natural Resources (MNR), 2017, ANSI (1:22,000) of Fort Erie, Ontario (obtained from EcoLog ERIS);
  - VuMap mapping application provided by First Base Solutions (copyright 2013);
  - *Quaternary Geology of Ontario, Southern Sheet, Map 2556*, Ministry of Northern Development and Mines, 1991;
  - *Bedrock Geology of Ontario, Southern Sheet, Map 2544*, Ministry of Northern Development and Mines, 1991;
  - *The Physiography of Southern Ontario*, Chapman and Putnam, Ontario Research Foundation, 1966;
- Federal and Provincial Government and additional private database records, available through EcoLog ERIS Ltd., for locations within 250 m from the boundary of the site (a full list of databases searched is included in the EcoLog ERIS Ltd. report in Appendix III);
- Vernon's Welland, Port Colborne, & Fort Erie City Directory (obtained from EcoLog ERIS);
- Additional government databases including:
  - *Access Environment*, Ministry of the Environment (MOE) for Environmental Compliance Approvals (ECAs), previously referenced as Certificates of Approval (CofAs);
  - *Inventory of Coal Gasification Plant Waste Sites in Ontario*, MOE Waste Management Branch, July, 1987 for records within approximately 1 km of the subject site;
  - *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario*, MOE, November 1988 for records within approximately 1 km of the subject site;

- *Waste Disposal Site Inventory*, MOE Waste Management Branch, June 1991, for active and closed facilities within approximately 1 km of the site;
- *Brownfields Environmental Site Registry*, MOE;
- Requests for file information from:
  - MOE Freedom of Information (FOI) Office regarding environmental concerns, such as waste generator registration numbers and waste class codes assigned to the site, Certificates of Approval, spill notifications, violations, complaints, or control orders;
  - Town of Fort Erie regarding documented environmental concerns, waste disposal sites, sewer use by-law infraction or chemical spills;
  - MNR regarding environmental sensitive areas in the general vicinity of the site; and,
  - The Technical Standards and Safety Authority (TSSA) Fuels Safety Branch for information pertaining to fuel storage tanks.

## **2.2 SITE INSPECTION**

The site inspection was conducted by Mr. Siratha Chhan of Terrapex on October 4, 2017, using Terrapex's standard Phase I ESA checklist.

The subject site and accessible neighbouring sites were inspected for evidence of potential environmental concerns such as regulated substances, former and existing underground and aboveground storage tanks (USTs and ASTs), miscellaneous wastes and debris, hazardous materials, infilled areas, surface staining and stressed vegetation.

## **2.3 INTERVIEWS**

An interview was not completed as Terrapex was unable to contact anybody with pertinent historical information on the Site.

## **2.4 LIMITATIONS**

It should be noted that although Terrapex has attempted to verify information wherever possible, except where explicitly noted we have relied upon the accuracy of information collected during the records review and interview process. As of the date of this report, responses to requests for information from the Town of Fort Erie have yet to be received. Please refer to Section 3.1.5 for details regarding these information searches.

All areas of the site were accessible during the site inspection. Observations of surrounding properties were limited to areas visible from the site or from publicly accessible vantage points.

### 3.0 RESULTS AND DISCUSSION

#### 3.1 RECORDS REVIEW

##### 3.1.1 AERIAL PHOTOGRAPHS

Aerial photographs for the years 1934, 1965, 1973, and 1988 were ordered from EcoLog ERIS, and two satellite images were obtained from VuMAP First Base Solutions for the years 2002 and 2016, to identify changes to topographic features, as well as development of the site and surrounding properties within the Phase I study area over the years.

The relevant features identified in the aerial photographs and satellite images are summarized in Table 1, below. It should be noted that identification of some specific features at the site and surrounding areas was precluded by the scale and resolution of the aerial photographs.

**TABLE 1: SUMMARY OF AERIAL PHOTOGRAPHS AND SATELLITE IMAGES**

Year	Source	Key Features - Site	Key Features - Surroundings
1934	National Air Photo Library	<ul style="list-style-type: none"> <li>- The site appears to be undeveloped, agricultural land.</li> <li>- The eastern side of the property is wooded.</li> </ul>	<ul style="list-style-type: none"> <li>- Garrison Road and Thompson Road are visible.</li> <li>- Surrounding areas are generally agricultural.</li> <li>- A wooded area is present adjacent to the north.</li> <li>- Appears to be residential farming properties along Garrison Road.</li> <li>- Queen Elizabeth Way (QEW) Highway not yet constructed.</li> </ul>
1965	National Air Photo Library	<ul style="list-style-type: none"> <li>- The site appears to be developed with a commercial building.</li> <li>- There are unidentifiable structures along the eastern side of the site.</li> </ul>	<ul style="list-style-type: none"> <li>- The surrounding area is generally similar to 1930 but appears to be more dense residential and commercial development along Garrison Road.</li> <li>- QEW highway is clearly visible.</li> </ul>
1973	National Air Photo Library	<ul style="list-style-type: none"> <li>- The site appears similar to the 1965 aerial photo.</li> <li>- The site appears to be developed with a parking lot.</li> </ul>	<ul style="list-style-type: none"> <li>- The surrounding area appears similar to the 1965 aerial photo but with more residential development adjacent to the north.</li> </ul>
1988	National Air Photo Library	<ul style="list-style-type: none"> <li>- The site appears similar to the 1973 aerial photo.</li> <li>- The structures along the east side are no longer present.</li> </ul>	<ul style="list-style-type: none"> <li>- The surrounding area appears similar to the 1973 aerial photo.</li> </ul>
2002	VuMAP	<ul style="list-style-type: none"> <li>- A building is clearly visible with asphalt parking on the west side of the property.</li> <li>- The wooded area on the east side is still present.</li> </ul>	<ul style="list-style-type: none"> <li>- Denser residential development is visible to the north.</li> <li>- Denser commercial properties are visible along Garrison Road.</li> </ul>
2006	VuMAP	<ul style="list-style-type: none"> <li>- The site building is no longer present.</li> </ul>	<ul style="list-style-type: none"> <li>- The commercial properties to the north have expanded, and a residential development is visible northwest of the site.</li> </ul>



Year	Source	Key Features - Site	Key Features - Surroundings
		<ul style="list-style-type: none"> <li>- The wooded area on the east side of the property is no longer present, although the east and north property boundary is still tree-lined.</li> </ul>	<ul style="list-style-type: none"> <li>- The surrounding area appears similar to the 2002 aerial photo.</li> <li>- The property west of Thompson Road has now been developed with commercial businesses.</li> </ul>
2016	Vumap	<ul style="list-style-type: none"> <li>- The site appears similar to the 2006 aerial photo.</li> <li>- The tree line along the north and east property boundary have been cut back to the property line.</li> </ul>	<ul style="list-style-type: none"> <li>- The surrounding area appears similar to the 2006 aerial photo.</li> </ul>

The aerial photographs and satellite images are included in Appendix I.

### 3.1.2 PHYSIOGRAPHIC AND HYDROGEOLOGIC RECORDS

**Topographic Mapping:** According to contour information obtained from the VuMap interactive mapping application, the subject property appears to have an overall slope down to the south. On a more regional scale, topography generally slopes southeast towards the Niagara River. The elevation of the subject property ranges from 190 m to 192 m above mean sea level.

The closest mapped water body is the Niagara River, which is located approximately 1.78 km to the east of the closest site boundary.

The general regional groundwater flow is assumed to be east towards the Niagara River. However, it should be recognized that the local groundwater flow may vary from the regional flow (topography suggests that the general direction of groundwater flow in the immediate vicinity of the site may be south), and may also be influenced by local subsurface structures and utilities.

Copies of the topographic map and OBM are provided in Appendix II.

**Geologic Mapping:** The site is located in an area known as Halton Till. Halton Till is characterized by predominately silt to silty clay matrix, high in matrix, carbonate content and clast poor. Bedrock geology consists of Middle Devonian limestone, dolostone and shale of the Detroit River Group and Onondaga formation. The site is located in a physiographic region known as the Clay Plain. The Clay Plain includes predominantly silt to silty clay matrix.

**Water Well Records:** Water well records were searched as part of the EcoLog ERIS Ltd. activity. Two mapped water well records were identified in the ERIS report for off-site properties. One record was identified approximately 133 north northwest of the Site, as a domestic water well supply from 1955. The stratigraphy was generally clay, and bedrock was encountered at 14 feet and extended to a minimum of 43 feet, the depth of the well.

One record was identified approximately 195 m north northwest of the site as a Test hole from 2009.

The water well information from the EcoLog ERIS Ltd. report is included in Appendix IV.

### **3.1.3 PROPERTY USE RECORDS**

**Title Search:** A complete chain of title search was not deemed necessary, as it is unlikely to provide any additional information of use for the Phase I ESA.

**City Directories:** Municipal directories for the subject site and adjoining properties were searched at approximately six-year intervals by EcoLog ERIS for the years from 1965 to 2011. The City Directory shows that development at the site and surrounding properties started prior to 1973 but not before 1965. No businesses were noted in the 1965 listings. The 1973 listing shows Wallace Transport Company Ltd. occupied the site and Randall's Family Restaurant, Autotelic Ind Ltd Pen Research & Developmen Div, and JCB plastics occupied 655 Garrison Road. A residential property is also listed at 584 Garrison Road in 1973. In 1979, Red Star Express Lines of Ontario Limited (RSELOL) occupied the site and Griffin Products is listed at 655 Garrison Road. RSELOL is also listed in 1985 but the site is listed as vacant from 1990 to the 2011 listings.

The directory search results are included in Appendix III.

**HEIRS Documents:** Terrapex requested Fire Insurance Plans (FIPs), Inspection Reports, and Site Specific Plans and Reports through Opta Environmental Services HEIRS™, and no records pertaining to the site were found, therefore, no Opta report was ordered as it was unlikely to provide any additional information of use for the Phase I ESA.

### **3.1.4 GOVERNMENT AND PRIVATE DATABASES**

#### **EcoLog ERIS Ltd. Search**

EcoLog ERIS (Environmental Risk Information Services) Ltd. provides environmental and historical information using various sources of government and private records. EcoLog ERIS searched the site and surrounding properties for locations within a 250 m search radius from the boundary of the site. A copy of the ERIS report is included in Appendix IV.

The ERIS report did not identify any records pertaining to the site, but found two records pertaining to the surrounding area, from the Water Well Information System, which have been previously discussed (see Section 3.1.2).

Remaining records found within the Phase I study area which may represent a source of potential environmental concern for the site are summarized below:

- **Ontario Regulation 347 Waste Generators Summary:** A waste generation site is any site involved in the production, collection, handling and/or storage of regulated wastes. Three records listed the site as Red Star Express Lines of Ontario 33-022, a registered waste generator of petroleum distillates, oil skimmings and sludges, and waste oils and lubricants from 1986 to 1998.

11 records under Borderview Veterinary hospital Prof Corp was listed off-site at 1104 Thompson Road, located approximately 130 m west northwest of the Site. This was registered as a waste generator of pharmaceuticals, pathological wastes, and photoprocessing wastes from 2007 to 2017.

One record was listed at 575 Garrison Road under ELF ATOCHEM CANADA INC. from 1995-1998, a waste generator of aliphatic solvents, light fuels, polymeric resins, halogenated solvents, PCBs, waste oils and lubricants, organic laboratory chemicals, organic acids, and other specified organics.

Three records were listed at 575 Garrison Road under Penwalt Inc. a waste generator of aliphatic solvents, light fuels, polymeric resins, halogenated solvents, PCBs, waste oils and lubricants, organic laboratory chemicals, organic acids, and other specified organics.

- **ERIS Historical Searches:** ERIS has a database of all environmental risk reports completed since March 1999. A complete report was ordered for the Site. The report is dated as 6/1/1300, which is assumed to be incorrect, so it is unknown when the report was completed.

Seven records were identified off-Site. A complete report was ordered for 575 Garrison Avenue in 2003 and a standard report was ordered in 2010. A complete report was ordered in 2007 for Oakes Drive East. A complete report was ordered for 1148 Thompson Road in 2007. A custom report was ordered for 1135 Thompson Road in 2012. A Standard report was ordered for 570 Garrison Road in 2013. A basic report was order for Garrison Road & Thompson Road in 2005.

- **Pesticides Register:** The MOECC maintains a database of licensed operators and vendors of registered pesticide since 1988. Six records were identified at 584 Garrison Road, approximately 123 m east southeast of the Site, under Fort Erie Do-It-Center, Fort Erie Lumber and Building Supplies, and Bridgeburg Building Centre Ltd.,
- **Certificates of Approval:** The MOECC 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. Two records were identified at 575 Garrison Road, under Penwater Inc., located approximately 145 m southeast of the Site. One record was for a cancellation of approval in 1986 and the other record was an approval to discharge industrial air in 1986. One record was identified at Garrison Road and Thompson Road, under Duncan Johnson Cameron

PH.I in 1989 for an approval to discharge municipal sewage. One record was identified at Sims Avenue and Tenth Street under Mary Lisa Mandatori in 1996 for an approval to discharge municipal water. Two records were identified at Oakes Drive/Taylor Avenue, under Community Living – Fort Erie in 1995 for approvals to discharge municipal water and municipal sewer.

- **National PCB Inventory:** This includes some information on provincial and private PCB waste and storage sites. Some addresses may be Head office locations and are not necessarily the locations of where the waste is being used or stored. Two records were found. Two records are located at 575 Garrison Road under ATOCHEM CANADA INC. One record is from 1996 for askarel stored for disposal and the other is from 1995 for two transformers with high level PCBs (>1000 ppm).
- **Inventory of PCB Storage Sites:** THE MOECC Waste Management Branch maintains an inventory of PCB storage sites in Ontario. Two records are located at 575 Garrison Road under ATOCHEM CANADA INC.
- **Ontario Oil and Gas Wells:** The Ontario Oil, Gas and Salt Resources Corporation maintains a database of oil and gas wells drilled in Ontario. One record was for an abandoned natural gas well in 1955, located approximately 205 m southwest of the Site. The well was approximately 294 m deep. Another records was for an abandoned well, approximately 274 m deep from 1948, located approximately 247 m southeast of the Site.
- **Record of Site Condition:** 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. The property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use proposed to take place on the property. One RSC was identified at 575 Garrison Road, under Arkema Canada Inc., located approximately 146 m southeast of the Site.
- **Ontario Spills:** Regulations are part of the MOECC Environmental Protection Act, Part X. Four records were identified at 575 Garrison Road, located approximately 146 m southeast of the Site. All four spills occurred in 1988. One record was identified at 655 Garrison Road, located approximately 171 m southwest of the Site. One record was identified at highway 3 and Thompson Road. Since all of the spills are located over 100 m south of the site, they are not considered a potential concern to the environmental condition of the Site.

### **Additional Databases**

**Access Environment.** The review of the online registry did not identify any records associated with the site.

**Coal Gasification Waste Site Inventory:** The review of this inventory did not identify any former coal gasification sites within 1 km of the site.

**Industrial Sites Producing or Using Coal Tar and Related Tars Inventory:** The review of this inventory did not identify any former industrial sites producing or using coal tar and related tars within 1 km of the site.

**Brownfields Environmental Site Registry:** The review of the online registry identified one Record of Site Condition within 1 km of the site at 575 Garrison Road, under Arkema Canada Inc. on November 13, 2003.

**Waste Disposal Site Inventory:** The review of this inventory did not identify any records of active or closed waste disposal facilities within 1 km of the site.

### **3.1.5 GOVERNMENT AND REGULATORY FILES**

**MOECC File Information:** A request letter was sent to the MOECC Freedom of Information (FOI) Office for documented environmental concerns, including infractions, complaints, notifications or control orders. A response was received from the MOECC on November 23, 2017. The package contained information regarding several waste generator registrations and waste manifests for off-site shipping of liquid waste. The information included in the package did not contain any pertinent information in regards to environmental quality of the site.

**Town of Fort Erie:** A request was sent to the Town of Fort Erie for documented environmental concerns, waste disposal sites, sewer use by-law infractions or chemical spills. A response has yet to be received from the Town of Fort Erie. Any pertinent information provided by the town will be forwarded upon its receipt.

**The Region of Niagara:** A request was sent to the Region of Niagara for documented environmental concerns, waste disposal sites, sewer use by-law infractions or chemical spills. A response from Laura Graham, of Water and Wastewater Services responded on November 9, 2017. The response stated that no documentation was found that reference the subject property.

**Ministry of Natural Resources and Forestry (MNRF):** Information regarding the site was requested from the MNRF. A response has yet to be received from the MNRF. Any pertinent information provided by the town will be forwarded upon its receipt.

**Niagara Peninsula Conservation Authority (NPCA):** The NPCA was contacted regarding environmentally significant areas, nature reserves, areas of natural or scientific interest, fish habitats, and significant wetlands in the Phase I study area. A response has yet to be

received from the NPCA. Any pertinent information provided by the town will be forwarded upon its receipt.

**TSSA Files:** The TSSA was contacted regarding records of fuel storage tanks at the subject address of 644 Garrison Road, Fort Erie, Ontario. The TSSA replied that there is no information pertaining to the site.

Copies of the correspondence related to requests for MOE, Town of Fort Erie, Region of Niagara, MNRF and TSSA file information are included in Appendix V.

### **3.1.6 PREVIOUS REPORTS AND OTHER DOCUMENTATION**

Terrapex reviewed and summarized three reports for historical information on the site:

***Phase I Environmental Site Assessment, 644 Garrison Road, Fort Erie, Ontario, prepared by Niagara Environmental Dynamics Ltd. (NEDL), dated July 14, 2000***

NEDL conducted a Phase I ESA at 644 Garrison Road in July 2000. The site and surrounding properties included a mix of residential, light commercial properties and vacant land.

Based on the information obtained during this investigation, potential sources of impact to the environmental quality of soil or groundwater at the site were identified as follows:

- Four underground storage tanks (USTs) and three dispensing pumps were identified on the west perimeter of the property along the boundary of the Garrison Square Plaza. The pumps were in poor condition and the tanks appeared to have been not in use for 5 to 10 years.
- Oil change pits and a waste oil tank was also identified.
- It was recommended to remove the tanks and dispensing pumps.

***Review of Environmental Concerns of the Phase I Environmental Site Assessment Letter, 644 Garrison Road, Fort Erie, Ontario, prepared by NEDL, dated July 19, 2000***

NEDL reviewed the environmental concerns of the completed Phase I ESA at 644 Garrison Road in a Letter dated July 19, 2000. It was stated that the presence of water in the tanks strongly indicated a potential for soil contamination in the surrounding tank nest area.

This letter summarized the concerns of the Phase I ESA and also provided a budget for remediation costs of removing the USTs.

***Underground Storage Tank Removal Report, 644 Garrison Road, Fort Erie, Ontario, prepared by NEDL, dated November 17, 2000***

NEDL completed a UST removal program at 644 Garrison Road in November 2000. The tank removal report indicates that the USTs were excavated and removed off-site with approximately 55 tonnes of contaminated soil. The report indicates that some soil samples were collected from the tank nest, and that the analysis of these samples met the standards applicable in 2000, however, there was no discussion regarding the sampling protocol or the number or location of samples collected, and the analytical data was not provided in the report. Therefore, it is unknown whether the data from 2000 would meet the current 2017 standards. Groundwater sampling was not conducted.

The low hydraulic conductivity of the native clayey soil at the site would be expected to limit significant migration of any releases, should they occur. As a result, it is likely that any impact to the environmental quality of soil or groundwater associated with the operation of the automobile service garage at the site would be limited to the immediate vicinity of the spill, leak, or other release mechanism.

## **3.2 SITE INSPECTION**

### **3.2.1 SITE DESCRIPTION**

***General Site Layout:*** The site is rectangular and approximately 2.58 ha. The site is bounded by residential dwellings to the north, commercial properties to the east, Garrison Road to the south, and a commercial plaza to the west. At the time of the site inspection, the site was vacant with no buildings on-site.

The majority of the western portion of the site is sand and gravel surficial fill material with small patches of asphalt and the eastern portion is generally grass-covered. Vehicle access to the site is along the south property line, off Garrison Road.

A general site layout is shown on Figure 2. Selected site photographs are provided in Appendix VI.

***Services:*** The site is currently not serviced with hydro, natural gas, telephone and cable, or water and wastewater services.

***Debris:*** General drift debris (plastic bags, empty water bottles and cans, etc.) was noted along the southern and western property boundaries.

***Residues/Staining:*** No evidence of residues/staining was observed on the site.

***Backfilling Materials:*** There were no soil piles but surficial fill material was observed at the site during the inspection.

**Storage Containers:** No storage containers were identified on-site during the site inspection.

**Stressed Vegetation:** No stressed vegetation was identified on-site during the site inspection.

**Building Descriptions:** No buildings were identified on-site during the site inspection.

### 3.2.2 REGULATED MATERIALS AND DESIGNATED SUBSTANCES

**Asbestos-Containing Material (ACM):** Building materials in structures constructed prior to 1986 may contain ACM. No ACM was identified during the site inspection.

**Lead:** Potential lead containing materials were not identified during the site inspection.

**Mercury:** Small volumes of mercury are commonly found in fluorescent lamps, high intensity discharge (HID) lamps, temperature sensitive switches, tilt switches, thermostats, float switches, flow meters, and in surface coatings such as paint. Mercury was not identified on-site during the site inspection.

**Other Designated Substances:** Other designated substances in addition to asbestos, lead and mercury include acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, silica, and vinyl chloride. None of these substances were observed on the site during our inspection, with the exception of possible silica in the concrete debris, located on the southwest corner of the property.

Silica is present in the concrete and mortar construction materials, but it is not of concern provided it is not disturbed. If the building is to be renovated or demolished, workers and the public should be protected from inhaling silica dust by employing appropriate personal protective equipment and dust control measures.

Benzene, being associated with petroleum products, is present in the waste oil and service oil stored in ASTs, potential petroleum products leakage from the underground oil-water separator, and potential presence of residual petroleum products along the floor drains. Should such impacts be determined to be present, appropriate personal protective equipment should be utilized whenever workers may come into contact with impacted soils or groundwater (e.g., during excavation work).

**Polychlorinated Biphenyls (PCBs):** Historically, PCBs have been used in electrical equipment such as transformers, fluorescent light ballasts and capacitors. In Canada, PCBs have been prohibited from use in products, equipment, machinery, and electrical transformers/capacitors/ballasts that are manufactured in or imported into the country after 1980.



No oil-cooled transformers were observed during the site inspection.

**Urea Formaldehyde Foam Insulation (UFFI):** Urea Formaldehyde Foam Insulation (UFFI) is insulating foam plastic typically, but not exclusively, used to insulate wood-framed residential homes. Most installations occurred between 1977 and 1980, after which it was banned in Canada. UFFI is produced by mixing urea formaldehyde resin, a foaming agent, and compressed air, and injecting into void spaces.

UFFI is considered unlikely to be present. No foam insulation was observed, or evidence of the placement of UFFI at the site was identified during the site inspection.

**Ozone-Depleting Substances (ODS):** Ozone-depleting substances (ODS) include chlorofluorocarbons (CFCs), halons, carbon tetrachloride, and methyl chloroform. Most ODSs in industrial/commercial settings are found in refrigeration equipment (including air-conditioning units) and in older halon fire suppression systems for areas containing computers or other sensitive electronics. According to the MOE, halon production was phased out at the end of 1994 and CFC production was phased out at the end of 1995. HCFCs (which have a lower ozone depleting potential) are scheduled to be phased out by 2030.

No evidence of the bulk storage of ODS and other halocarbons was observed in the buildings during the site inspections.

**Hazardous Materials:** No hazardous materials were observed on the site during the site inspection.

**Wastes:** No wastes were observed at the time of inspection.

### 3.2.3 STORAGE TANKS

No evidence of existing or former USTs (such as vent or fill pipes) was observed during the site inspections.

### 3.2.4 ADJACENT PROPERTIES

The site is located in an area of commercial and residential development. Occupants of the surrounding sites at the time of the inspections are listed below:

**North:** Residential dwellings;

**Northeast:** Residential dwellings;

**East:** Commercial properties;

**Southeast:** Garrison Road, Victory Christian Church, and residential dwellings beyond;

**South:** Garrison Road, Golden Nugget Gaming Centre, vacant land and wooded area beyond;

**Southwest:** Garrison Road, Golden nugget Gaming Centre, Helena Street, mixed commercial and industrial properties beyond;

**West:** commercial plaza, Thompson Road, commercial properites beyond; and,

**Northwest:** Residential dwellings. Sims Avenue, vacant land beyond.

The adjacent properties were observed to be relatively clear of debris.

No concerns were identified from the observations of the remaining adjacent properties.

### **3.3 INTERVIEWS**

An interview was not completed as Terrapex was unable to contact anybody with pertinent historical information on the Site.

## 4.0 CONCLUSIONS

The site is rectangular-shaped, comprises an area of approximately 2.58 ha, and is currently a vacant lot with no buildings on-site. The majority of the eastern portion of the site is grass-covered and the western portion is generally surficial sand and gravel fill material with small patches of asphalt. The site is bounded by residential dwellings to the north, commercial properties to the east, Garrison Road to the south, and a commercial plaza to the west.

The site was first developed for commercial use prior to 1973.

Based on the information obtained during this investigation, potential sources of impact to the environmental quality of soil or groundwater at the site relating to historic use of the site as a trucking yard and maintenance facility, were identified as follows:

- possible leaks and spills in the former change pit from vehicle maintenance;
- minor spills or leaks of oils or similar fluids within the former automobile service area; and,
- possible leaks or spills from the former USTs and fuel dispensers.

Based on the identified potential sources of impact at the site, the contaminants of potential concern (CPOC) at the subject site are BTEX, PHCs, VOCs, metals and inorganic parameters.

In order to further reduce the level of uncertainty associated with the potential environmental concerns identified during the Phase I ESA, a Phase II ESA is recommended to determine the absence/presence of contamination in the soil and groundwater.

## 5.0 CLOSURE

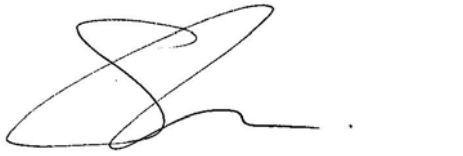
The Phase I Environmental Site Assessment described herein was conducted in accordance with the scope of work agreed upon by 2350048 Ontario Ltd. and Terrapex Environmental Ltd.

Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this Phase I Environmental Site Assessment, however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of the environmental conditions encountered at the site based on observation at the time of the site inspection date and on information available at the time of preparation of this report. The findings cannot be extended to future site conditions and on areas not investigated directly. By necessity, the findings and observations regarding actual or potential contamination of the property are based solely on the extent of observations and information gathered during the Phase I Environmental Site Assessment, and subsequent investigations of differing scope may reveal conflicting results.

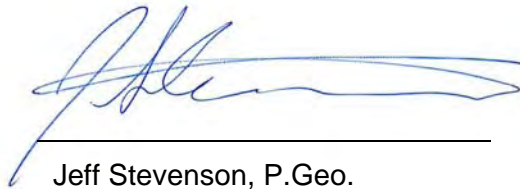
This report has been prepared for the sole use of 2350048 Ontario Ltd. Terrapex Environmental Ltd. accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than 2350048 Ontario Ltd.

Respectfully Submitted,

**TERRAPEX ENVIRONMENTAL LTD.**



Siratha Chhan, Dipl., E.P.  
Environmental Technologist



Jeff Stevenson, P.Geo.  
Senior Reviewer

## **FIGURES**

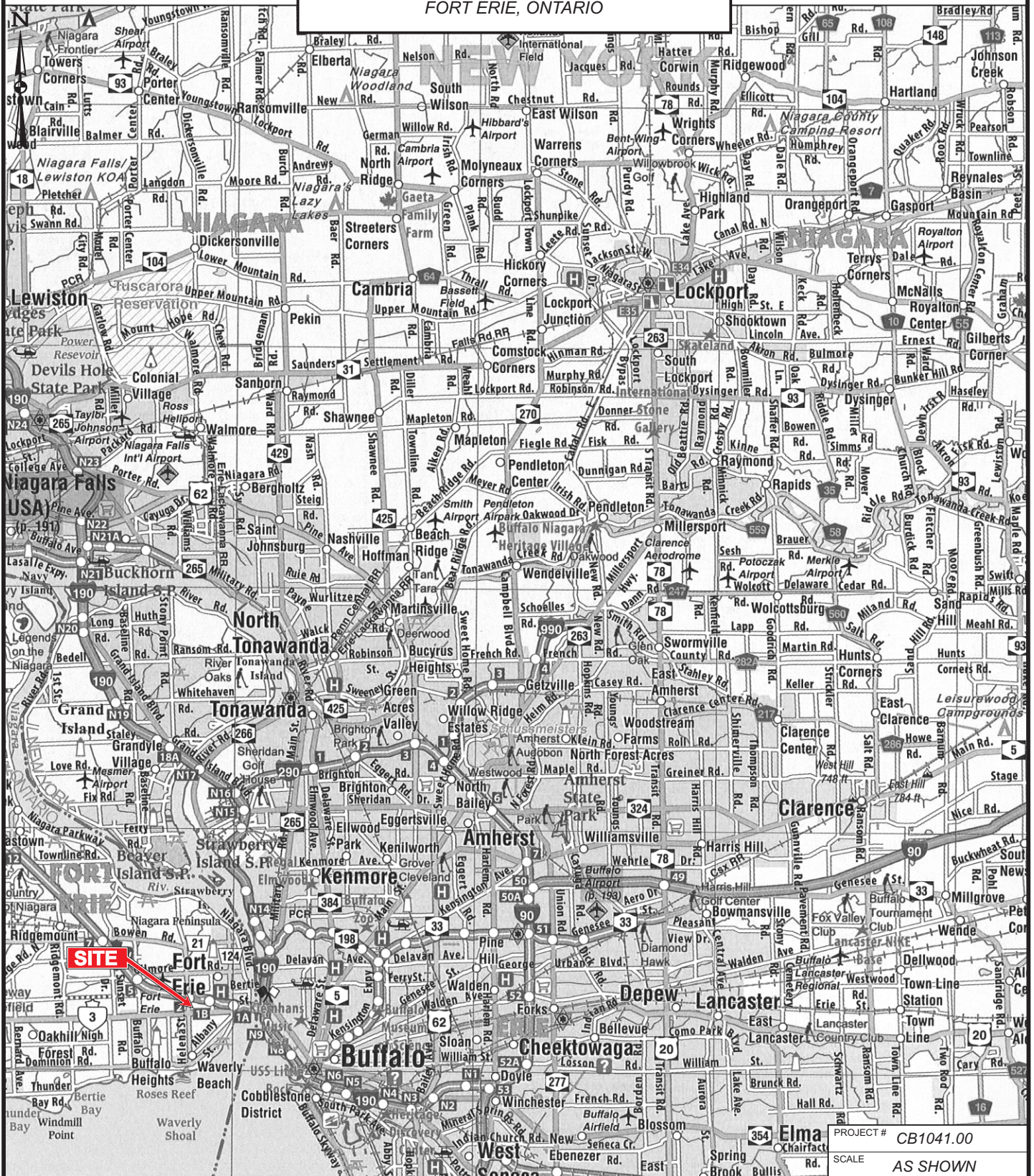


# SITE LOCATION

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



0 5km 10km

(APPROXIMATE)

PROJECT #	CB1041.00
SCALE	AS SHOWN
DATE	OCTOBER 2017
DRAWN	AB
CHECKED	SC
DRAWING #	

## FIGURE 1



# SITE LAYOUT

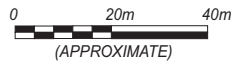
644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



APPROXIMATE PROPERTY BOUNDARY



SOURCE: GOOGL EARTH IMAGERY.

PROJECT #	CB1041.00		
SCALE	AS SHOWN		
DATE	OCTOBER 2017		
DRAWN	SC	CHECKED	JS
DRAWING #			

**FIGURE 2**

**APPENDIX I**  
**AERIAL PHOTOGRAPHS**





# 1934 AERIAL PHOTOGRAPH

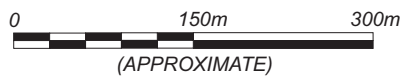
CLIENT

2350048 Ontario Ltd.

644 GARRISON ROAD  
FORT ERIE, ONTARIO



**SITE**



PROJECT #	CB1041.00
SCALE	AS SHOWN
DATE	NOVEMBER 2017
DRAWN	AB
CHECKED	
DRAWING #	

SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).

**FIGURE A1-1**



# 1965 AERIAL PHOTOGRAPH

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #		

**FIGURE A1-2**

SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).



# 1973 AERIAL PHOTOGRAPH

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



A 23285-10



SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).

PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #	FIGURE A1-3	

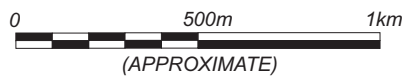


# 1988 AERIAL PHOTOGRAPH

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



PROJECT #	CB1041.00		
SCALE	AS SHOWN		
DATE	NOVEMBER 2017		
DRAWN	AB	CHECKED	SC
DRAWING #	FIGURE A1-4		

SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).



# 2002 SATELLITE IMAGE

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



**SITE**



SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).

PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #	FIGURE A1-5	



# 2006 SATELLITE IMAGE

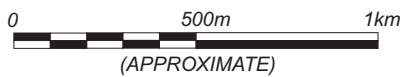
644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



**SITE**



PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #		

**FIGURE A1-6**

SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).



# 2016 SATELLITE IMAGE

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



SOURCE: NATIONAL AIR PHOTO LIBRARY (NAPL).

PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #	FIGURE A1-7	

**APPENDIX II**  
**TOPOGRAPHIC MAP AND ONTARIO BASE MAP**



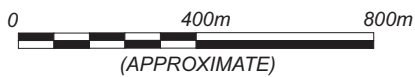
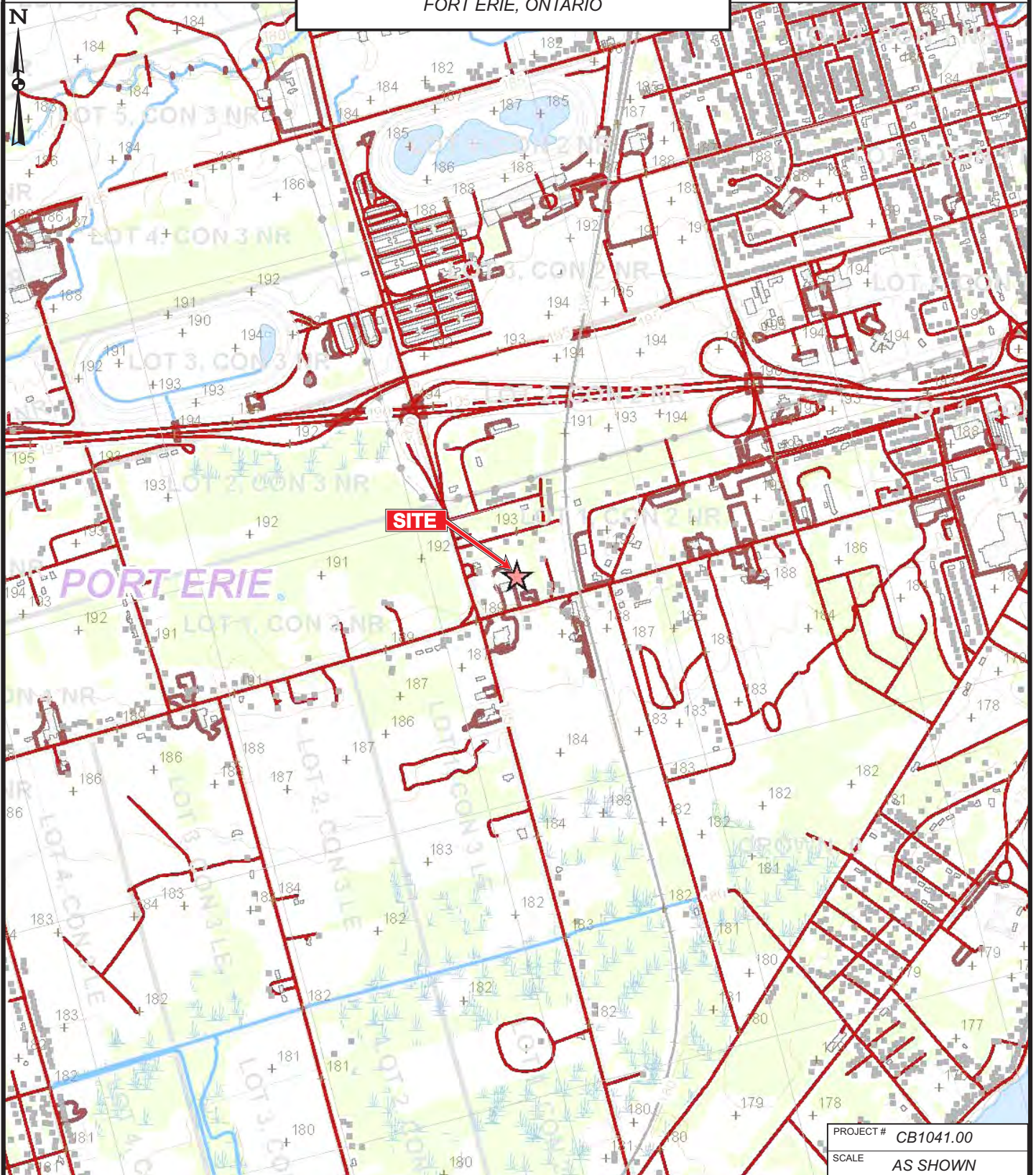


# TOPOGRAPHIC MAP

CLIENT

2350048 Ontario Ltd.

644 GARRISON ROAD  
FORT ERIE, ONTARIO



PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #		

**FIGURE A2-1**

SOURCE: ONTARIO BASE MAPPING (OBM), ONTARIO MINISTRY OF NATURAL RESOURCES, 2010.

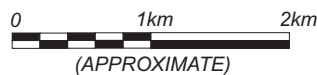
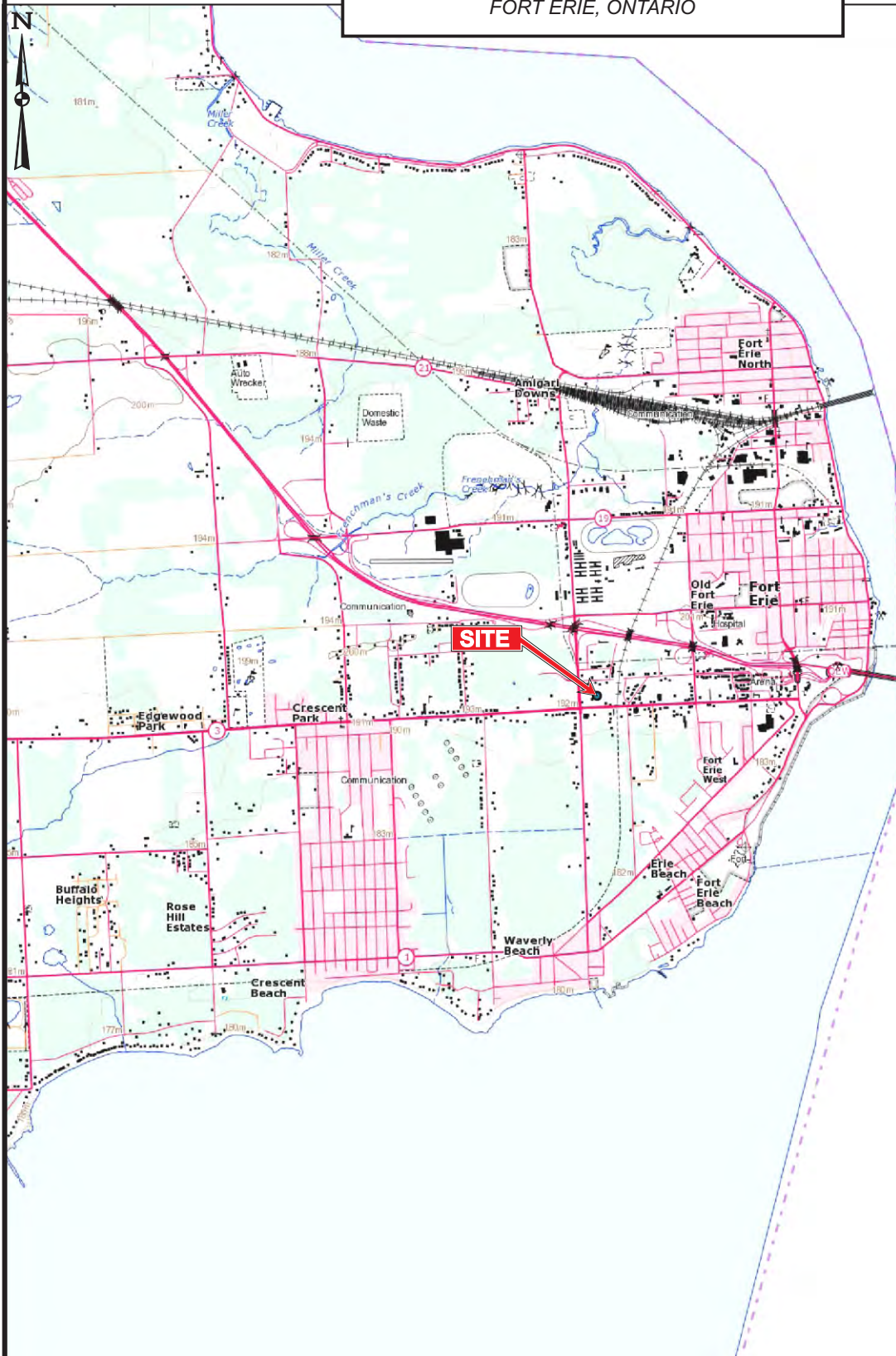


# TOPOGRAPHIC MAP

644 GARRISON ROAD  
FORT ERIE, ONTARIO

CLIENT

2350048 Ontario Ltd.



SOURCE: TOPORAMA, NATURAL RESOURCE CANADA, 2013.

PROJECT #	CB1041.00	
SCALE	AS SHOWN	
DATE	NOVEMBER 2017	
DRAWN	AB	CHECKED SC
DRAWING #	FIGURE A2-2	

**APPENDIX III  
CITY DIRECTORY**

<b>City Directory Information Source</b>
Vernon's Welland, Port Colborne & Fort Erie City Directory

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 2011	
<b>Site Listing:</b>	-Address Not Listed
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Fort Erie Do It Centre
<b>590 Garrison Road</b>	-Rossi & Tummillo Construction
<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Fort Erie Economic Development And Tourism Corporation -Greater Fort Erie Chamber of Commerce -Hear Again Balace & Hearing Clinics

	-Doctor's office
--	------------------

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 2005/06	
<b>Site Listing:</b>	-Address Not Listed
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Fort Erie Do It Centre
<b>590 Garrison Road</b>	-Address Not Listed
<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Glenny Insurance Broker LTD -Church of Jesus Christ of Latter-Day Saints -Women's Addiction Recovery Mediation -Great Fort Erie Chamber of Commerce -Black Creek Restaurant & Tavern -Fort Erie Economic Development and Tourism Corporation -Curves for Women

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario

<b>Year: 1999/2000</b>	
<b>Site Listing:</b>	-Address Not Listed
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Fort Erie Do It Centre
<b>590 Garrison Road</b>	-Address Not Listed
<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Glenny Insurance Broker LTD -Coffee Express -Church of Jesus Christ of Latter-Day Saints -Video Station -Freight Carriers Association of Canada -Women's Addiction Recovery Mediation

<b>PROJECT NUMBER: 20170925196</b>	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year: 1995/96</b>	
<b>Site Listing:</b>	-Vacant

<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Fort Erie Do It Centre
<b>590 Garrison Road</b>	-Address Not Listed
<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Ziff Louis QC  -Mister C's Donuts & More  -Crazy 8's  -Video Station  -Freight Carriers Association of Canada

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 1990/91	
<b>Site Listing:</b>	-Vacant
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Fort Erie Do It Centre
<b>590 Garrison Road</b>	-Address Not Listed

<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Gary Permanent Real Estate LTD -Ziff Louis QC -Travel Centre -Curiosity Corner Gift Shop -Mister C's Donuts & More -Numbers Pizza -Pony Printing Services -Wild Wild West -Smiling Fish Co -Video Station -Nutri System

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 1985	
<b>Site Listing:</b>	-Red Star Express Lines of Ontario Limited
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-No Return
<b>590 Garrison Road</b>	-Address Not Listed



<b>655 Garrison Road</b>	-Golden Nugget Bingo Hall
<b>660 Garrison Road</b>	-Address Not Listed

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 1979	
<b>Site Listing:</b>	-Red Star Express Lines of Ontario Limited
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Residential (1 Tenant)
<b>590 Garrison Road</b>	-Address Not Listed
<b>655 Garrison Road</b>	-Griffin Products
<b>660 Garrison Road</b>	-Address Not Listed

<b>PROJECT NUMBER:</b> 20170925196	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year:</b> 1973	
<b>Site Listing:</b>	-Wallace Transp Co LTD

<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Residential (1 Tenant)
<b>590 Garrison Road</b>	-Address Not Listed
<b>655 Garrison Road</b>	-Randall's Family Restaurant -Autotelic Ind LTD Pen Research & Development Div -J C B Plastics LTD
<b>660 Garrison Road</b>	-Address Not Listed

<b>PROJECT NUMBER: 20170925196</b>	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year: 1965</b>	
<b>Site Listing:</b>	-Street Not Listed
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Street Not Listed
<b>590 Garrison Road</b>	-Street Not Listed
<b>655 Garrison Road</b>	-Street Not Listed

<b>660 Garrison Road</b>	-Street Not Listed

<b>PROJECT NUMBER: 20170925196</b>	
<b>Site Address:</b>	644 Garrison Road, Fort Erie, Ontario
<b>Year: 1960</b>	
<b>Site Listing:</b>	-Street Not Listed
<b>Adjacent Properties:</b>	
<b>584 Garrison Road</b>	-Street Not Listed
<b>590 Garrison Road</b>	-Street Not Listed
<b>655 Garrison Road</b>	-Street Not Listed
<b>660 Garrison Road</b>	-Street Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory

**APPENDIX IV**  
**ECOLOG ERIS LTD. REPORT**

**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES



# DATABASE REPORT

**Project Property:**      *CB1041.00 - 644 Garrison Road, Fort  
Erie  
644 Garrison Rd  
Fort Erie ON L2A1N4*

**Project No:**

**Report Type:**          *Standard Report*

**Order No:**              *20170925196*

**Requested by:**        *Terrapex Environmental Ltd*

**Date Completed:**      *October 2, 2017*

**Environmental Risk  
Information Services**  
A division of Glacier Media Inc.  
P: 1.866.517.5204  
E: [info@erisinfo.com](mailto:info@erisinfo.com)

**[www.erisinfo.com](http://www.erisinfo.com)**

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## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

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# Executive Summary

## Property Information:

**Project Property:** CB1041.00 - 644 Garrison Road, Fort Erie  
644 Garrison Rd Fort Erie ON L2A1N4

**Project No:**

**Coordinates:**

**Latitude:** 42.906288  
**Longitude:** -78.938443  
**UTM Northing:** 4,752,470.02  
**UTM Easting:** 668,291.98  
**UTM Zone:** UTM Zone 17T

**Elevation:** 626 FT  
190.86 M

## Order Information:

**Order No:** 20170925196  
**Date Requested:** September 25, 2017  
**Requested by:** Terrapex Environmental Ltd  
**Report Type:** Standard Report

## Historical/Products:

**Aerial Photographs** National Collection - Digital (PDF)  
**City Directory Search** Subject Site plus 5 Adjacent Properties  
**ERIS Xplorer** [Data and Historical Layer Viewer](#)  
**Insurance Products** Fire Insurance Maps/Inspection Reports/Site Specific Plans  
**Land Title Search** Historical Title Search  
**Physical Setting Report (PSR)** PSR  
**Topographic Map** ANSI Map & Ontario Base Map (OBM)  
**Topographic Map** National Topographic Maps  
**Topographic Map** Ontario Base Map (OBM)

## Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking &amp; Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	6	6
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	7	8
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries &amp; Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	3	15	18
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian &amp; Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0



<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Within 0.25 km</b>	<b>Total</b>
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense &amp; Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense &amp; Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence &amp; Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBW	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	2	2
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGW	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	2	2
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	2	2
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	6	6
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	1	1
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	6	6
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	2	2
<b>Total:</b>			4	49	53

## Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<a href="#">1</a>	EHS		644 Garrison Rd Fort Erie ON L2A 1N5	SSW/95.8	-1.00	<a href="#">17</a>
<a href="#">1</a>	GEN	RED STAR EXPRESS LINES OF ONTARIO	644 GARRISON RD. FORT ERIE ON L2A 1N5	SSW/95.8	-1.00	<a href="#">17</a>
<a href="#">1</a>	GEN	RED STAR EXPRESS LINES OF ONTARIO 33-022	644 GARRISON RD. FORT ERIE ON L2A 1N5	SSW/95.8	-1.00	<a href="#">17</a>
<a href="#">1</a>	GEN	RED STAR EXPRESS LINES OF ONTARIO LTD.	644 GARRISON ROAD FORT ERIE ON L2A 1N5	SSW/95.8	-1.00	<a href="#">18</a>

## Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<a href="#">2</a>	PES	FORT ERIE DO-IT CENTER	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">18</a>
<a href="#">2</a>	PES	FORT ERIE DO-IT CENTER	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">18</a>
<a href="#">2</a>	PES	FORT ERIE LUMBER & BUILDING SUPPLIES	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">18</a>
<a href="#">2</a>	PES	BRIDGEBURG BUILDING CENTRE LTD	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">18</a>
<a href="#">2</a>	PES	BRIDGEBURG BUILDING CENTRE LTD	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">19</a>
<a href="#">2</a>	PES	FORT ERIE LUMBER & BUILDING SUPPLIES	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE/123.7	0.00	<a href="#">19</a>
<a href="#">3</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON	WNW/126.4	0.00	<a href="#">19</a>
<a href="#">3</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW/126.4	0.00	<a href="#">19</a>
<a href="#">3</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW/126.4	0.00	<a href="#">20</a>
<a href="#">3</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW/126.4	0.00	<a href="#">20</a>
<a href="#">3</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW/126.4	0.00	<a href="#">20</a>
<a href="#">4</a>	WWIS		lot 1 con 2 ON	NNW/133.1	0.24	<a href="#">21</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">23</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">24</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">24</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">24</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">25</a>
<a href="#">5</a>	GEN	Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW/146.1	0.00	<a href="#">25</a>
<a href="#">6</a>	CA	PENNWALT INC.	575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5	SE/146.4	-1.00	<a href="#">2</a>
<a href="#">6</a>	CA	PENNWALT INC.	575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5	SE/146.4	-1.00	<a href="#">26</a>
<a href="#">6</a>	EHS		575 Garrison Road Fort Erie ON L2A 1N5	SE/146.4	-1.00	<a href="#">26</a>
<a href="#">6</a>	EHS		575 Garrison Road Fort Erie ON L2A 1N5	SE/146.4	-1.00	<a href="#">26</a>
<a href="#">6</a>	GEN	ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">26</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
<a href="#">6</a>	GEN	PENNWALT INC.	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">27</a>
<a href="#">6</a>	GEN	PENNWALT INC. (SEE & USE ON0139202)	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">28</a>
<a href="#">6</a>	GEN	PENNWALT INC. 30-074	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">28</a>
<a href="#">6</a>	NPCB	ATOCHEM CAN. LTD	575 GARRISON RD. FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">29</a>
<a href="#">6</a>	NPCB	ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">30</a>
<a href="#">6</a>	OPCB	ATOCHEM CAN. LTD	575 GARRISON RD. FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">30</a>
<a href="#">6</a>	OPCB	ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE/146.4	-1.00	<a href="#">31</a>
<a href="#">6</a>	RSC	Arkema Canada Inc.	575 Garrison Rd, Fort Erie, ON, L2A 1N5 Fort Erie ON L2A 1N5	SE/146.4	-1.00	<a href="#">31</a>
<a href="#">6</a>	SPL	PENNWALT LUCIDOL	575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE/146.4	-1.00	<a href="#">31</a>
<a href="#">6</a>	SPL	PENNWALT LUCIDOL	FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE/146.4	-1.00	<a href="#">32</a>
<a href="#">6</a>	SPL	PENNWALT LUCIDOL	FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE/146.4	-1.00	<a href="#">32</a>
<a href="#">6</a>	SPL	PENNWALT LUCIDOL	575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE/146.4	-1.00	<a href="#">32</a>
<a href="#">7</a>	SPL	The Regional Municipality of Niagara	Hwy 3 and Thompson Rd Fort Erie ON	SW/171.6	-1.00	<a href="#">33</a>
<a href="#">8</a>	CA	MARY LISA MANDATORI	SIMS AVE/TENTH STREET FORT ERIE TOWN ON	NE/177.9	1.00	<a href="#">33</a>
<a href="#">9</a>	CA	DUNCAN JOHN CAMERON PH. I	GARRISON RD. AND THOMPSON RD. FORT ERIE TOWN ON	SW/182.0	-1.00	<a href="#">33</a>
<a href="#">9</a>	EHS		Garrison Rd && Thompson Rd Fort Erie ON	SW/182.0	-1.00	<a href="#">34</a>
<a href="#">10</a>	WWIS		Fort Erie ON	NNW/195.7	0.55	<a href="#">34</a>
<a href="#">11</a>	SPL	TRANSPORT TRUCK	655 GARRISON ROAD. MOTOR VEHICLE (OPERATING FLUID) FORT ERIE TOWN ON L2A 1N5	SSW/203.2	-2.57	<a href="#">41</a>
<a href="#">12</a>	OOGW	DiMartile, T.A.	Town of Fort Erie ON	SW/205.4	-2.03	<a href="#">41</a>
<a href="#">13</a>	EHS		Oakes Drive East Town of Fort Erie ON	NNW/210.9	0.23	<a href="#">43</a>
<a href="#">14</a>	EHS		1148 Thompson Road Fort Erie ON L2A 6A8	NW/227.0	0.00	<a href="#">43</a>
<a href="#">15</a>	EHS		1135 Thompson Road Fort Erie ON L2A 6T7	WNW/227.7	0.00	<a href="#">44</a>
<a href="#">16</a>	EHS		570 Garrison Rd Fort Erie ON L2A 1N4	ESE/230.9	-0.66	<a href="#">44</a>
<a href="#">17</a>	CA	COMMUNITY LIVING - FORT ERIE	OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON	NNW/241.2	1.00	<a href="#">44</a>
<a href="#">17</a>	CA	COMMUNITY LIVING - FORT ERIE	OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON	NNW/241.2	1.00	<a href="#">44</a>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<a href="#">18</a>	OOGW	DiMartile, T.A.	Town of Fort Erie ON	SE/246.7	-1.80	<a href="#">45</a>

# Executive Summary: Summary By Data Source

## **CA - Certificates of Approval**

A search of the CA database, dated 1985-Oct 30, 2011\* has found that there are 6 CA site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
MARY LISA MANDATORI	SIMS AVE/TENTH STREET FORT ERIE TOWN ON	NE	177.85	<a href="#"><u>8</u></a>
COMMUNITY LIVING - FORT ERIE	OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON	NNW	241.23	<a href="#"><u>17</u></a>
COMMUNITY LIVING - FORT ERIE	OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON	NNW	241.23	<a href="#"><u>17</u></a>

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
PENNWALT INC.	575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5	SE	146.40	<a href="#"><u>6</u></a>
PENNWALT INC.	575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5	SE	146.40	<a href="#"><u>6</u></a>
DUNCAN JOHN CAMERON PH. I	GARRISON RD. AND THOMPSON RD. FORT ERIE TOWN ON	SW	181.97	<a href="#"><u>9</u></a>

## **EHS - ERIS Historical Searches**

A search of the EHS database, dated 1999-Aug 2016 has found that there are 8 EHS site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	Oakes Drive East Town of Fort Erie ON	NNW	210.86	<a href="#"><u>13</u></a>
	1148 Thompson Road Fort Erie ON L2A 6A8	NW	227.04	<a href="#"><u>14</u></a>
	1135 Thompson Road Fort Erie ON L2A 6T7	WNW	227.68	<a href="#"><u>15</u></a>

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	644 Garrison Rd Fort Erie ON L2A 1N5	SSW	95.83	<a href="#"><u>1</u></a>
	575 Garrison Road Fort Erie ON L2A 1N5	SE	146.40	<a href="#"><u>6</u></a>
	575 Garrison Road Fort Erie ON L2A 1N5	SE	146.40	<a href="#"><u>6</u></a>

Garrison Rd & Thompson Rd Fort Erie ON	SW	181.97	<u>9</u>
570 Garrison Rd Fort Erie ON L2A 1N4	ESE	230.88	<u>16</u>

## **GEN - Ontario Regulation 347 Waste Generators Summary**

A search of the GEN database, dated 1986-Jun 2017 has found that there are 18 GEN site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW	126.38	<u>3</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW	126.38	<u>3</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON	WNW	126.38	<u>3</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW	126.38	<u>3</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A6A8	WNW	126.38	<u>3</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
Borderview Veterinary Hospital	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
Borderview Veterinary Hospital Prof Corp	1104 Thompson Road Fort Erie ON L2A 6A8	WNW	146.08	<u>5</u>
<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
RED STAR EXPRESS LINES OF ONTARIO LTD.	644 GARRISON ROAD FORT ERIE ON L2A 1N5	SSW	95.83	<u>1</u>
RED STAR EXPRESS LINES OF ONTARIO 33-022	644 GARRISON RD. FORT ERIE ON L2A 1N5	SSW	95.83	<u>1</u>
RED STAR EXPRESS LINES OF ONTARIO	644 GARRISON RD. FORT ERIE ON L2A 1N5	SSW	95.83	<u>1</u>
ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<u>6</u>
PENNWALT INC.	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<u>6</u>
PENNWALT INC. (SEE & USE ON0139202)	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<u>6</u>

PENNWALT INC. 074	30-	LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<a href="#">6</a>
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### **NPCB - National PCB Inventory**

A search of the NPCB database, dated 1988-2008\* has found that there are 2 NPCB site(s) within approximately 0.25 kilometers of the project property.

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<a href="#">6</a>
ATOCHEM CAN. LTD	575 GARRISON RD. FORT ERIE ON L2A 1N5	SE	146.40	<a href="#">6</a>

### **OOGW - Ontario Oil and Gas Wells**

A search of the OOGW database, dated 1800-Oct 2016 has found that there are 2 OOGW site(s) within approximately 0.25 kilometers of the project property.

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
DiMartile, T.A.	Town of Fort Erie ON	SW	205.43	<a href="#">12</a>
DiMartile, T.A.	Town of Fort Erie ON	SE	246.66	<a href="#">18</a>

### **OPCB - Inventory of PCB Storage Sites**

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 2 OPCB site(s) within approximately 0.25 kilometers of the project property.

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
ELF ATOCHEM CANADA INC.	575 GARRISON ROAD FORT ERIE ON L2A 1N5	SE	146.40	<a href="#">6</a>
ATOCHEM CAN. LTD	575 GARRISON RD. FORT ERIE ON L2A 1N5	SE	146.40	<a href="#">6</a>

### **PES - Pesticide Register**

A search of the PES database, dated 1988-Oct 2016 has found that there are 6 PES site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
FORT ERIE LUMBER & BUILDING SUPPLIES	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>
FORT ERIE LUMBER & BUILDING SUPPLIES	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>
BRIDGEBURG BUILDING CENTRE LTD	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>
BRIDGEBURG BUILDING CENTRE LTD	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>



<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
FORT ERIE DO-IT CENTER	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>
FORT ERIE DO-IT CENTER	584 GARRISON ROAD FORT ERIE ON L2A 1N4	ESE	123.72	<a href="#">2</a>

### **RSC - Record of Site Condition**

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Aug 2017 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Arkema Canada Inc.	575 Garrison Rd, Fort Erie, ON, L2A 1N5 Fort Erie ON L2A 1N5	SE	146.40	<a href="#">6</a>

### **SPL - Ontario Spills**

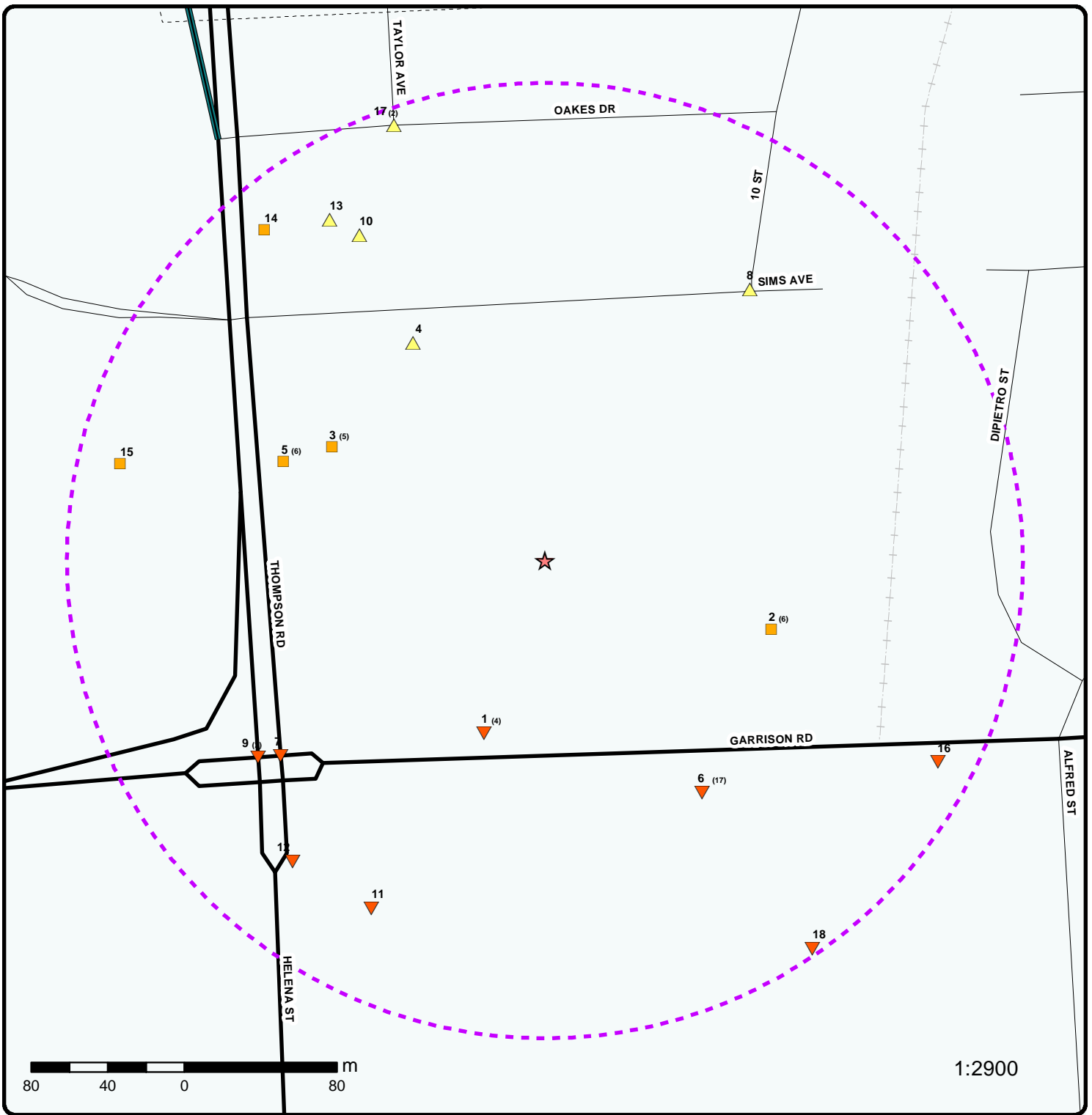
A search of the SPL database, dated 1988-Jun 2017 has found that there are 6 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
PENNWALT LUCIDOL	FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE	146.40	<a href="#">6</a>
PENNWALT LUCIDOL	FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SE	146.40	<a href="#">6</a>
PENNWALT LUCIDOL	575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD	SE	146.40	<a href="#">6</a>
PENNWALT LUCIDOL	FORT ERIE TOWN ON 575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD	SE	146.40	<a href="#">6</a>
The Regional Municipality of Niagara	FORT ERIE TOWN ON Hwy 3 and Thompson Rd Fort Erie ON	SW	171.65	<a href="#">7</a>
TRANSPORT TRUCK	655 GARRISON ROAD. MOTOR VEHICLE (OPERATING FLUID) FORT ERIE TOWN ON L2A 1N5	SSW	203.21	<a href="#">11</a>

### **WWIS - Water Well Information System**

A search of the WWIS database, dated Mar 31, 2017 has found that there are 2 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 1 con 2 ON	NNW	133.15	<a href="#">4</a>
	Fort Erie ON	NNW	195.69	<a href="#">10</a>



## Map : 0.25 Kilometer Radius

Order No: 20170925196

Address: 644 Garrison Rd, Fort Erie, ON, L2A1N4



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



# Aerial

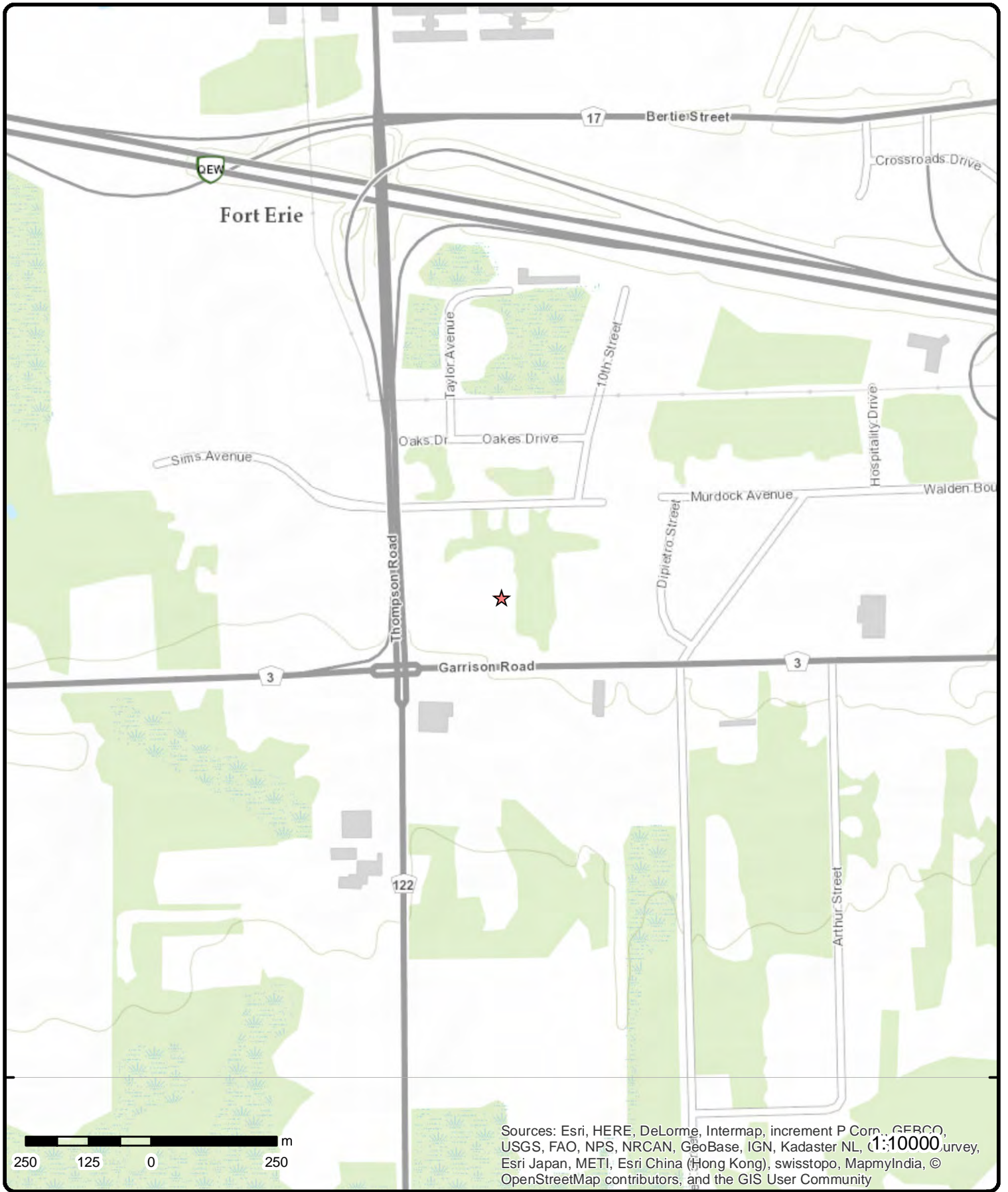
Address: 644 Garrison Rd, Fort Erie, ON, L2A1N4

Source: ESRI World Imagery

Order No: 20170925196



© ERIS Information Limited Partnership



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, (1:10000)urvey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

# Topographic Map

Address: 644 Garrison Rd, Fort Erie, ON, L2A1N4

Source: ESRI World Topographic Map

Order No: 20170925196



© ERIS Information Limited Partnership

# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">1</a>	1 of 4	SSW/95.8	189.9	644 Garrison Rd Fort Erie ON L2A 1N5	EHS

Postal Code:

City:

Address2:

Address1:

Provstate:

Order No.:

20000606001

Addit. Info Ordered::

Report Date:

6/1/1300

Report Type:

Complete Report

Search Radius (km):

0.25

<a href="#">1</a>	2 of 4	SSW/95.8	189.9	RED STAR EXPRESS LINES OF ONTARIO 644 GARRISON RD. FORT ERIE ON L2A 1N5	GEN
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Generator No.:

ON0147401

Status:

Approval Years:

86,87,88,89,90

Contam. Facility:

MHSW Facility:

SIC Code:

4561

SIC Description:

GEN. FREIGHT TRUCK.

PO Box No.:

Country:

Choice of Contact:

Co Admin:

Phone No. Admin:

--Details--

Waste Code:

213

Waste Description:

PETROLEUM DISTILLATES

Waste Code:

251

Waste Description:

OIL SKIMMINGS & SLUDGES

Waste Code:

252

Waste Description:

WASTE OILS & LUBRICANTS

<a href="#">1</a>	3 of 4	SSW/95.8	189.9	RED STAR EXPRESS LINES OF ONTARIO 33-022 644 GARRISON RD. FORT ERIE ON L2A 1N5	GEN
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Generator No.:

ON0147401

Status:

Approval Years:

92,93,94,95,96,97

Contam. Facility:

MHSW Facility:

SIC Code:

4561

SIC Description:

GEN. FREIGHT TRUCK.

PO Box No.:

Country:

Choice of Contact:

Co Admin:

Phone No. Admin:

--Details--

Waste Code:

213

Waste Description:

PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Waste Code:</b>		251			
<b>Waste Description:</b>		OIL SKIMMINGS & SLUDGES			
<b>Waste Code:</b>		252			
<b>Waste Description:</b>		WASTE OILS & LUBRICANTS			
<a href="#">1</a>	4 of 4	SSW/95.8	189.9	RED STAR EXPRESS LINES OF ONTARIO LTD. 644 GARRISON ROAD FORT ERIE ON L2A 1N5	GEN
<b>Generator No.:</b>	ON0147401			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	98			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	4561				
<b>SIC Description:</b>	GEN. FREIGHT TRUCK.				
<b>--Details--</b>					
<b>Waste Code:</b>		251			
<b>Waste Description:</b>		OIL SKIMMINGS & SLUDGES			
<b>Waste Code:</b>		252			
<b>Waste Description:</b>		WASTE OILS & LUBRICANTS			
<b>Waste Code:</b>		213			
<b>Waste Description:</b>		PETROLEUM DISTILLATES			
<a href="#">2</a>	1 of 6	ESE/123.7	190.9	FORT ERIE DO-IT CENTER 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>					
<b>Licence Type:</b>	Vendor				
<a href="#">2</a>	2 of 6	ESE/123.7	190.9	FORT ERIE DO-IT CENTER 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>	23-01-09047-0				
<b>Licence Type:</b>	Limited Vendor				
<a href="#">2</a>	3 of 6	ESE/123.7	190.9	FORT ERIE LUMBER & BUILDING SUPPLIES 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>					
<b>Licence Type:</b>	Limited Vendor				
<a href="#">2</a>	4 of 6	ESE/123.7	190.9	BRIDGEBURG BUILDING CENTRE LTD 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>					
<b>Licence Type:</b>	Limited Vendor				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">2</a>	5 of 6	ESE/123.7	190.9	BRIDGEBURG BUILDING CENTRE LTD 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>		Vendor			
<b>Licence Type:</b>		Vendor			
<a href="#">2</a>	6 of 6	ESE/123.7	190.9	FORT ERIE LUMBER & BUILDING SUPPLIES 584 GARRISON ROAD FORT ERIE ON L2A 1N4	PES
<b>Detail Licence No.:</b>		Vendor			
<b>Licence Type:</b>		Vendor			
<a href="#">3</a>	1 of 5	WNW/126.4	190.9	Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	2013			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	VETERINARY SERVICES				
<b>--Details--</b>					
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<a href="#">3</a>	2 of 5	WNW/126.4	190.9	Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A6A8	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	Canada
<b>Approval Years:</b>	2016			<b>Choice of Contact:</b>	CO_OFFICIAL
<b>Contam. Facility:</b>	No				
<b>MHSW Facility:</b>	No				
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	VETERINARY SERVICES				
<b>--Details--</b>					
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	312				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Waste Description:</b>		PATHOLOGICAL WASTES			
<a href="#">3</a>	3 of 5	WNW/126.4	190.9	<b>Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A6A8</b>	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	Canada
<b>Approval Years:</b>	2015			<b>Choice of Contact:</b>	CO_OFFICIAL
<b>Contam. Facility:</b>	No			<b>Co Admin:</b>	
<b>MHSW Facility:</b>	No			<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	VETERINARY SERVICES				
<b>--Details--</b>					
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<a href="#">3</a>	4 of 5	WNW/126.4	190.9	<b>Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A6A8</b>	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	Canada
<b>Approval Years:</b>	2014			<b>Choice of Contact:</b>	CO_OFFICIAL
<b>Contam. Facility:</b>	No			<b>Co Admin:</b>	
<b>MHSW Facility:</b>	No			<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	VETERINARY SERVICES				
<b>--Details--</b>					
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<a href="#">3</a>	5 of 5	WNW/126.4	190.9	<b>Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A6A8</b>	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>	Registered			<b>Country:</b>	Canada
<b>Approval Years:</b>	As of Jun 2017			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>					
<b>SIC Description:</b>					



Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>--Details--</b>					
<b>Waste Code:</b>		261 A			
<b>Waste Description:</b>		Pharmaceuticals			
<b>Waste Code:</b>		312 P			
<b>Waste Description:</b>		Pathological wastes			
<b>Waste Code:</b>		264 L			
<b>Waste Description:</b>		Photoprocessing wastes			
<b>Waste Code:</b>		264 T			
<b>Waste Description:</b>		Photoprocessing wastes			

<u>4</u>	1 of 1	NNW/133.1	191.1	lot 1 con 2 ON	WWIS
<b>Well ID:</b>	6600465			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	1
<b>Primary Water Use:</b>	Domestic			<b>Date Received:</b>	9/14/1955
<b>Sec. Water Use:</b>	0			<b>Selected Flag:</b>	1
<b>Final Well Status:</b>	Water Supply			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	5425
<b>Casing Material:</b>				<b>Form Version:</b>	1
<b>Audit No:</b>				<b>Owner:</b>	
<b>Tag:</b>				<b>Street Name:</b>	
<b>Construction Method:</b>				<b>County:</b>	NIAGARA (WELLAND)
<b>Elevation (m):</b>				<b>Municipality:</b>	FORT ERIE TOWN (BERTIE)
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	001
<b>Well Depth:</b>				<b>Concession:</b>	02
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	NRF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					

**Bore Hole Information**

<b>Bore Hole ID:</b>	10460199	<b>Spatial Status:</b>	
<b>DP2BR:</b>	14	<b>Cluster Kind:</b>	
<b>Code OB:</b>	r	<b>UTMRC:</b>	9
<b>Code OB Desc:</b>	Bedrock	<b>UTMRC Desc:</b>	unknown UTM
<b>Open Hole:</b>		<b>Location Method:</b>	p9
<b>Elevation:</b>	192.076339	<b>Org CS:</b>	
<b>Elevrc:</b>		<b>Date Completed:</b>	8/23/1955
<b>Remarks:</b>			
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

**Overburden and Bedrock**

**Materials Interval**

<b>Formation ID:</b>	932588951
<b>Layer:</b>	1
<b>Color:</b>	6
<b>General Color:</b>	BROWN
<b>Mat1:</b>	05

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0.00			
<b>Formation End Depth:</b>		9.00			
<b>Formation End Depth UOM:</b>		ft			
<b>Formation ID:</b>		932588952			
<b>Layer:</b>		2			
<b>Color:</b>		3			
<b>General Color:</b>		BLUE			
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		9.00			
<b>Formation End Depth:</b>		14.00			
<b>Formation End Depth UOM:</b>		ft			
<b>Formation ID:</b>		932588953			
<b>Layer:</b>		3			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		14.00			
<b>Formation End Depth:</b>		43.00			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		966600465			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		11008769			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930747360			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		16.00			
<b>Casing Diameter:</b>		6.00			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Casing ID:</b> 930747361					
<b>Layer:</b> 2					
<b>Material:</b> 4					
<b>Open Hole or Material:</b> OPEN HOLE					
<b>Depth From:</b>					
<b>Depth To:</b> 43.00					
<b>Casing Diameter:</b> 6.00					
<b>Casing Diameter UOM:</b> inch					
<b>Casing Depth UOM:</b> ft					
<b>Results of Well Yield Testing</b>					
<b>Pump Test ID:</b> 996600465					
<b>Pump Set At:</b>					
<b>Static Level:</b> 9.00					
<b>Final Level After Pumping:</b> 12.00					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b> 9.00					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b> ft					
<b>Rate UOM:</b> GPM					
<b>Water State After Test Code:</b> 1					
<b>Water State After Test:</b> CLEAR					
<b>Pumping Test Method:</b> 1					
<b>Pumping Duration HR:</b> 0					
<b>Pumping Duration MIN:</b> 30					
<b>Flowing:</b> N					
<b>Water Details</b>					
<b>Water ID:</b> 933947726					
<b>Layer:</b> 1					
<b>Kind Code:</b> 3					
<b>Kind:</b> SULPHUR					
<b>Water Found Depth:</b> 41.00					
<b>Water Found Depth UOM:</b> ft					
<a href="#">5</a>	1 of 6	WNW/146.1	190.9	Borderview Veterinary Hospital 1104 Thompson Road Fort Erie ON L2A 6A8	GEN
<b>Generator No.:</b> ON8521698		<b>PO Box No.:</b>			
<b>Status:</b>		<b>Country:</b>			
<b>Approval Years:</b> 06		<b>Choice of Contact:</b>			
<b>Contam. Facility:</b>		<b>Co Admin:</b>			
<b>MHSW Facility:</b>		<b>Phone No. Admin:</b>			
<b>SIC Code:</b> 541940					
<b>SIC Description:</b> Veterinary Services					
<b>--Details--</b>					
<b>Waste Code:</b> 261					
<b>Waste Description:</b> PHARMACEUTICALS					
<b>Waste Code:</b> 264					
<b>Waste Description:</b> PHOTOPROCESSING WASTES					
<b>Waste Code:</b> 312					
<b>Waste Description:</b> PATHOLOGICAL WASTES					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>5</u>	2 of 6	WNW/146.1	190.9	Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A 6A8	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	07,08			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	Veterinary Services				
<b>--Details--</b>					
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<u>5</u>	3 of 6	WNW/146.1	190.9	Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A 6A8	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	2009			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	Veterinary Services				
<b>--Details--</b>					
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<u>5</u>	4 of 6	WNW/146.1	190.9	Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A 6A8	GEN
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	2010			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	Veterinary Services				
<b>--Details--</b>					
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Waste Code:</b>		261			
<b>Waste Description:</b>		PHARMACEUTICALS			
<b>Waste Code:</b>		312			
<b>Waste Description:</b>		PATHOLOGICAL WASTES			
<a href="#"><u>5</u></a>	5 of 6	<b>WNW/146.1</b>	<b>190.9</b>	<b>Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A 6A8</b>	<b>GEN</b>
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	2011			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	Veterinary Services				
<b>--Details--</b>					
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<a href="#"><u>5</u></a>	6 of 6	<b>WNW/146.1</b>	<b>190.9</b>	<b>Borderview Veterinary Hospital Prof Corp 1104 Thompson Road Fort Erie ON L2A 6A8</b>	<b>GEN</b>
<b>Generator No.:</b>	ON8521698			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	2012			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	541940				
<b>SIC Description:</b>	Veterinary Services				
<b>--Details--</b>					
<b>Waste Code:</b>	312				
<b>Waste Description:</b>	PATHOLOGICAL WASTES				
<b>Waste Code:</b>	261				
<b>Waste Description:</b>	PHARMACEUTICALS				
<b>Waste Code:</b>	264				
<b>Waste Description:</b>	PHOTOPROCESSING WASTES				
<a href="#"><u>6</u></a>	1 of 17	<b>SE/146.4</b>	<b>189.9</b>	<b>PENNWALT INC. 575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5</b>	<b>CA</b>
<b>Certificate #:</b>	8-2114-86-				
<b>Application Year:</b>	86				
<b>Issue Date:</b>	9/12/1986				
<b>Approval Type:</b>	Industrial air				
<b>Status:</b>	Approved				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Application Type:</b> <b>Client Name::</b> <b>Client Address::</b> <b>Client City::</b> <b>Client Postal Code::</b> <b>Project Description::</b> FUME SCRUBBER <b>Contaminants::</b> Benzoyl Chloride <b>Emission Control::</b> Packed Tower,					
<u>6</u>	2 of 17	SE/146.4	189.9	PENNWALT INC. 575 GARRISON RD. FORT ERIE TOWN ON L2A 1N5	CA
<b>Certificate #:</b> 8-2119-86- <b>Application Year:</b> 86 <b>Issue Date:</b> 6/11/1986 <b>Approval Type:</b> Industrial air <b>Status:</b> Cancelled <b>Application Type:</b> <b>Client Name::</b> <b>Client Address::</b> <b>Client City::</b> <b>Client Postal Code::</b> <b>Project Description::</b> SEE NO. 8-2114-86 <b>Contaminants::</b> <b>Emission Control::</b>					
<u>6</u>	3 of 17	SE/146.4	189.9	575 Garrison Road Fort Erie ON L2A 1N5	EHS
<b>Postal Code:</b> <b>City:</b> <b>Address2:</b> <b>Address1:</b> <b>Provstate:</b> <b>Order No.:</b> 20030204003 <b>Addit. Info Ordered::</b> <b>Report Date:</b> 2/12/03 <b>Report Type:</b> Complete Report <b>Search Radius (km):</b> 0.50					
<u>6</u>	4 of 17	SE/146.4	189.9	575 Garrison Road Fort Erie ON L2A 1N5	EHS
<b>Postal Code:</b> <b>City:</b> <b>Address2:</b> <b>Address1:</b> <b>Provstate:</b> <b>Order No.:</b> 20100106006 <b>Addit. Info Ordered::</b> Fire Insur. Maps and/or Site Plans; <b>Report Date:</b> 1/14/2010 <b>Report Type:</b> Standard Report <b>Search Radius (km):</b> 0.25					
<u>6</u>	5 of 17	SE/146.4	189.9	ELF ATOCHEM CANADA INC. 575 GARRISON ROAD FORT ERIE ON L2A 1N5	GEN

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Generator No.:</b> <b>Status:</b> <b>Approval Years:</b> <b>Contam. Facility:</b> <b>MHSW Facility:</b> <b>SIC Code:</b> <b>SIC Description:</b>	ON0139202  95,96,97,98  3712	     IND. ORGANIC CHEM.		<b>PO Box No.:</b> <b>Country:</b> <b>Choice of Contact:</b> <b>Co Admin:</b> <b>Phone No. Admin:</b>	
<b>--Details--</b>					
<b>Waste Code:</b> <b>Waste Description:</b>		212 ALIPHATIC SOLVENTS			
<b>Waste Code:</b> <b>Waste Description:</b>		221 LIGHT FUELS			
<b>Waste Code:</b> <b>Waste Description:</b>		232 POLYMERIC RESINS			
<b>Waste Code:</b> <b>Waste Description:</b>		241 HALOGENATED SOLVENTS			
<b>Waste Code:</b> <b>Waste Description:</b>		243 PCB'S			
<b>Waste Code:</b> <b>Waste Description:</b>		252 WASTE OILS & LUBRICANTS			
<b>Waste Code:</b> <b>Waste Description:</b>		263 ORGANIC LABORATORY CHEMICALS			
<b>Waste Code:</b> <b>Waste Description:</b>		267 ORGANIC ACIDS			
<b>Waste Code:</b> <b>Waste Description:</b>		270 OTHER SPECIFIED ORGANICS			

<u>6</u>	6 of 17	SE/146.4	189.9	<b>PENNWALT INC.</b> <b>LUCIDOL 575 GARRISON ROAD</b> <b>FORT ERIE ON L2A 1N5</b>	<b>GEN</b>
<b>Generator No.:</b> <b>Status:</b> <b>Approval Years:</b> <b>Contam. Facility:</b> <b>MHSW Facility:</b> <b>SIC Code:</b> <b>SIC Description:</b>	ON0223200  86,87,88,89,90  3712	     IND. ORGANIC CHEM.		<b>PO Box No.:</b> <b>Country:</b> <b>Choice of Contact:</b> <b>Co Admin:</b> <b>Phone No. Admin:</b>	
<b>--Details--</b>					
<b>Waste Code:</b> <b>Waste Description:</b>		212 ALIPHATIC SOLVENTS			
<b>Waste Code:</b> <b>Waste Description:</b>		221 LIGHT FUELS			
<b>Waste Code:</b> <b>Waste Description:</b>		232 POLYMERIC RESINS			
<b>Waste Code:</b> <b>Waste Description:</b>		241 HALOGENATED SOLVENTS			
<b>Waste Code:</b>		252			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Waste Description:</b>		WASTE OILS & LUBRICANTS			
<b>Waste Code:</b>		263			
<b>Waste Description:</b>		ORGANIC LABORATORY CHEMICALS			
<b>Waste Code:</b>		267			
<b>Waste Description:</b>		ORGANIC ACIDS			
<b>Waste Code:</b>		270			
<b>Waste Description:</b>		OTHER SPECIFIED ORGANICS			

<u>6</u>	7 of 17	SE/146.4	189.9	PENNWALT INC. (SEE & USE ON0139202) LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	GEN
<b>Generator No.:</b>	ON0223200			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	92,93,95,96,97,98			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	3712				
<b>SIC Description:</b>	IND. ORGANIC CHEM.				
<b>--Details--</b>					
<b>Waste Code:</b>	263				
<b>Waste Description:</b>	ORGANIC LABORATORY CHEMICALS				
<b>Waste Code:</b>	267				
<b>Waste Description:</b>	ORGANIC ACIDS				
<b>Waste Code:</b>	270				
<b>Waste Description:</b>	OTHER SPECIFIED ORGANICS				
<b>Waste Code:</b>	212				
<b>Waste Description:</b>	ALIPHATIC SOLVENTS				
<b>Waste Code:</b>	221				
<b>Waste Description:</b>	LIGHT FUELS				
<b>Waste Code:</b>	232				
<b>Waste Description:</b>	POLYMERIC RESINS				
<b>Waste Code:</b>	241				
<b>Waste Description:</b>	HALOGENATED SOLVENTS				
<b>Waste Code:</b>	243				
<b>Waste Description:</b>	PCB'S				
<b>Waste Code:</b>	252				
<b>Waste Description:</b>	WASTE OILS & LUBRICANTS				

<u>6</u>	8 of 17	SE/146.4	189.9	PENNWALT INC. 30-074 LUCIDOL 575 GARRISON ROAD FORT ERIE ON L2A 1N5	GEN
<b>Generator No.:</b>	ON0223200			<b>PO Box No.:</b>	
<b>Status:</b>				<b>Country:</b>	
<b>Approval Years:</b>	94			<b>Choice of Contact:</b>	
<b>Contam. Facility:</b>				<b>Co Admin:</b>	
<b>MHSW Facility:</b>				<b>Phone No. Admin:</b>	
<b>SIC Code:</b>	3712				



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>SIC Description:</b>		IND. ORGANIC CHEM.			
<b>--Details--</b>					
<b>Waste Code:</b>		212			
<b>Waste Description:</b>		ALIPHATIC SOLVENTS			
<b>Waste Code:</b>		221			
<b>Waste Description:</b>		LIGHT FUELS			
<b>Waste Code:</b>		232			
<b>Waste Description:</b>		POLYMERIC RESINS			
<b>Waste Code:</b>		241			
<b>Waste Description:</b>		HALOGENATED SOLVENTS			
<b>Waste Code:</b>		243			
<b>Waste Description:</b>		PCB'S			
<b>Waste Code:</b>		252			
<b>Waste Description:</b>		WASTE OILS & LUBRICANTS			
<b>Waste Code:</b>		263			
<b>Waste Description:</b>		ORGANIC LABORATORY CHEMICALS			
<b>Waste Code:</b>		267			
<b>Waste Description:</b>		ORGANIC ACIDS			
<b>Waste Code:</b>		270			
<b>Waste Description:</b>		OTHER SPECIFIED ORGANICS			

<a href="#">6</a>	9 of 17	SE/146.4	189.9	ATOCHEM CAN. LTD 575 GARRISON RD. FORT ERIE ON L2A 1N5	NPCB
<b>Company Code:</b>		F0554			
<b>Industry:</b>					
<b>Site Status:</b>					
<b>Transaction Date:</b>		1/29/1996			
<b>Inspection Date:</b>					
<b>--Details--</b>					
<b>Label:</b>					
<b>Serial No.:</b>					
<b>PCB Type/Code:</b>		Unknown concentration			
<b>Location:</b>					
<b>Item/State:</b>					
<b>No. of Items:</b>					
<b>Manufacturer:</b>					
<b>Status:</b>		Stored for Disposal			
<b>Contents:</b>		0.00 KG			
<b>Label:</b>					
<b>Serial No.:</b>					
<b>PCB Type/Code:</b>		Unknown concentration			
<b>Location:</b>					
<b>Item/State:</b>					
<b>No. of Items:</b>					
<b>Manufacturer:</b>					
<b>Status:</b>		Stored for Disposal			
<b>Contents:</b>		278.00 KG			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">6</a>	10 of 17	SE/146.4	189.9	ELF ATOCHEM CANADA INC. 575 GARRISON ROAD FORT ERIE ON L2A 1N5	NPCB
<b>Company Code:</b>		F0610			
<b>Industry:</b>					
<b>Site Status:</b>					
<b>Transaction Date:</b>		1/29/1996			
<b>Inspection Date:</b>					
<b>--Details--</b>					
<b>Label:</b>					
<b>Serial No.:</b>					
<b>PCB Type/Code:</b>		Askarel			
<b>Location:</b>					
<b>Item/State:</b>					
<b>No. of Items:</b>					
<b>Manufacturer:</b>					
<b>Status:</b>		Stored for Disposal			
<b>Contents:</b>		0.00 KG			
<b>Label:</b>					
<b>Serial No.:</b>					
<b>PCB Type/Code:</b>		High > 10,000 ppm			
<b>Location:</b>					
<b>Item/State:</b>					
<b>No. of Items:</b>					
<b>Manufacturer:</b>					
<b>Status:</b>		Stored for Disposal			
<b>Contents:</b>		900.00 KG			
<b>Label:</b>					
<b>Serial No.:</b>					
<b>PCB Type/Code:</b>		Askarel			
<b>Location:</b>					
<b>Item/State:</b>					
<b>No. of Items:</b>					
<b>Manufacturer:</b>					
<b>Status:</b>		Stored for Disposal			
<b>Contents:</b>		2132.00 KG			
<a href="#">6</a>	11 of 17	SE/146.4	189.9	ATOCHEM CAN. LTD 575 GARRISON RD. FORT ERIE ON L2A 1N5	OPCB
<b>Year:</b>		1995			
<b>Site Number:</b>		20388A258			
<b>Name Owner:</b>					
<b>Additional Site Information:</b>					
<b>--Details--</b>					
<b>Quantity:</b>		6.00			
<b>Address Site:</b>					
<b>Description:</b>		Weight of Liquid in Transformer with High Level PCBs (>1000 ppm) kg			
<b>Quantity:</b>		2.00			
<b>Address Site:</b>					
<b>Description:</b>		Number of Transformers with High Level PCBs (>1000 ppm)			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>6</u>	12 of 17	SE/146.4	189.9	ELF ATOCHEM CANADA INC. 575 GARRISON ROAD FORT ERIE ON L2A 1N5	OPCB
Year:		1995			
Site Number:		20393A042			
Name Owner:					
Additional Site Information:					
<b>--Details--</b>					
Quantity:		1.00			
Address Site:					
Description:		Number of Drums of Ballasts with High Level PCBs (>1000 ppm)			
Quantity:		200.00			
Address Site:					
Description:		Weight of Drums of Ballasts with High Level PCBs (>1000 ppm) kg			
Quantity:		2.00			
Address Site:					
Description:		Number of Capacitors with High Level PCBs (>1000 ppm)			
<u>6</u>	13 of 17	SE/146.4	189.9	Arkema Canada Inc. 575 Garrison Rd, Fort Erie, ON, L2A 1N5 Fort Erie ON L2A 1N5	RSC
Reg No:		1350		Prop. ID No:	
RSC Type:				Asmt Roll No:	
Current Property Use:				Intended Prop Use:	
District Office:		FORT ERIE		Nm of Qual. Person:	
Date Submitted:		Jan 12,2005		Stratified (Y/N):	
Date Ack:				Audit (Y/N):	
Date Returned:				Accuracy Estimate:	
Cert Date:				Mailing Address:	
Cert Prop Use No:				Telephone:	
Restoration Type:				Fax:	
Soil Type:				Email:	
Criteria:					
CPU Issued Sect 1686:					
Entire legal prop. (Y/N):					
Applicable Standards:					
Consultant:					
Filing Owner:					
Legal Desc:					
Measurement Method:					
Latitude & Latitude:					
UTM Coordinates:					
<u>6</u>	14 of 17	SE/146.4	189.9	PENNWALT LUCIDOL 575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SPL
Ref No:		1571		Site Address:	
Contaminant Name:				Site Conc:	
Contaminant Code:				Site Lot:	
Contaminant Limit 1:				Site County/District:	
Contam. Limit Freq 1:				Site Municipality:	
Contaminant UN No 1:				Site Postal Code:	
Contaminant Qty:				Sector Type:	
MOE Reported Dt:		3/23/1988		Source Type:	
Health/Env Conseq:				Receiving Medium:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Incident Dt:</b> 3/23/1988 <b>Incident Cause:</b> OTHER CONTAINER LEAK <b>Incident Event:</b> <b>Incident Reason:</b> OVERSTRESS/OVERPRESSURE <b>Incident Summary:</b> PENNWALT LUCIDOL-400 DIMETHYL PHTHALATE ESCAPE FROM 2 RUPTURED DRUMS <b>Receiving Env:</b> <b>Environment Impact:</b> <b>Nature of Impact:</b> <b>SAC Action Class:</b>					
<u>6</u>	15 of 17	SE/146.4	189.9	PENNWALT LUCIDOL FORT ERIE PLANT GARRISON ROAD FORT ERIE TOWN ON	575 SPL
<b>Ref No:</b> 3754 <b>Contaminant Name:</b> <b>Contaminant Code:</b> <b>Contaminant Limit 1:</b> <b>Contam. Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>MOE Reported Dt:</b> 5/16/1988 <b>Health/Env Conseq:</b> <b>Incident Dt:</b> 5/16/1988 <b>Incident Cause:</b> OTHER CONTAINER LEAK <b>Incident Event:</b> <b>Incident Reason:</b> GASKET/JOINT <b>Incident Summary:</b> LUCIDOL - 23L BENZOYL CHLORIDE TO GROUND <b>Site Address:</b> <b>Site Conc:</b> <b>Site Lot:</b> <b>Site County/District:</b> <b>Site Municipality:</b> 18401 <b>Site Postal Code:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Receiving Medium:</b> LAND <b>Receiving Env:</b> <b>Environment Impact:</b> NOT ANTICIPATED <b>Nature of Impact:</b> <b>SAC Action Class:</b>					
<u>6</u>	16 of 17	SE/146.4	189.9	PENNWALT LUCIDOL FORT ERIE PLANT GARRISON ROAD FORT ERIE TOWN ON	575 SPL
<b>Ref No:</b> 6164 <b>Contaminant Name:</b> <b>Contaminant Code:</b> <b>Contaminant Limit 1:</b> <b>Contam. Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>MOE Reported Dt:</b> 7/6/1988 <b>Health/Env Conseq:</b> <b>Incident Dt:</b> 7/5/1988 <b>Incident Cause:</b> OTHER CAUSE (N.O.S.) <b>Incident Event:</b> <b>Incident Reason:</b> FIRE/EXPLOSION <b>Incident Summary:</b> PENNWALT-LUCIDOL INC. IGNITION OF BENZOLYL PEROXIDE-5 MIN GAS TO ATM <b>Site Address:</b> <b>Site Conc:</b> <b>Site Lot:</b> <b>Site County/District:</b> <b>Site Municipality:</b> 18401 <b>Site Postal Code:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Receiving Medium:</b> AIR <b>Receiving Env:</b> <b>Environment Impact:</b> NOT ANTICIPATED <b>Nature of Impact:</b> <b>SAC Action Class:</b>					
<u>6</u>	17 of 17	SE/146.4	189.9	PENNWALT LUCIDOL 575 GARSON ROAD FORT ERIE PLANT 575 GARRISON ROAD FORT ERIE TOWN ON	SPL
<b>Ref No:</b> 8455 <b>Contaminant Name:</b> <b>Contaminant Code:</b> <b>Contaminant Limit 1:</b> <b>Contam. Limit Freq 1:</b> <b>Site Address:</b> <b>Site Conc:</b> <b>Site Lot:</b> <b>Site County/District:</b> <b>Site Municipality:</b> 18401					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>MOE Reported Dt:</b> 8/22/1988 <b>Health/Env Conseq:</b> <b>Incident Dt:</b> 8/22/1988 <b>Incident Cause:</b> OTHER CAUSE (N.O.S.) <b>Incident Event:</b> <b>Incident Reason:</b> ERROR <b>Incident Summary:</b> PENNWALT LUCIDOL - 225 L OF BRINE SPILLED TO DITCHAND ASPHALT.					
<b>Site Postal Code:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Receiving Medium:</b> LAND <b>Receiving Env:</b> <b>Environment Impact:</b> <b>Nature of Impact:</b> <b>SAC Action Class:</b>					
<u>7</u>	1 of 1	SW/171.6	189.9	The Regional Municipality of Niagara Hwy 3 and Thompson Rd Fort Erie ON	SPL
<b>Ref No:</b> 1250-5M2GJJ <b>Contaminant Name:</b> WASTE OIL/WATER (N.O.S.) <b>Contaminant Code:</b> 41 <b>Contaminant Limit 1:</b> <b>Contam. Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>MOE Reported Dt:</b> 4/28/2003 <b>Health/Env Conseq:</b> <b>Incident Dt:</b> 4/28/2003 <b>Incident Cause:</b> <b>Incident Event:</b> <b>Incident Reason:</b> <b>Incident Summary:</b> Oily water to c/b - washed down by fire dept					
<b>Site Address:</b> <b>Site Conc:</b> <b>Site Lot:</b> <b>Site County/District:</b> <b>Site Municipality:</b> Fort Erie <b>Site Postal Code:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Receiving Medium:</b> Water <b>Receiving Env:</b> <b>Environment Impact:</b> Not Anticipated <b>Nature of Impact:</b> Surface Water Pollution <b>SAC Action Class:</b>					
<u>8</u>	1 of 1	NE/177.9	191.9	MARY LISA MANDATORI SIMS AVE/TENTH STREET FORT ERIE TOWN ON	CA
<b>Certificate #:</b> 7-0697-96- <b>Application Year:</b> 96 <b>Issue Date:</b> 7/31/1996 <b>Approval Type:</b> Municipal water <b>Status:</b> Approved <b>Application Type:</b> <b>Client Name::</b> <b>Client Address::</b> <b>Client City::</b> <b>Client Postal Code::</b> <b>Project Description::</b> <b>Contaminants::</b> <b>Emission Control::</b>					
<u>9</u>	1 of 2	SW/182.0	189.9	DUNCAN JOHN CAMERON PH. I GARRISON RD. AND THOMPSON RD. FORT ERIE TOWN ON	CA
<b>Certificate #:</b> 3-0211-89- <b>Application Year:</b> 89 <b>Issue Date:</b> 2/28/1989 <b>Approval Type:</b> Municipal sewage <b>Status:</b> Approved <b>Application Type:</b> <b>Client Name::</b> <b>Client Address::</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Client City::</b> <b>Client Postal Code::</b> <b>Project Description::</b> <b>Contaminants::</b> <b>Emission Control::</b>					

<a href="#">9</a>	2 of 2	SW/182.0	189.9	Garrison Rd & Thompson Rd Fort Erie ON	EHS
<b>Postal Code:</b> <b>City:</b> <b>Address2:</b> <b>Address1:</b> <b>Provstate:</b> <b>Order No.:</b> 20050915014 <b>Addit. Info Ordered::</b> <b>Report Date:</b> 9/16/2005 <b>Report Type:</b> Basic Report <b>Search Radius (km):</b> 0.3					

<a href="#">10</a>	1 of 1	NNW/195.7	191.4	Fort Erie ON	WWIS
<b>Well ID:</b> 7118253 <b>Construction Date:</b> <b>Primary Water Use:</b> Other <b>Sec. Water Use:</b> <b>Final Well Status:</b> Test Hole <b>Water Type:</b> <b>Casing Material:</b> <b>Audit No:</b> M02456 <b>Tag:</b> A069655 <b>Construction Method:</b> <b>Elevation (m):</b> <b>Elevation Reliability:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b> <b>Pump Rate:</b> <b>Static Water Level:</b> <b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Clear/Cloudy:</b>					
<b>Data Entry Status:</b> <b>Data Src:</b> <b>Date Received:</b> 1/20/2009 <b>Selected Flag:</b> 1 <b>Abandonment Rec:</b> <b>Contractor:</b> 6607 <b>Form Version:</b> 5 <b>Owner:</b> <b>Street Name:</b> 1148 THOMPSON RD. <b>County:</b> NIAGARA (WELLAND) <b>Municipality:</b> FORT ERIE TOWN <b>Site Info:</b> <b>Lot:</b> <b>Concession:</b> <b>Concession Name:</b> <b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>					

**Bore Hole Information**

<b>Bore Hole ID:</b> 1001958618 <b>DP2BR:</b> <b>Code OB:</b> <b>Code OB Desc:</b> <b>Open Hole:</b> N <b>Elevation:</b> 192.740921 <b>Elevrc:</b> <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>					
<b>Spatial Status:</b> <b>Cluster Kind:</b> <b>UTMRC:</b> 4 <b>UTMRC Desc:</b> margin of error : 30 m - 100 m <b>Location Method:</b> wwr <b>Org CS:</b> UTM83 <b>Date Completed:</b> 6/9/2008					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1002737544			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		06			
<b>Most Common Material:</b>		SILT			
<b>Mat2:</b>		28			
<b>Other Materials:</b>		SAND			
<b>Mat3:</b>		05			
<b>Other Materials:</b>		CLAY			
<b>Formation Top Depth:</b>		0.00			
<b>Formation End Depth:</b>		0.09			
<b>Formation End Depth UOM:</b>		m			
<b>Formation ID:</b>		1002737545			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		06			
<b>Most Common Material:</b>		SILT			
<b>Mat2:</b>		05			
<b>Other Materials:</b>		CLAY			
<b>Mat3:</b>		34			
<b>Other Materials:</b>		TILL			
<b>Formation Top Depth:</b>		0.09			
<b>Formation End Depth:</b>		3.10			
<b>Formation End Depth UOM:</b>		m			
<b>Formation ID:</b>		1002737546			
<b>Layer:</b>		3			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		3.10			
<b>Formation End Depth:</b>		4.00			
<b>Formation End Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1002737548			
<b>Layer:</b>		1			
<b>Plug From:</b>		0.00			
<b>Plug To:</b>		0.30			
<b>Plug Depth UOM:</b>		m			
<b>Plug ID:</b>		1002737549			
<b>Layer:</b>		2			
<b>Plug From:</b>		0.30			
<b>Plug To:</b>		1.00			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1002737554			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Method Construction Code:</b>	6				
<b>Method Construction:</b>	Boring				
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>	1002737543				
<b>Casing No:</b>	0				
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>	1002737551				
<b>Layer:</b>	1				
<b>Material:</b>	5				
<b>Open Hole or Material:</b>	PLASTIC				
<b>Depth From:</b>	0.00				
<b>Depth To:</b>	0.10				
<b>Casing Diameter:</b>	5.90				
<b>Casing Diameter UOM:</b>	cm				
<b>Casing Depth UOM:</b>	m				
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>	1002737552				
<b>Layer:</b>	1				
<b>Slot:</b>	10				
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>	5				
<b>Screen Depth UOM:</b>	m				
<b>Screen Diameter UOM:</b>	cm				
<b>Screen Diameter:</b>	6.40				
<b><u>Water Details</u></b>					
<b>Water ID:</b>	1002737550				
<b>Layer:</b>	1				
<b>Kind Code:</b>	1				
<b>Kind:</b>	FRESH				
<b>Water Found Depth:</b>					
<b>Water Found Depth UOM:</b>	m				
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>	1002737547				
<b>Diameter:</b>	15.00				
<b>Depth From:</b>	0.00				
<b>Depth To:</b>	4.00				
<b>Hole Depth UOM:</b>	m				
<b>Hole Diameter UOM:</b>	cm				
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1002737534			<b>Spatial Status:</b>	
<b>DP2BR:</b>				<b>Cluster Kind:</b>	This is a record from cluster log sheet
<b>Code OB:</b>				<b>UTMRC:</b>	3
<b>Code OB Desc:</b>				<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Open Hole:</b>				<b>Location Method:</b>	wwr
<b>Elevation:</b>	192.476211			<b>Org CS:</b>	UTM83



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Elevrc:</b>				<b>Date Completed:</b>	6/9/2008
<b>Remarks:</b>					
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1002737538			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1002737537			
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		BORING			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1002737539			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1002737541			
<b>Layer:</b>					
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>					
<b>Depth To:</b>		1.00			
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1002737540			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>		1.00			
<b>Screen End Depth:</b>		4.00			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1002737542			
<b>Pump Set At:</b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Static Level:</b>		0.00			
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b>					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b>		m			
<b>Rate UOM:</b>					
<b>Water State After Test Code:</b>					
<b>Water State After Test:</b>					
<b>Pumping Test Method:</b>					
<b>Pumping Duration HR:</b>					
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1002737536			
<b>Diameter:</b>		15.00			
<b>Depth From:</b>					
<b>Depth To:</b>		4.00			
<b>Hole Depth UOM:</b>		m			
<b>Hole Diameter UOM:</b>		cm			
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>		1002737516		<b>Spatial Status:</b>	
<b>DP2BR:</b>				<b>Cluster Kind:</b>	This is a record from cluster log sheet
<b>Code OB:</b>				<b>UTMRC:</b>	3
<b>Code OB Desc:</b>				<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Open Hole:</b>				<b>Location Method:</b>	wwr
<b>Elevation:</b>		192.173995		<b>Org CS:</b>	UTM83
<b>Elevrc:</b>				<b>Date Completed:</b>	6/9/2008
<b>Remarks:</b>					
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1002737520			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1002737519			
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		BORING			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1002737521			
<b>Casing No:</b>		0			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elevation (m)</i>	<i>Site</i>	<i>DB</i>
<i>Comment:</i>					
<i>Alt Name:</i>					
<b><u>Construction Record - Casing</u></b>					
<i>Casing ID:</i>		1002737523			
<i>Layer:</i>					
<i>Material:</i>		5			
<i>Open Hole or Material:</i>		PLASTIC			
<i>Depth From:</i>					
<i>Depth To:</i>		0.90			
<i>Casing Diameter:</i>					
<i>Casing Diameter UOM:</i>					
<i>Casing Depth UOM:</i>		m			
<b><u>Construction Record - Screen</u></b>					
<i>Screen ID:</i>		1002737522			
<i>Layer:</i>					
<i>Slot:</i>					
<i>Screen Top Depth:</i>		0.90			
<i>Screen End Depth:</i>		3.90			
<i>Screen Material:</i>					
<i>Screen Depth UOM:</i>		m			
<i>Screen Diameter UOM:</i>					
<i>Screen Diameter:</i>					
<b><u>Results of Well Yield Testing</u></b>					
<i>Pump Test ID:</i>		1002737524			
<i>Pump Set At:</i>					
<i>Static Level:</i>		0.00			
<i>Final Level After Pumping:</i>					
<i>Recommended Pump Depth:</i>					
<i>Pumping Rate:</i>					
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>					
<i>Levels UOM:</i>		m			
<i>Rate UOM:</i>					
<i>Water State After Test Code:</i>					
<i>Water State After Test:</i>					
<i>Pumping Test Method:</i>					
<i>Pumping Duration HR:</i>					
<i>Pumping Duration MIN:</i>					
<i>Flowing:</i>					
<b><u>Hole Diameter</u></b>					
<i>Hole ID:</i>		1002737518			
<i>Diameter:</i>		15.00			
<i>Depth From:</i>					
<i>Depth To:</i>		3.90			
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			
<b><u>Bore Hole Information</u></b>					
<i>Bore Hole ID:</i>	1002737525			<i>Spatial Status:</i>	
<i>DP2BR:</i>				<i>Cluster Kind:</i>	This is a record from cluster log sheet
<i>Code OB:</i>				<i>UTMRC:</i>	3
<i>Code OB Desc:</i>				<i>UTMRC Desc:</i>	margin of error : 10 - 30 m
<i>Open Hole:</i>				<i>Location Method:</i>	wwr

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Elevation:</b>	191.963104			<b>Org CS:</b>	UTM83
<b>Elevrc:</b>				<b>Date Completed:</b>	6/9/2008
<b>Remarks:</b>					
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>	1002737529				
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>	1002737528				
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>	BORING				
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>	1002737530				
<b>Casing No:</b>	0				
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>	1002737532				
<b>Layer:</b>					
<b>Material:</b>	5				
<b>Open Hole or Material:</b>	PLASTIC				
<b>Depth From:</b>					
<b>Depth To:</b>	0.89				
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>	m				
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>	1002737531				
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>	0.89				
<b>Screen End Depth:</b>	3.80				
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>	m				
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>	1002737533				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Pump Set At:</b> <b>Static Level:</b> 0.00 <b>Final Level After Pumping:</b> <b>Recommended Pump Depth:</b> <b>Pumping Rate:</b> <b>Flowing Rate:</b> <b>Recommended Pump Rate:</b> <b>Levels UOM:</b> m <b>Rate UOM:</b> <b>Water State After Test Code:</b> <b>Water State After Test:</b> <b>Pumping Test Method:</b> <b>Pumping Duration HR:</b> <b>Pumping Duration MIN:</b> <b>Flowing:</b>					
<b>Hole Diameter</b>					
<b>Hole ID:</b> 1002737527 <b>Diameter:</b> 15.00 <b>Depth From:</b> <b>Depth To:</b> 3.80 <b>Hole Depth UOM:</b> m <b>Hole Diameter UOM:</b> cm					
<a href="#">11</a>	1 of 1	SSW/203.2	188.3	<b>TRANSPORT TRUCK</b> <b>655 GARRISON ROAD. MOTOR VEHICLE</b> <b>(OPERATING FLUID)</b> <b>FORT ERIE TOWN ON L2A 1N5</b>	SPL
<b>Ref No:</b> 176959 <b>Contaminant Name:</b> <b>Contaminant Code:</b> <b>Contaminant Limit 1:</b> <b>Contam. Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>MOE Reported Dt:</b> 1/24/2000 <b>Health/Env Conseq:</b> <b>Incident Dt:</b> 1/24/2000 <b>Incident Cause:</b> OTHER CONTAINER LEAK <b>Incident Event:</b> <b>Incident Reason:</b> ERROR <b>Incident Summary:</b> TRANSPORT TRUCK-UKN QTY DIESEL TO ROADWAY,SOME TOCB,PD,FD,WORKS.					
<b>Site Address:</b> <b>Site Conc:</b> <b>Site Lot:</b> <b>Site County/District:</b> <b>Site Municipality:</b> 18401 <b>Site Postal Code:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Receiving Medium:</b> LAND / WATER <b>Receiving Env:</b> <b>Environment Impact:</b> POSSIBLE <b>Nature of Impact:</b> Multi Media Pollution <b>SAC Action Class:</b>					
<a href="#">12</a>	1 of 1	SW/205.4	188.8	<b>DiMartile, T.A.</b>  <b>Town of Fort Erie ON</b>	OOGW
<b>Well ID:</b> <b>Well Status Type::</b> Natural Gas Well <b>Well Status Mode::</b> Abandoned Well <b>Status As Of::</b> October 2016 <b>Licence NO:</b> F015303 <b>W Class ID:</b> 2362 <b>UWI Code:</b> F015303 <b>Permit Date:</b> <b>Depth(m):</b> 293.52 <b>Depth Reached:</b> 12/15/1948 <b>Well Name::</b> Thomas DiMartile #2 <b>Status Type Desc:</b> A WELL PRESENTLY OR FORMERLY USED TO PRODUCE NATURAL GAS FROM A RESERVOIR					
<b>Lot::</b> <b>Conc:</b> <b>Block::</b> <b>Latitude:</b> 42.90489917 <b>Longitude:</b> -78.94010389 <b>County:</b> Welland <b>Target::</b> SILURIAN <b>Classification::</b> <b>Capped Date:</b> 7/16/1955 <b>Well Compl ID:</b> 26990					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Status Mode Desc:</b>		A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED			
<b>Target Desc:</b>		TARGETS WITHIN THE CLINTON AND CATARACT (OR MEDINA) GROUPS (WHIRLPOOL TO IRONDEQUOIT FORMATIONS INCLUSIVE)			
<b>Classification Desc:</b>					
<b>--Details--</b>					
<b>Elevation / Top (m):</b>	-79.61 / 267.61			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Cabot Head
<b>Elevation / Top (m):</b>	-52.79 / 240.79			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Irondequoit
<b>Elevation / Top (m):</b>	-85.71 / 273.71			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Whirlpool
<b>Elevation / Top (m):</b>	-61.33 / 249.33			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Grimsby
<b>Elevation / Top (m):</b>	187.7 / 0.3			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Drift
<b>Elevation / Top (m):</b>	-61.33 / 249.33			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Grimsby
<b>Elevation / Top (m):</b>	50.23 / 137.77			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Guelph
<b>Elevation / Top (m):</b>	-90.28 / 278.28			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Queenston
<b>Elevation / Top (m):</b>	-25.97 / 213.97			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Rochester
<b>Elevation / Top (m):</b>	-52.79 / 240.79			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Irondequoit
<b>Elevation / Top (m):</b>	164.84 / 23.16			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	F Unit
<b>Elevation / Top (m):</b>	180.08 / 7.92			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Bois Blanc
<b>Elevation / Top (m):</b>	-79.61 / 267.61			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Cabot Head
<b>Elevation / Top (m):</b>	187.7 / 0.3			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Drift
<b>Elevation / Top (m):</b>	50.23 / 137.77			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Guelph

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<i>Elevation / Top (m):</i>	-90.28 / 278.28			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	MNRF
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Queenston
<i>Elevation / Top (m):</i>	164.84 / 23.16			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	MNRF
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	F Unit
<i>Elevation / Top (m):</i>	-85.71 / 273.71			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	MNRF
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Whirlpool
<i>Elevation / Top (m):</i>	180.08 / 7.92			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	FORM 7
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Bois Blanc
<i>Elevation / Top (m):</i>	-25.97 / 213.97			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	MNRF
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Rochester
<i>Elevation / Top (m):</i>	n/a / 28.96			<i>Geology/Water:</i>	Water
<i>Type of Water:</i>	Fresh			<i>Source:</i>	n/a
<i>Static Level (m):</i>	18.29			<i>Geology Formation:</i>	F Unit
<i>Elevation / Top (m):</i>	n/a / 182.88			<i>Geology/Water:</i>	Water
<i>Type of Water:</i>	Sulphur			<i>Source:</i>	n/a
<i>Static Level (m):</i>	18.29			<i>Geology Formation:</i>	Guelph
<i>Elevation / Top (m):</i>	180.08 / 7.92			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	MNRF
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Top of Bedrock
<i>Elevation / Top (m):</i>	180.08 / 7.92			<i>Geology/Water:</i>	Geology
<i>Type of Water:</i>	n/a			<i>Source:</i>	FORM 7
<i>Static Level (m):</i>	n/a			<i>Geology Formation:</i>	Top of Bedrock

[13](#) 1 of 1 NNW/210.9 191.1 Oakes Drive East EHS  
Town of Fort Erie ON

Postal Code:  
City:  
Address2:  
Address1:  
Provstate:  
Order No.: 20070619021  
Addit. Info Ordered:: Fire Insur. Maps And /or Site Plans  
Report Date: 6/28/2007  
Report Type: CAN - Complete Report  
Search Radius (km): 0.25

[14](#) 1 of 1 NW/227.0 190.9 1148 Thompson Road EHS  
Fort Erie ON L2A 6A8

Postal Code:  
City:  
Address2:  
Address1:  
Provstate:  
Order No.: 20071003014  
Addit. Info Ordered:: Fire Insur. Maps And /or Site Plans; Title Search; Aerials Photos  
Report Date: 10/12/2007

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Report Type:</b>		CAN - Complete Report			
<b>Search Radius (km):</b>		0.25			
<a href="#"><u>15</u></a>	1 of 1	<b>WNW/227.7</b>	<b>190.9</b>	<b>1135 Thompson Road Fort Erie ON L2A 6T7</b>	<b>EHS</b>
<b>Postal Code:</b>					
<b>City:</b>					
<b>Address2:</b>					
<b>Address1:</b>					
<b>Provstate:</b>					
<b>Order No.:</b>		20120604021			
<b>Addit. Info Ordered::</b>					
<b>Report Date:</b>		08-JUN-12			
<b>Report Type:</b>		Custom Report			
<b>Search Radius (km):</b>		.25			
<a href="#"><u>16</u></a>	1 of 1	<b>ESE/230.9</b>	<b>190.2</b>	<b>570 Garrison Rd Fort Erie ON L2A 1N4</b>	<b>EHS</b>
<b>Postal Code:</b>					
<b>City:</b>					
<b>Address2:</b>					
<b>Address1:</b>					
<b>Provstate:</b>					
<b>Order No.:</b>		20130204007			
<b>Addit. Info Ordered::</b>		Fire Insur. Maps and/or Site Plans			
<b>Report Date:</b>		05-FEB-13			
<b>Report Type:</b>		Standard Report			
<b>Search Radius (km):</b>		.25			
<a href="#"><u>17</u></a>	1 of 2	<b>NNW/241.2</b>	<b>191.9</b>	<b>COMMUNITY LIVING - FORT ERIE OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON</b>	<b>CA</b>
<b>Certificate #:</b>		7-1147-95-006			
<b>Application Year:</b>		95			
<b>Issue Date:</b>		12/4/95			
<b>Approval Type:</b>		Municipal water			
<b>Status:</b>		Approved			
<b>Application Type:</b>					
<b>Client Name::</b>					
<b>Client Address::</b>					
<b>Client City::</b>					
<b>Client Postal Code::</b>					
<b>Project Description::</b>					
<b>Contaminants::</b>					
<b>Emission Control::</b>					
<a href="#"><u>17</u></a>	2 of 2	<b>NNW/241.2</b>	<b>191.9</b>	<b>COMMUNITY LIVING - FORT ERIE OAKES DR/TAYLOR AVE. FORT ERIE TOWN ON</b>	<b>CA</b>
<b>Certificate #:</b>		3-1628-95-006			
<b>Application Year:</b>		95			
<b>Issue Date:</b>		12/4/95			
<b>Approval Type:</b>		Municipal sewage			
<b>Status:</b>		Approved			
<b>Application Type:</b>					



Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Client Name::</b> <b>Client Address::</b> <b>Client City::</b> <b>Client Postal Code::</b> <b>Project Description::</b> <b>Contaminants::</b> <b>Emission Control::</b>					

<a href="#">18</a>	1 of 1	SE/246.7	189.1	DiMartile, T.A.	OOGW
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Town of Fort Erie ON

<b>Well ID:</b>		<b>Lot::</b>	
<b>Well Status Type::</b>	Dry Hole	<b>Conc:</b>	
<b>Well Status Mode::</b>	Abandoned Well	<b>Block::</b>	
<b>Status As Of::</b>	October 2016	<b>Latitude:</b>	42.90442944
<b>Licence NO:</b>	F015301	<b>Longitude:</b>	-78.93679
<b>W Class ID:</b>	2362	<b>County:</b>	Welland
<b>UWI Code:</b>	F015301	<b>Target::</b>	SILURIAN
<b>Permit Date:</b>		<b>Classification::</b>	
<b>Depth(m):</b>	273.71	<b>Capped Date:</b>	9/24/1948
<b>Depth Reached:</b>	9/24/1948	<b>Well Compl ID:</b>	26988
<b>Well Name::</b>	Thomas DiMartile #1		
<b>Status Type Desc:</b>	A WELL CLASSED AS EXPLORATORY OR DEVELOPMENT IN WHICH NO HYDROCARBONS HAVE BEEN ENCOUNTERED		
<b>Status Mode Desc:</b>	A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED		
<b>Target Desc:</b>	TARGETS WITHIN THE CLINTON AND CATARACT (OR MEDINA) GROUPS (WHIRLPOOL TO IRONDEQUOIT FORMATIONS INCLUSIVE)		
<b>Classification Desc:</b>			

--Details--

<b>Elevation / Top (m):</b>	-45.39 / 234.7	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Irondequoit
<b>Elevation / Top (m):</b>	-78.92 / 268.22	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Cabot Head
<b>Elevation / Top (m):</b>	178.94 / 10.36	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Top of Bedrock
<b>Elevation / Top (m):</b>	189 / 0.3	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Drift
<b>Elevation / Top (m):</b>	-8.81 / 198.12	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Rochester
<b>Elevation / Top (m):</b>	189 / 0.3	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Drift
<b>Elevation / Top (m):</b>	-56.97 / 246.28	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Grimsby
<b>Elevation / Top (m):</b>	178.94 / 10.36	<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a	<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a	<b>Geology Formation:</b>	Top of Bedrock

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	178.94 / 10.36 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology FORM 7 Bois Blanc
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	-45.39 / 234.7 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology MNRF Irondequoit
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	164.92 / 24.38 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology FORM 7 F Unit
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	164.92 / 24.38 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology MNRF F Unit
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	65.86 / 123.44 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology MNRF Guelph
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	65.86 / 123.44 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology FORM 7 Guelph
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	178.94 / 10.36 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology MNRF Bois Blanc
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	n/a / 9.14 Fresh -0.3			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Water n/a Drift
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	-78.92 / 268.22 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology FORM 7 Cabot Head
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	-56.97 / 246.28 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology FORM 7 Grimsby
<b>Elevation / Top (m):</b> <b>Type of Water:</b> <b>Static Level (m):</b>	-8.81 / 198.12 n/a n/a			<b>Geology/Water:</b> <b>Source:</b> <b>Geology Formation:</b>	Geology MNRF Rochester

# Unplottable Summary

Total: 13 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	ERIEBRAM HOLDINGS LIMITED	COMM. DEVELOP. GARRISON RD.	FORT ERIE TOWN ON	
CA	ERIEBRAM HOLDINGS LIMITED	COMM. DEVELOP. GARRISON RD.	FORT ERIE TOWN ON	
CA	The Corporation of the Town of Fort Erie	Garrison Rd	Fort Erie ON	
CA	FORT ERIE FORD MERCURY SALES LTD	SOUTH SIDE OF GARRISON ROAD	FORT ERIE TOWN ON	
CA	The Regional Municipality of Niagara	Thompson Rd	Fort Erie ON	
CA	The Regional Municipality of Niagara	Thompson Rd	Fort Erie ON	
CA	The Corporation of the Town of Fort Erie	Garrison Road	Fort Erie ON	
ECA	The Corporation of the Town of Fort Erie	Garrison Road	Fort Erie ON	L2A 5C9
NEES	PENNWALT LUCIDOL		FORT ERIE TOWN ON	
NEES	PENNWALT LUCIDOL		FORT ERIE TOWN ON	
NEES	PENNWALT LUCIDOL		FORT ERIE TOWN ON	
NEES	PENNWALT LUCIDOL		FORT ERIE TOWN ON	
WWIS		lot 1	ON	

# Unplottable Report

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**Site:** *ERIEBRAM HOLDINGS LIMITED  
COMM. DEVELOP. GARRISON RD. FORT ERIE TOWN ON*

**Database:**  
*CA*

**Certificate #:** 3-1734-89-  
**Application Year:** 89  
**Issue Date:** 9/12/1989  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** *ERIEBRAM HOLDINGS LIMITED  
COMM. DEVELOP. GARRISON RD. FORT ERIE TOWN ON*

**Database:**  
*CA*

**Certificate #:** 7-1429-89-  
**Application Year:** 89  
**Issue Date:** 9/12/1989  
**Approval Type:** Municipal water  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** *The Corporation of the Town of Fort Erie  
Garrison Rd Fort Erie ON*

**Database:**  
*CA*

**Certificate #:** 5042-7C2J23  
**Application Year:** 2008  
**Issue Date:** 2/21/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** *FORT ERIE FORD MERCURY SALES LTD  
SOUTH SIDE OF GARRISON ROAD FORT ERIE TOWN ON*

**Database:**  
*CA*

**Certificate #:** 8-2022-93-  
**Application Year:** 93

**Issue Date:** 3/17/1993  
**Approval Type:** Industrial air  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::** EXH. SYS. FOR PAINT SPRAY BOOTH  
**Contaminants::** Propylene Glycolmonomethyl Ether Acetate,P.M.Ace., Toluene(Pentyl Methane)(Methyl Benzene), Acetone, Xylene, Methyl Ethyl Ketone (Butanone)  
**Emission Control::** Panel Filter

---

**Site:** *The Regional Municipality of Niagara  
Thompson Rd Fort Erie ON*

**Database:**  
[CA](#)

**Certificate #:** 5373-85NKHD  
**Application Year:** 2010  
**Issue Date:** 5/21/2010  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** *The Regional Municipality of Niagara  
Thompson Rd Fort Erie ON*

**Database:**  
[CA](#)

**Certificate #:** 0306-7SXMBZ  
**Application Year:** 2009  
**Issue Date:** 6/15/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** *The Corporation of the Town of Fort Erie  
Garrison Road Fort Erie ON*

**Database:**  
[CA](#)

**Certificate #:** 0904-8LVSAB  
**Application Year:** 2011  
**Issue Date:** 9/27/2011  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** The Corporation of the Town of Fort Erie  
Garrison Road Fort Erie ON L2A 5C9

**Database:**  
ECA

**Project Type:** Municipal and Private Sewage Works  
**Approval No:** 0904-8LVSAB  
**Date:** 2011-09-27  
**Status:** Approved  
**Longitude:** 0.0000000000000000  
**Latitude:** 0.0000000000000000  
**Record Type:** ECA  
**PDF URL:** <https://www.accessenvironment.ene.gov.on.ca/instruments/9582-8LRNKP-14.pdf>  
**Full Address:**

---

**Site:** PENNWALT LUCIDOL  
FORT ERIE TOWN ON

**Database:**  
NEES

**Incident Date:** 8/22/88  
**Contaminant:** BRINE  
**Amount::** 0  
**Units::** Other  
**Quantity::**  
**Cause::** Error  
**Source::** Unknown  
**Reason::**  
**Sector::** Chemical

---

**Site:** PENNWALT LUCIDOL  
FORT ERIE TOWN ON

**Database:**  
NEES

**Incident Date:** 5/16/88  
**Contaminant:** BENZOYL CHLORIDE  
**Amount::** 0  
**Units::** Container Leak  
**Quantity::**  
**Cause::** Gasket, Joint  
**Source::** Unknown  
**Reason::**  
**Sector::** Chemical

---

**Site:** PENNWALT LUCIDOL  
FORT ERIE TOWN ON

**Database:**  
NEES

**Incident Date:** 7/5/88  
**Contaminant:** DIBENZOYL PEROXIDE  
**Amount::** 0  
**Units::** Other  
**Quantity::**  
**Cause::** Fire, Explosion  
**Source::** Unknown  
**Reason::**  
**Sector::** Chemical

---

**Site:** PENNWALT LUCIDOL  
FORT ERIE TOWN ON

**Database:**  
NEES

**Incident Date:** 3/23/88  
**Contaminant:** DIMETHYL TEREPHTHALATE  
**Amount::** 0  
**Units::** Container Leak  
**Quantity::**  
**Cause::** Overstress  
**Source::** Unknown  
**Reason::**

**Site:**  
lot 1 ON**Database:**  
WWIS

**Well ID:** 6603469  
**Construction Date:**  
**Primary Water Use:** Domestic  
**Sec. Water Use:**  
**Final Well Status:** Water Supply  
**Water Type:**  
**Casing Material:**  
**Audit No:**  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 12/11/1981  
**Selected Flag:** 1  
**Abandonment Rec:**  
**Contractor:** 1918  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** NIAGARA (WELLAND)  
**Municipality:** FORT ERIE TOWN (BERTIE)  
**Site Info:**  
**Lot:** 001  
**Concession:**  
**Concession Name:**  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10463081  
**DP2BR:** 6  
**Code OB:** r  
**Code OB Desc:** Bedrock  
**Open Hole:**  
**Elevation:**  
**Elevrc:**  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Spatial Status:**  
**Cluster Kind:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na  
**Org CS:**  
**Date Completed:** 8/14/1979

**Overburden and Bedrock****Materials Interval**

**Formation ID:** 932598368  
**Layer:** 1  
**Color:** 8  
**General Color:** BLACK  
**Mat1:** 02  
**Most Common Material:** TOPSOIL  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 0.00  
**Formation End Depth:** 6.00  
**Formation End Depth UOM:** ft

**Formation ID:** 932598369  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 15  
**Most Common Material:** LIMESTONE  
**Mat2:**

**Other Materials:**

**Mat3:**

**Other Materials:**

**Formation Top Depth:** 6.00  
**Formation End Depth:** 44.00  
**Formation End Depth UOM:** ft

**Method of Construction & Well Use**

**Method Construction ID:** 966603469  
**Method Construction Code:** 0  
**Method Construction:** Not Known  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 11011651  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930752400  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:**  
**Depth To:** 6.00  
**Casing Diameter:** 6.00  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Casing ID:** 930752401  
**Layer:** 2  
**Material:** 4  
**Open Hole or Material:** OPEN HOLE  
**Depth From:**  
**Depth To:** 41.00  
**Casing Diameter:** 6.00  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 996603469  
**Pump Set At:**  
**Static Level:** 20.00  
**Final Level After Pumping:**  
**Recommended Pump Depth:** 40.00  
**Pumping Rate:** 5.00  
**Flowing Rate:**  
**Recommended Pump Rate:** 5.00  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 2  
**Pumping Duration HR:** 2  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 935129783



**Test Type:**  
**Test Duration:** 60  
**Test Level:** 36.00  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 933950728  
**Layer:** 1  
**Kind Code:** 3  
**Kind:** SULPHUR  
**Water Found Depth:** 41.00  
**Water Found Depth UOM:** ft

## 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 2016**

### **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-Nov 2016**

### **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**

### **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-May 2017**

### **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 2014**

### **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\***

**Commercial Fuel Oil Tanks:**

Provincial **CFOT**

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

**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-May 2017**

**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 31, 2012**

**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 2017**

**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 2017**

**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-Aug 2015**

**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-Jul 2017**

**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 2017**

**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-Jul 2017**

**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-Aug 2016**

**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**

**List of TSSA Expired Facilities:**

Provincial **EXP**

List of facilities with removed tanks which were once 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 automatically fall under the expired facilities inventory held by TSSA.

**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-Mar 2017**

**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-Apr 2015**

**Fuel Storage Tank:**

Provincial **FST**

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

**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-Jun 2017**

**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 2015**

**TSSA Historic Incidents:**

Provincial **HINC**

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

**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**

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, 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. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

**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: Dec 31, 2013**

**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-Feb 2017**

**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, 2014**

**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-Aug 2010**

**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 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 2017**

**National Energy Board Wells:**

Federal

NEBW

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: 1993-2014**

**Oil and Gas Wells:**

Private

**OGW**

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](http://www.nickles.com).

**Government Publication Date: 1988-May 2017**

**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-Oct 2016**

**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 2017**

**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**

**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-Oct 2016**

**TSSA Pipeline Incidents:**

Provincial PINC

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

**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 2017**

**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-Aug 2017**

**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-May 2017**

**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-Jun 2017**



**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: 1990-2014**

**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-Jan 2015**

**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.

**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: Jul 31, 2017**

**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: Mar 31, 2017**

# 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 V**  
**GOVERNMENT / REGULATORY FILE INFORMATION**

## Siratha Chhan

---

**From:** Siratha Chhan  
**Sent:** October-02-17 3:06 PM  
**To:** 'ian.hagman@ontario.ca'  
**Subject:** CB1041.00 - MNR - Request for Info

**Re: Request for Information  
644 Garrison Road, Fort Erie**

Dear Mr. Hagman:

Terrapex Environmental Ltd. has been authorized by Bensimon Development Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 644 Garrison Road, in Fort Erie.

Can you please advise whether the site is located within 1 km of any of the potentially sensitive areas listed below, and if so, please advise where they are relative to the site:

- environmentally significant areas;
- nature reserves;
- areas of natural or scientific interest;
- fish habitats;
- floodplains;
- endangered or vulnerable species habitat;
- provincial park;
- significant wetlands.

Also, any information your office may have on file for the vicinity of the site regarding spills, soil or groundwater contamination, site remediations, known former waste disposal sites, or other issues or complaints of an environmental nature would be very much appreciated.

If you have any questions, or require further information, please call. Thank you in advance for your time and consideration.

Sincerely,

Siratha Chhan.

## Siratha Chhan

---

**From:** Siratha Chhan  
**Sent:** October-02-17 3:16 PM  
**To:** 'info@npca.ca'  
**Subject:** CB1041.00 - NPCA - Request for Info

Dear Sir or Madam:

Terrapex Environmental Ltd. has been authorized by the Bensimon Development Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 644 Garrison Road, in Fort Erie.

Can you please advise whether the site is located within 1 km of any of the potentially sensitive areas listed below, and if so, please advise where they are relative to the site:

- environmentally significant areas;
- nature reserves;
- areas of natural or scientific interest;
- fish habitats;
- floodplains;
- endangered or vulnerable species habitat;
- provincial park;
- significant wetlands.

Also, any information your office may have on file for the vicinity of the site regarding spills, soil or groundwater contamination, site remediations, known former waste disposal sites, or other issues or complaints of an environmental nature would be very much appreciated.

If you have any questions, or require further information, please call. Thank you in advance for your time and consideration.

Sincerely,

Siratha Chhan

## Environmental Record Search

Date of Report: Wednesday, November 08, 2017

Subject: 644 Garrison Rd., Fort Erie

<b>Water and Wastewater Services Search Completed By:</b>								
Full name: CRAIG BURNS	Department: Public Works	Division: W&WW						
Email: craig.burns@niagararegion.ca	Phone: 905 685-4225	Extension: 3309						
<p><b>Search Type:</b> Any documentation related to environmental concerns, orders, spills, inspections or permits pertaining to the subject property.</p> <p><b>Files Searched (E.05):</b></p> <table> <tr> <td>FORT ERIE MISC FILES</td> <td>1991 - Present.</td> </tr> <tr> <td>ACTION REQUEST/VIOLATION NOTICE</td> <td>1985 - Present</td> </tr> <tr> <td>INCIDENT REPORTS</td> <td>2001 - Present</td> </tr> </table> <p><b>Results of Search:</b> <u>No documentation has been found that references the subject property.</u></p> <p><b>Comments:</b></p> <p><b>Disclaimer:</b> The files searched were limited to those shown above. Niagara Region makes no representation as to compliance or non-compliance with any other legislation resulting from this disclosure.</p>			FORT ERIE MISC FILES	1991 - Present.	ACTION REQUEST/VIOLATION NOTICE	1985 - Present	INCIDENT REPORTS	2001 - Present
FORT ERIE MISC FILES	1991 - Present.							
ACTION REQUEST/VIOLATION NOTICE	1985 - Present							
INCIDENT REPORTS	2001 - Present							

## Siratha Chhan

---

**From:** Ruchi Chohan <rchohan@tssa.org> on behalf of Public Information Services <publicinformationsservices@tssa.org>  
**Sent:** October-02-17 2:55 PM  
**To:** Siratha Chhan  
**Subject:** RE: CB1041.00 - TSSA Request for Info

Hello Siratha,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail ([publicinformationsservices@tssa.org](mailto:publicinformationsservices@tssa.org)) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thank you and have a great day,

Ruchi

---

**From:** Siratha Chhan [mailto:s.chhan@terrapex.com]  
**Sent:** Monday, October 02, 2017 1:52 PM  
**To:** Public Information Services <publicinformationsservices@tssa.org>  
**Subject:** CB1041.00 - TSSA Request for Info

Technical Standards and Safety Authority  
Fuels Safety Division  
3300 Bloor St. West  
14th Floor, Centre Tower  
Toronto, Ontario  
M8X 2X4

Re: Request for Files Search

644 Garrison Road  
Fort Erie, Ontario

Terrapex Environmental Ltd. has been authorized by Bensimon Development Ltd. (Bensimon) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 644 Garrison Road, Fort Erie, Ontario (hereafter known as "the site").

Terrapex is requesting any information on-file pertaining to the property located at this address.

Thank you in advance for your time and attention to this matter.

If you have any questions or require further information, please contact me at [\(416\) 209-9562](tel:4162099562).

Sincerely,

Siratha Chhan

Siratha Chhan, Dipl., EP  
Environmental Technologist



---

Tel: 905-632-5939 ext. 263  
Fax: 905-632-6793  
Cell: 416-209-9562  
Email: [s.chhan@terrapex.com](mailto:s.chhan@terrapex.com)

920 Brant Street Unit 16  
Burlington, Ontario  
L7R 4J1

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This message, including any attachments, is confidential, may contain privileged information, and is intended solely for the addressee. Any distribution, use or copying of this email or the information it contains by other than an intended recipient is unauthorized and prohibited. If you are not the intended recipient of this message, please advise the sender immediately and permanently delete this message and attachments. Thank you for your attention and cooperation.

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.



Ministry of the Environment  
and Climate Change

Ministère de l'Environnement et de  
l'Action en matière de changement  
climatique



Freedom of Information and  
Protection of Privacy Office

Bureau de l'accès à l'information et  
de la protection de la vie privée

12<sup>th</sup> Floor  
40 St. Clair Avenue West  
Toronto ON M4V 1M2  
Tel: (416) 314-4075  
Fax: (416) 314-4285

12<sup>e</sup> étage  
40, avenue St. Clair ouest  
Toronto ON M4V 1M2  
Tél.: (416) 314-4075  
Télééc.: (416) 314-4285

November 6, 2017

Siratha Chhan  
Terrapex Environmental Ltd  
16 - 920 Brant St  
Burlington, ON L7R 4J1

Dear Siratha Chhan:

**RE: *Freedom of Information and Protection of Privacy Act* Request  
Our File #: A-2017-07008, Your Reference #: CB1041.00**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 644 Garrison Road, Fort Erie.

After a thorough search of the Ministry's Niagara District Office, West-Central Regional Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as personal information have been removed to protect privacy (Section 21(1)(f) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

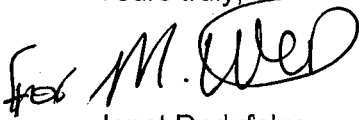
• Search Time 1 hour @ \$30/hour	\$ 30.00
• Copying 52 pages @ \$0.20/page	\$ 10.40
• Delivery	3.00
• <b>Total</b>	<b>\$ 43.40</b>
• Deposit Received	- 30.00
• <b>BALANCE WAIVED (NOT REQUIRED)</b>	<b>\$ 13.40</b>

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. **As EAB may have filed approval records by the proponent of the approval (current/former property owner/tenants of the property) rather than the site address, you will be required to provide all current/former property owner/tenant names for the search years you requested in your application when submitting payment for this search.** Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in black ink, appearing to read "Janet Dadufalza". The signature is stylized and includes a small mark to the left that looks like "for".

Janet Dadufalza  
FOI Manager

Attachments



November 6, 1987

Red Star Express Lines of Ontario  
644 Carrison Rd.  
Fort Erie, Ont.  
L2A 1N5

Attn: Mr. A. Pisaric  
Supv. of Maint.

Dear Mr. Pisaric:

RE: Acknowledgement of Subject Waste Registration

As prescribed by Section 15(4) of Ontario Regulation 309, this letter acknowledges receipt of your Generator Registration Report(s) dated February 21, 1986 and further correspondence as outlined in Schedule "B" for the following site:

644 Carrison Rd.  
Fort Erie, Ont.

The Generator Registration Number assigned to your company at this site is:

ON0147401

Please note that this Generator Registration Number must be used only in conjunction with the site for which it was issued.

This acknowledgement letter supersedes the previous acknowledgement letter dated November 10, 1986 for this site.

Please ensure that the company name shown on this letter is complete and accurate. This would be the corporate name or, if a partnership or proprietorship, the name of the principal(s). If you intend to carry on business under a separate name or style, this should also be entered. If there is a discrepancy, it is your responsibility to re-register providing us with your complete and accurate company name.

A list of the waste stream(s) covered by this acknowledgement is attached to this letter as Schedule "A".

For off-site disposal of subject wastes, the waste number(s) describing the waste stream(s) in Schedule "A"

and the Generator Registration Number must be entered on manifest forms for each waste transaction after you have received this generator registration document. A copy of an example manifest form is attached for your information.

For on-site disposal of subject wastes covered by this acknowledgement, including on-site incineration, landfilling and discharges to sanitary sewers, every generator shall retain records for a period of at least two years. These records shall include the generator registration number, waste name(s), waste number(s), quantity and disposition of the waste(s).

For off-site disposal of any registerable solid wastes shown in Schedule "A" (waste classes ending in the letter "N"), manifesting is not required at this time. These wastes can be disposed of at most approved municipal landfilling sites.

The selection of accurate waste classes is the responsibility of each waste generator. This acknowledgement must not be considered as a confirmation of the accuracy of information submitted by you. Based on the information you have provided, the waste class(es) that has (have) been selected appear(s) to be correct. If, due to new information or re-assessment of information submitted, you feel your waste is inappropriately classified, you should apply for a revision to your registration using the Generator Registration Report, Form 2. Should the waste class(es) that you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 309.

Your Generator Registration Report has now been forwarded to the District Office of this Ministry that is closest to your generating site. The District Office will be conducting a post-registration audit and may be contacting you for additional information or may be conducting site visits.

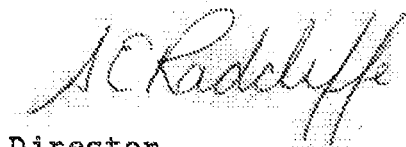
It is important to note that under Section 15(4) of Ontario Regulation 309, a new Generator Registration Report must be submitted to the Ministry within fifteen (15) days for any of the following reasons:

1. If the name, address or telephone number of your company or waste generating site changes.
2. If the description, the waste class or physical or chemical characteristics of your registered wastes change(s).
3. If you generate a hazardous or liquid industrial waste that has not been registered with the Ministry.

If the quantity of registered wastes or your carrier or receiver changes, automatic re-registration is not required. However, in order to update our file, we may periodically request additional information when we observe or suspect a significant change as compared to the most recent information submitted by you for registration purposes.

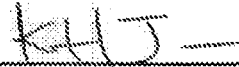
Should you have any questions concerning generator registration or manifesting requirements, please contact the Waste Management Branch Reviewer identified below at 323-5208.

Yours truly,



Director  
Regulation 309, R.R.O., 1980  
Environmental Protection Act

Waste Management Branch Reviewer:

  
K.H. Jun

EAS/mgm

Enclosure

LE 03 07

ADDITIONAL COMMENTS:

.../4

SCHEDULE "A"

This attached Schedule forms part of the acknowledgement of generator registration for the facility and site identified by Generator Registration Number ON0147401, dated at Toronto, this 6th day of November, 1987.

Waste Stream	Waste Class
1. Naphtha petroleum (non-halogenated)	213I
2. Oily water from the floor drain in the shop	251L
3. Waste motor oil	252L

Waste Management Branch Reviewer:

K.H. Jun  
K.H. Jun

3/28.73

.../5

Ministry  
of the  
Environment

125 Resources Road  
Etobicoke ON M9P 3V6

Ministère  
de  
l'Environnement

125, chemin Resources  
Etobicoke ON M9P 3V6

MINI... OF THE  
ENVIRON...  
DIST...



Ontario

FE GA 700

'00 DEC 12 PM 27

391 St. Catharines, Ont.

December 8, 2000

**MEMORANDUM**

**TO:** District Managers  
All Regions

**FROM:** Anna Gortva  
Acting Supervisor, HWIS  
Environmental Monitoring and Reporting Branch

**RE:** Emergency/Spill Generators (October 1 - October 31, 2000)

I have enclosed copies of the emergency/spill manifests issued by your district office. To date, we have not received the corresponding Emergency Waste Shipment Authorization forms. Manifests that have been matched with Authorization forms are not included. Also included, are photocopies of Emergency Authorization forms without manifest numbers. In order that we may verify the legitimacy of these generator numbers and ensure better manifest accuracy, please review and direct the matching authorization forms and missing manifest numbers to:

Environmental Monitoring & Reporting Branch  
125 Resources Road, East Wing  
Etobicoke, Ontario, M9P 3V6  
Attn.: Eva Raisman

*for E. Raisman*  
Anna Gortva





**MANIFEST - MANIFESTE**  
 The Manifest conforms to all Federal and Provincial transport regulations. Ce manifeste est conforme aux règlements fédéraux et provinciaux en matière de transport.

**A Consigner (Generator) / Expéditeur (Producteur)**  
 Company name / Nom de l'entreprise: **FRANK KING LTD**  
 Address / Adresse: **PO Box 431**  
 City / Ville: **WELLAND**  
 Province: **ONT**  
 Postal code / Code postal: **N2L 2L9**

**B Carrier (Receiver) / Destinataire (Réceptionniste)**  
 Company name / Nom de l'entreprise: **FRANK KING LTD**  
 Address / Adresse: **PO Box 431**  
 City / Ville: **WELLAND**  
 Province: **ONT**  
 Postal code / Code postal: **N2L 2L9**

**C Consignee (Receiver) / Destinataire (Réceptionniste)**  
 Company name / Nom de l'entreprise: **FRANK KING LTD**  
 Address / Adresse: **PO Box 431**  
 City / Ville: **WELLAND**  
 Province: **ONT**  
 Postal code / Code postal: **N2L 2L9**

**Vehicle / Véhicule**  
 Make / Marque: **DAI**  
 Model / Modèle: **1385R2**  
 Year / Année: **1985**  
 Province: **ONT**  
 Registration No. / N° d'immatriculation: **1385R2**

**Shipping name of waste / Appellation réglementaire du déchet**  
 Name of waste / Nom de l'agent nocif: **DIESEL FUEL**  
 Quantity / Quantité: **625 GAL**

**Date shipped / Date d'expédition**  
 Year / Année: **1985**  
 Month / Mois: **10**  
 Day / Jour: **17**  
 Time / Heure: **1:00 PM**

**Special handling/emergency instructions / Mesures spéciales/instructions d'urgence**  
 In case of an accident, call the following number: **366-6060**

**Signature / Signature**  
 Name of signatory / Nom de l'agent autorisé: **DAVID G. TRACY**  
 Title / Titre: **MANAGER**

**Consignor's Certification / Déclaration de l'expéditeur**  
 I declare that the information contained in Part A is correct and complete. Je déclare que tous les renseignements à la partie A sont vrais et complets.

**Receiver's Certification / Déclaration du destinataire**  
 I declare that the information contained in Part B is correct and complete. Je déclare que tous les renseignements à la partie B sont vrais et complets.

**Province / Province**  
 City / Ville: **WELLAND**  
 Postal code / Code postal: **N2L 2L9**

**Weight / Poids**  
 Gross weight / Poids brut: **625 GAL**  
 Net weight / Poids net: **625 GAL**

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso





# Emergency Waste Shipment Authorization

Emergency Generator Number

ONS0203 - BF - E-027602

### Generator

Company Name 842662 ONT LTD. (FRED WANG)		
Head Office Address 144 GARRISON RD		
City FORT ERIE	Province ON	Postal Code L2A 1N5
Site Address 144 GARRISON RD		
City FORT ERIE	Province ON	Postal Code L2A 1N5
Contact Name DAVID TALLEY (NIAGARA ENV. DIV.)	Tel. No. (905) 871-8553	

Manifest No.

### Carrier

Certificate of Approval No. A8345		
Company Name JIM'S TRUCKING LTD		
Address 580 RIDGE P.O. Box 431		
City WELLAND	Province ON	Postal Code L3R 5R2

### Receiver

Certificate of Approval No. A120404				
Company Name JIM'S TRUCKING LTD				
Address 580 RIDGE RD P.O. Box 431				
City WELLAND	Province ON	Postal Code L3R 5R2		
Waste Class	Waste Description	Quantity	Units	Physical State
2.2.1.L	DIESEL FUEL/WATER	approx. 10000	gal	liquid
1.5.O.L	CATCH BASIN WATER	approx. 1000	gal	liquid
Reason <input type="checkbox"/> Spill				

### Signatures

Requesting Officer BARBARA FARRELL	Signature <i>B. Farrell</i>	Date Oct. 6/00
Authorizing Officer Richard Dickson	Signature <i>R. Dickson</i>	Date Oct 6/00
Date package mailed	Date forms received	

0880 (10/93)

REGIONAL OFFICE



Niagara  
Environmental  
Dynamics Ltd.

September 18, 2000

Ministry of the Environment  
301 St. Paul Street 9th floor, Suite 15  
St. Catharines, Ontario  
L2R 3M8

Attention: John Neamtz  
Via: Facsimile 704-4015

Dear Mr. Neamtz,

Enclosed are the informational form and analytical results as pertains to the 644 Garrison Road (old Red Star Express) site in Fort Erie, Ontario.

The two liquid wastes to be generated are diesel fuel/ water (221L) and catchbasin water (150L). We have given estimated quantities of 10 000 gallons fuel/ water and 1 000 gallons of catchbasin water.

Analytical results for the liquids are also included. As is evident there are four(4) diesel fuel tanks in the tank nest. They are the sample numbers 644-G-1 to 644-G-4. Sample 644-G-Sump pertains to the catchbasin.

As indicated Jim's Trucking will be the carrier and receiver. At this time the actual time frame and scheduling of this project are anticipated to be within the next few weeks. Photocopies of the manifest's forms and numbers will be forwarded immediately to your office when removals are completed.

Niagara Environmental Dynamics is listed as the contact phone number in order to facilitate this project.

Should you require any further information please feel free to contact our office.

Best regards,

David Talley  
Niagara Environmental Dynamics Ltd.

P.O. Box 1406, 967 Helena Street • Fort Erie, Ontario L2A6G2 • Telephone: (905) 871-8553 • FAX: (905) 871-7056  
E-mail: ned@niagara-environmental.com • Web Site: www.niagara-environmental.com/enviro

OCT 04 2000 08:56

8717056

PAGE.01

000008

**Generator**

Company Name: 842662 ONT LTD. (FRED WANG)

Head Office Address: ~~677~~ 644 GARRISON

City: FT. ELIE Province: ONT Postal Code: L2A 1N5

Site Address: 644 GARRISON ROAD

City: FT. ELIE Province: ONT Postal Code: L2A 1N5

Contact Name: DAVID TALLEY (NIAGARA ENV. DIV.) Tel. No. (905) 871-8553 (NEE)

Manifest No.

**Carrier**

Certificate of Approval No. A 8345

Company Name: JIM'S TRUCKING LTD.

Address: 580 RIDGE (L3B 5N7) P.O. BOX 431

City: WELAND Province: ONT Postal Code: L3B 5R2

**Receiver**

Certificate of Approval No. A 120404

Company Name: JIM'S TRUCKING LTD.

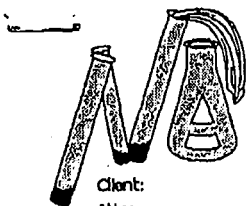
Address: 580 RIDGE ROAD (L3B 5N7) P.O. BOX 431

City: WELAND Province: ONT Postal Code: L3B 5R2

Waste Class	Waste Description	Quantity	Units	Physical State
22.1	DIESEL FUEL/WATER	APPROX 10 000	gAL	LIQ
1.50	CATCH BASIN WATER	APPROX 2000	gAL	LIQ

Reason:  Spill

\*\* TOTAL PAGE.02 \*\*



**NIAGARA  
ANALYTICAL  
INC.**

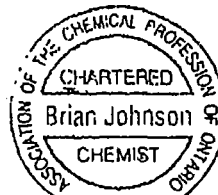
Client: Niagara Environmental Client#: 93 Job#: 367  
 Attn: Mr. D. Talley JOB NAME: Sanitary Seweruse, PCB's & Flashpoint  
 Mr. M. Mugas Data rec'd: 16-Jun-00  
 Address: P.O. Box 1406 #Rec'd: 6x Aqueous  
 Fort Erie, ON L2A 6G2 Report: 06-Jul-00  
 Phone: 871-8553 Chemist: BUJ  
 Fax: 871-7056 Techs: OMB, SCJ

CERTIFICATE OF ANALYSIS FOR: Niagara (Sanitary) Sewer-Use Bylaw Analysis, PCB's & Flashpoint  
 UNITS OF MEASURE: mg/L (ppm) unless noted otherwise  
 NOTE: MCL's for PCB analyses vary depending on the matrix

ANALYTE	TEST RESULTS				644-G-Sump 15-Jun-00 (water)	Niagara Sanitary Sewer bylaw
	644-G-1 15-Jun-00 (diesel fuel)	644-G-2 15-Jun-00 (diesel fuel)	644-G-3 15-Jun-00 (diesel fuel)	644-G-4 15-Jun-00 (diesel fuel)		
pH (SD)					7.02	6.0 to 10.5
Total Suspended Solids					11	350
Biochemical O2 Demand					2	300
Phenolics					0.039	1
Total Oil+Grease					<1	100
Mineral Oil+Grease					<1	15
Cyanide					<0.01	1
Chloride					40	1,500
Fluoride					0.46	10
Sulphate					89	1,500
Sulphide					<0.01	2
Total Phosphorus					0.03	100
Total PCB's	<5	<5	<0.05	<5	<0.005	not detected
PCB Arochlor	n/a	n/a	n/a	n/a	n/a	n/a
Flashpoint (degrees F)	165	165	170	180		see bylaw
Aluminum					3.3	50
Arsenic					0.007	1
Barium					1.4	5
Cadmium					0.005	2
Chromium					0.02	5
Copper					0.53	5
Iron					12	50
Lead					0.21	5
Manganese					0.60	n/a
Mercury					<0.1	0.1
Nickel					0.09	5
Th					0.02	5
Zinc					11	5

Steph A. Johnson; CEA  
 Laboratory Coordinator

Brian I. Johnson; B.Sc., C.Chem.  
 Laboratory Supervisor



5005 Progress Street, P.O. Box 205, Niagara Falls, Ontario L2E 6T0, (905) 261-1188 (5777) F (905) 261-0670



Niagara  
Environmental  
Dynamics Ltd.

September 18, 2000

Ministry of the Environment  
301 St. Paul Street 9th floor, Suite 15  
St. Catharines, Ontario  
L2R 3M8

Attention: John Neamtz  
Via: Facsimile 704-4015

Dear Mr. Neamtz,

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Niagara Environmental Dynamics is listed as the contact phone number in order to facilitate this project.

Should you require any further information please feel free to contact our office.

Best regards,

A handwritten signature in black ink, appearing to read 'David Talley', written in a cursive style.

David Talley  
Niagara Environmental Dynamics Ltd.

P.O. Box 1406, 967 Helena Street • Fort Erie, Ontario L2A6G2 • Telephone: (905) 871-8553 • FAX: (905) 871-7056  
E-mail: ned@niagara-environmental.com • Web Site: www.niagara-environmental.com/enviro

SEP 18 2000 11:26

8717056

PAGE.01

**Generator**

Company Name: 842662 ONT LTD. (FRED WANG)

Head Office Address: ~~677~~ 644 GARRISON

City: FT. ELIE Province: ONT Postal Code: L2A 1N5

Site Address: 644 GARRISON ROAD

City: FT. ELIE Province: ONT Postal Code: L2A 1N5

Contact Name: DAVID TALLEY (NIAGARA ENV. DYM.) Tel. No: (905) 871-8553 (NEED)

Manifest No.

**Carrier**

Certificate of Approval No. A 8345

Company Name: JIM'S TRUCKING LTD.

Address: 580 RIDGE (L3B 5N7) P.O. BOX 431

City: WELLAND Province: ONT Postal Code: L3B 5R2

**Receiver**

Certificate of Approval No. A 120404

Company Name: JIM'S TRUCKING LTD.

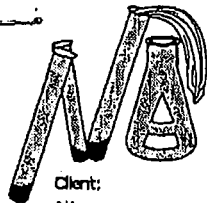
Address: 580 RIDGE ROAD (L3B 5N7) P.O. BOX 431

City: WELLAND Province: ONT Postal Code: L3B 5R2

Waste Class	Waste Description	Quantity	Units	Physical State
22.14	DIESEL FUEL/WATER	APPROX 10 000	gAL	LIQ
1.504	CATCH BASIN WATER	APPROX 7 000	gAL	LIQ

Reason:  Spill

\*\* TOTAL PAGE.02 \*\*



**NIAGARA  
ANALYTICAL  
INC.**

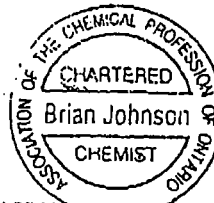
Client:	Niagara Environmental	Client#:	93	Job#:	357
Attn:	Mr. D. Talley	JOB NAME:	Sanitary Sewer use, PCB's & Flashpoint		
	Mr. M. Mugas	Date rec'd:	16-Jun-00		
Address:	P.O. Box 1406	#Rec'd:	6x Aqueous		
	Fort Erie, ON L2A 6G2	Report:	06-Jul-00		
Phone:	871-8553	Chemist:	BJJ		
Fax:	871-7056	Tech:	CMB, SCJ		

**CERTIFICATE OF ANALYSIS FOR:** Niagara (Sanitary) Sewer-Use Bylaw Analysis, PCB's & Flashpoint  
**UNITS OF MEASURE:** mg/L (ppm) unless noted otherwise  
**NOTE:** MCL's for PCB analyses vary depending on the matrix

ANALYTE	TEST RESULTS				644-G-Sump 15-Jun-00 (water)	Niagara Sanitary Sewer bylaw
	644-G-1 15-Jun-00 (diesel fuel)	644-G-2 15-Jun-00 (diesel fuel)	644-G-3 15-Jun-00 (diesel fuel)	644-G-4 15-Jun-00 (diesel fuel)		
pH (SI)					7.02	6.0 to 10.5
Total Suspended Solids					11	350
Biochemical O2 Demand					2	300
Phenolics					0.033	1
Total Oil+Grease					<1	100
Mineral Oil+Grease					<1	15
Cyanide					<0.01	1
Chloride					40	1,500
Fluoride					0.46	10
Sulphate					83	1,500
Sulphide					<0.01	2
Total Phosphorus					0.03	100
Total PCB's	<5	<5	<0.05	<5	<0.005	not detected
PCB Arochlor	n/a	n/a	n/a	n/a	n/a	n/a
Flashpoint (degrees F)	165	165	170	180		see bylaw
Aluminum					3.3	50
Arsenic					0.007	1
Barium					1.4	5
Cadmium					0.005	2
Chromium					0.02	5
Copper					0.53	5
Iron					12	50
Lead					0.21	5
Manganese					0.60	n/a
Mercury					<0.1	0.1
Nickel					0.03	5
Tin					0.02	5
Zinc					11	5

Steph A. Johnson; CEA  
Laboratory Coordinator

Brian I. Johnson; B.Sc., C.Chem.  
Laboratory Supervisor



5005 Progress Street • P.O. Box 205 • Niagara Falls, Ontario L2E 6T2 • (905) 341-1888 (609) 511-1888 (905) 341-1888



# Niagara Environmental Dynamics Ltd.

MINISTRY OF THE  
ENVIRONMENT NIAGARA  
DIS. SERVICE

'00 OCT 20 10:56

October 19, 2000

301 St. Paul St. Niagara  
St. Catharines, Ont.

Ministry of the Environment  
301 St. Paul Street  
9th floor, Suite #15  
St. Catharines, Ontario  
L2R 3M8

Attention: Barbara Farrell

Dear Ms. Farrell,

Enclosed for your reference are the photocopies of the four manifests perishing to the 644 Garrison Road Fort Erie Location your Emergency generator # E-ONS0203-BF027602. The original Copy 1 has been forwarded this morning to the reporting department on St. Clair Avenue in Toronto.

As is evident 2000 gallons of Catchbasin water was removed along with 2965 gallons of Diesel Fuel/water mixture.

Thank you again for your assistance in expediting this project.

Best regards,

David Talley  
Niagara Environmental Dynamics Ltd.







**MANIFEST - MANIFESTE**

This Manifest conforms to all Federal and provincial transport regulations.  
Ce manifeste est conforme aux Régulations fédérales et provinciales sur l'emballage et le transport, requérant un manifeste.



s.21

Manifest Reference No. /  
N° de référence au manifeste **NN27363-6**

Reference nos. of other Manifest(s) used /  
N°s de références des autres manifestes utilisés **NN27363-6-1**

**A** Consignor (Generator) / Expéditeur (Producteur) **E-2826203-BE027602**  
 Company name / Nom de l'entreprise  
 842662 ONT LTD  
 Mailing address / Adresse postale  
 644 GARRISON BL FORT ERIE ONT L2A1N5  
 Shipping site address / Origine de l'expédition  
 SAME  
 City / Ville  
 FORT ERIE  
 Province  
 ONT  
 Postal code / Code postal  
 L2A1N5  
 Intended consignee / Destinataire prévu  
 JIM'S TRUCKING  
 Address / Adresse  
 TRUCKING A120404  
 City / Ville  
 FORT ERIE  
 Province  
 ONT  
 Postal code / Code postal  
 L2A1N5  
 Receiving site address / Destination de l'expédition  
 580 Ridge Rd  
 City / Ville  
 WELLSLAND  
 Province  
 ONT  
 Postal code / Code postal  
 L3B5N7

**B** Carrier / Transporteur **AB345**  
 Company name / Nom de l'entreprise  
 JIM'S TRUCKING LTD  
 Address / Adresse  
 PO Box 431  
 City / Ville  
 WELLSLAND  
 Province  
 ONT  
 Postal code / Code postal  
 L3B5R2  
 Vehicle / Véhicule  
 Trailer/Rail Car No. 1  
 1<sup>st</sup> remorque - wagon  
 Trailer/Rail Car No. 2  
 2<sup>nd</sup> remorque - wagon  
 Point of entry / Point d'entrée  
 Point of exit / Point de sortie  
 Centre Certification: I declare that I have received training in Part A for safety of the transporter. I advise you of the details of the transporter in Part A on the day of my arrival at the destination and that the arrangements listed in Part A are correct and complete.  
 Year / Année  
 Month / Mois  
 Day / Jour  
 10 17 2005  
 Name of authorized person (last) / Nom de l'agent autorisé (cathédrale d'entreprise)  
 J. KASIM  
 Signature  
 J. K. / Te. No. / N° de tél.  
 905-734-9422

Physical state / État physique	Shipping name of waste / Appellation réglementaire du déchet	Provincial No. / N° (Québec-Ontario only)	Identification of dechet / Désignation	Quantity shipped / Quantité expédiée	Units / Unités	Packaging / Emballage	Code No. / N° de cat.	Date received / Date de réception		Time / Heures	A.M. / P.M.	
								Year / Année	Month / Mois			Day / Jour
LTD DIESEL FUEL & WATER	221 L	221 L	TDQAPN LTYDWP	625	625	625	0103	10	17	2005	17	0103

**C** Consignee (Receiver) / Destinataire (Réceptionnaire)  
 Consignee information same as intended Consignee in Part A  
 L'information à l'égard du destinataire est la même qu'en A  
 Confirmation:  Yes / Oui  No, complete the boxed area below  
 Company name / Nom de l'entreprise  
 Address / Adresse  
 City / Ville  
 Province  
 Postal code / Code postal  
 Receiving site address / Destination de l'expédition  
 City / Ville  
 Province  
 Postal code / Code postal  
 Date received / Date de réception  
 Year / Année  
 Month / Mois  
 Day / Jour  
 Time / Heures  
 A.M. / P.M.

Special handling/Emergency instructions /  
 Mentionnement spécial/instructions d'urgence  
 In case of spill call M.O.E. 1-800-268-6060  
 Citection no. - Québec only /  
 N° de circulation - Réservé au Québec  
 Date shipped / Date d'expédition  
 Year / Année  
 Month / Mois  
 Day / Jour  
 0101017  
 Name of authorized person (last) /  
 Nom de l'agent autorisé (cathédrale d'entreprise)  
 DAVID G. TALLEY N.F.D. /  
 Te. no. / N° de tél.  
 905-871-8553  
 Instructions for completion and distribution on reverse /  
 Instructions pour compléter et distribuer au verso  
 Copy / Copie 1 (white)

**MANIFEST - MANIFESTE**

This Manifest conforms to all Federal and Provincial transport and environmental legislation regarding manifesting hazardous waste. Ce manifest respecte toutes les lois fédérales et provinciales en matière de transport et de manifestation de déchets dangereux.



s.21

Manifest Reference No. /  
N° de référence du manifeste **NN27364-4**

References are, of other Manifest(s) used / N°s de référence des autres manifestes utilisés

**C** Consignee (Receiver) / Destinataire (Réceptionnaire)  
Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Consignee information same as Incended Consignee in Part A  
L'information à fournir par le destinataire est la même qu'en A  
Yes / Oui  No, complete the boxed area below

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Receiving site address / Destination de l'expédition  
City / Ville  
Province  
Postal code / Code postal

Date received / Date de réception  
Year / Année  
Month / Mois  
Day / Jour  
Time / Heure  
A.M.  P.M.

Quantity received / Quantité reçue  
Units / Unités  
Identify any shipment / Décrire toute expédition  
necessary / nécessaire, indiquer  
L'information relative à la  
nature et à la destination  
des déchets dangereux  
dans une feuille au verso.

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

Quantity shipped / Quantité expédiée  
Units / Unités  
Packaging / Conditionnement  
Description / Description  
No. / N°  
No. / N°  
No. / N°

**A** Consignor (Generator) / Expéditeur (Producteur)  
Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
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City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

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Company name / Nom de l'entreprise  
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City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

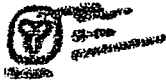
Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal

Company name / Nom de l'entreprise  
Address / Adresse  
City / Ville  
Province  
Postal code / Code postal



DEC 2 1986



SUMMARY FORM FOR GENERATOR REGISTRATION REPORTS (GRR)

GENERATOR REGISTRATION NUMBER : 020147400  
COMPANY NAME : RED STAR EXPRESS LINES

WASTE MANAGEMENT BRANCH (WMB) REVIEW

NOTES

Re - Acknowledgement  
COR dated : Oct 30/86  
Received : Nov 5/86  
Received : Nov 8/86

Based on information provided, Waste Class(es) appear(s) reasonable as acknowledged



ACKNOWLEDGED   
REJECTED

H J

WMB REVIEWER

DATE : Nov 1/86

REGIONAL REVIEW

NOTES :

Contacted Mr. Pizanic Aug 13 87  
completed questionnaire  
-received revision of GRR including waste meter  
Sept 11-87  
-received storage report for waste oil Sept 11 87  
WMB please note address is Ga

2 summary forms to sign.

1 GRR

to GRR enclosed)

1 GRR dated Oct 14/87 enclosed)

Paul Widmeyer

REGIONAL REVIEWER

DATE : Sept 11-87

0115 (6/86)

DISTRICT OFFICER

DATE :



May 23, 1986

Red Star Express Lines  
644 Carrison Road  
Fort Erie, Ontario  
L2A 1N5

Attn: Mr. Adolph Pisaric  
Supervisor of Maintenance

Dear Mr. Pisaric:

RE: Acknowledgement of Subject Waste Registration

As prescribed by Section 15(3) of Ontario Regulation 309, this letter acknowledges receipt of your Generator Registration Report dated February 21, 1986 for the following site:

644 Carrison Rd.  
Fort Erie, Ont.

The Generator Registration Number assigned to your company at this site is:

ON0147401

Please note that this Generator Registration Number must be used only in conjunction with the site for which it was issued.

A list of the waste stream(s) covered by this acknowledgement is attached to this letter as Schedule "A".

For off-site disposal of wastes, the waste number(s) describing the waste stream(s) in Schedule "A" and the Generator Registration Number must be entered on manifest forms for each waste transaction after you have received this generator registration document. A copy of an example manifest form is attached for your information.

For on-site disposal of wastes covered by this acknowledgement, including on-site incineration, landfilling

.../2

and discharges to sanitary sewers, every generator shall retain records for a period of at least two years. These records shall include the generator registration number, waste name(s), waste number(s), quantity and disposition of the waste(s).

The selection of accurate waste classes is the responsibility of each waste generator. This acknowledgement must not be considered as a confirmation of the accuracy of information submitted by you. Based on the information you have provided, the waste class(es) you have selected appear(s) to be correct. If, due to new information or re-assessment of information submitted, you feel your waste is inappropriately classified, you should apply for a revision to your registration using the Generator Registration Report, Form 2. Should the waste class(es) that you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 309.

Your Generator Registration Report has now been forwarded to the District Office of this Ministry that is closest to your generating site. The District Office will be conducting a post-registration audit and may be contacting you for additional information or may be conducting site visits.

It is important to note that under Section 15(4), a new Generator Registration Report must be submitted to the Ministry within fifteen (15) days for any of the following reasons:

1. If the name, address or telephone number of your company or waste generating site changes.
2. If the description, the waste class or physical or chemical characteristics of your registered wastes change(s).
3. If you generate a hazardous or liquid industrial waste that has not been registered with the Ministry.

If the quantity of registered wastes or your carrier or receiver changes, automatic re-registration is not required. However, in order to update our file, we may periodically request additional information when we observe or suspect a significant change as compared to the most recent information submitted by you for registration purposes.

.../3



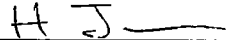
Should you have any questions concerning generator registration or manifesting requirements, please contact the Waste Management Branch Reviewer identified below at 965-9668.

Yours truly,



Director  
Regulation 309, R.R.O., 1980  
Environmental Protection Act

Waste Management Branch Reviewer:

  
H. Jun

EAS/bjb

Enclosure

LE 03 07  
JA/33

ADDITIONAL COMMENTS:

Based on the information you have submitted in your Generator Registration Report, we have selected the waste class 251L for your waste oily water from the floor drain in the shop. It is your responsibility to evaluate this waste class and re-register if it is found to be inappropriate for your particular waste.

SCHEDULE "A"

This attached Schedule forms part of the acknowledgement of generator registration for the facility and site identified by Generator Registration Number ON0147401, dated at Toronto, this 23rd day of May, 1986.

Waste Stream	Waste Class
1. Oily water from the floor drain in the shop	251L

Waste Management Branch Reviewer: H. Jun  
H. Jun

JA/33



Rapport d'inscription du producteur

"Règlement 309, R.R.O. de 1980, formule 2"

33-022

WASTE MANAGEMENT BRANCH

Regulation 309 requires generators of hazardous or liquid industrial wastes to submit a Generator Registration Report using this form respecting each waste generation facility and each hazardous or liquid industrial waste.  
Le règlement 309 exige que les producteurs de déchets industriels liquides ou dangereux présentent un Rapport d'inscription du producteur en se servant de la présente formule pour chaque lieu de production de déchets et chaque déchet industriel liquide ou dangereux.

Part 1 - Generator Identification / Partie I - Identification du producteur

This report is: *Le présent rapport constitue:*

1  an initial generator registration report / un premier rapport d'inscription du producteur

2  a revision - enter Ontario Generator Registration No. / une révision - veuillez inscrire le numéro d'inscription du producteur de l'Ontario

3 For generators located outside of Ontario, enter Registration/Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription/d'identification attribué par les autorités locales en matière d'environnement.

Generator Registration Number / N° d'inscription du producteur: 010147401

4 Name / Nom: RED STAR EXPRESS LINES

5 Address / Adresse: 644 CARRISON ROAD

6 Municipality / Municipalité: FORT ERIE Province/State / Province-État: ONT Postal Code / Code postal: L2A1N5

7 Site location / Lieu des installations: 644 CARRISON ROAD

8 Municipality / Municipalité: FORT ERIE Province/State / Province-État: ONT Postal Code / Code postal: L2A1N5

9 Name of contact / Nom de la personne à contacter: ADOLPH PISARIC Tel No. / N° de tél.:

10 Standard Industrial Classification Codes (SIC) for Site noted in Section 7. / Codes de la classification des activités économiques pour les installations décrites au n° 7:

11 Total number of wastes to be registered with this report / Nombre total de déchets à inscrire au moyen de ce rapport: 001

12 Name of Company Official / Nom du représentant autorisé de la compagnie: ~~KEVIN ADAMS~~ ADOLPH PISARIC

13 Position / Poste: SUPERVISOR / DIRECTOR OF MAINTENANCE

14 Signature / Signature: [Signature]

15 Date / Date: FEB 21-86

PENALTY / PÉNALITÉ: Contraventions may be punished by fines of up to \$2,000 (higher if environmental damage may result). (Environmental Protection Act, sections 47 and 147). Toute infraction peut être sanctionnée par une amende maximale de 2 000 \$ (ou plus s'il peut en résulter une détérioration de l'environnement). (Articles 47 et 147 de la Loi sur la protection de l'environnement)

16. Ministry Use Only / Réservé au ministère

County Code / Code de comté	17
Regional District Code / Code de région/district	203
Municipal Code / Code de municipalité	02120207
Inter City Tie Line / Ligne privée interurbaine	- - -





File No. 0147401

From: HI	To: Red Star Express
Location WMB	Location A P: Saic
<input type="checkbox"/> Incoming Call <input checked="" type="checkbox"/> Outgoing Call <input type="checkbox"/> Interview	Time 3:00 PM Date May 23, 86

Re: GRR

Nature of industry  
 → trading company

Waste is from the floor drains  
 after servicing truck

Some varnish (very little) at time  
 → I ~~also~~ reminded him that it  
 may be ignitable (off printer)  
 and perhaps he should consider  
 it

I explained:  
 Although it will be acknowledged as  
 251 L, he should verify and  
 satisfy himself that this is  
 the correct waste class and  
 contact us if otherwise.

HI  
Signature



November 10, 1986

Red Star Express Lines  
644 Carrison Rd.  
Fort Erie, Ont.  
L2A 1N5

Attn: Mr. A. Pisaric  
Supervisor of Maint.

Dear Mr. Pisaric:

RE: Acknowledgement of Subject Waste Registration

As prescribed by Section 15(4) of Ontario Regulation 309, this letter acknowledges receipt of your Generator Registration Report(s) dated February 21, 1986 and further correspondence as outlined in Schedule "B" for the following site:

644 Carrison Rd.  
Fort Erie, Ont.

The Generator Registration Number assigned to your company at this site is:

ON0147401

Please note that this Generator Registration Number must be used only in conjunction with the site for which it was issued.

This acknowledgement letter supersedes the previous acknowledgement letter dated May 23, 1986 for this site.

Please ensure that the company name shown on this letter is complete and accurate. This would be the corporate name or, if a partnership or proprietorship, the name of the principal(s). If you intend to carry on business under a separate name or style, this should also be entered. If there is a discrepancy, it is your responsibility to re-register providing us with your complete and accurate company name.

A list of the waste stream(s) covered by this acknowledgement is attached to this letter as Schedule "A".

For off-site disposal of subject wastes, the waste number(s) describing the waste stream(s) in Schedule "A"

.../2

and the Generator Registration Number must be entered on manifest forms for each waste transaction after you have received this generator registration document. A copy of an example manifest form is attached for your information.

For on-site disposal of subject wastes covered by this acknowledgement, including on-site incineration, landfilling and discharges to sanitary sewers, every generator shall retain records for a period of at least two years. These records shall include the generator registration number, waste name(s), waste number(s), quantity and disposition of the waste(s).

For off-site disposal of any registerable solid wastes shown in Schedule "A" (waste classes ending in the letter "N"), manifesting is not required at this time. These wastes can be disposed of at most approved municipal landfilling sites.

The selection of accurate waste classes is the responsibility of each waste generator. This acknowledgement must not be considered as a confirmation of the accuracy of information submitted by you. Based on the information you have provided, the waste class(es) that has (have) been selected appear(s) to be correct. If, due to new information or re-assessment of information submitted, you feel your waste is inappropriately classified, you should apply for a revision to your registration using the Generator Registration Report, Form 2. Should the waste class(es) that you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 309.

Your Generator Registration Report has now been forwarded to the District Office of this Ministry that is closest to your generating site. The District Office will be conducting a post-registration audit and may be contacting you for additional information or may be conducting site visits.

It is important to note that under Section 15(4) of Ontario Regulation 309, a new Generator Registration Report must be submitted to the Ministry within fifteen (15) days for any of the following reasons:

1. If the name, address or telephone number of your company or waste generating site changes.
2. If the description, the waste class or physical or chemical characteristics of your registered wastes change(s).
3. If you generate a hazardous or liquid industrial waste that has not been registered with the Ministry.

.../3

If the quantity of registered wastes or your carrier or receiver changes, automatic re-registration is not required. However, in order to update our file, we may periodically request additional information when we observe or suspect a significant change as compared to the most recent information submitted by you for registration purposes.

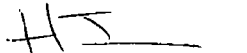
Should you have any questions concerning generator registration or manifesting requirements, please contact the Waste Management Branch Reviewer identified below at 965-9668.

Yours truly,



R.A. Breeze  
Director  
Regulation 309, R.R.O., 1980  
Environmental Protection Act

Waste Management Branch Reviewer:

  
H. Jun

EAS/gwm

Enclosure

LE 03 07  
JA836

.../4



SCHEDULE "A"

This attached Schedule forms part of the acknowledgement of generator registration for the facility and site identified by Generator Registration Number ON0147401, dated at Toronto, this 10th day of November, 1986.

Waste Stream	Waste Class
1. Naphtha petroleum (non-halogenated)	213I
2. Oily water from the floor drain in the shop	251L

Waste Management Branch Reviewer:

H. Jun  
H. Jun

JA836

.../5



33-022

Part I Generator Identification / Partie I - Identification du producteur

1. This report is: **Le présent rapport constitue**  
 an initial generator registration report / un premier rapport d'inscription du producteur  
 a revision - enter Ontario Generator Registration No. / une révision - veuillez inscrire le numéro d'inscription du producteur de l'Ontario

Generator Registration Number / No d'inscription du producteur  
 0100147401

For generators located outside of Ontario, enter Registration Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription d'identification attribué par les autorités locales en matière d'environnement

2. Name of Generator (Enter the corporate name or, if a partnership or proprietorship, the name of the principal(s). If the generator intends to carry on business under a separate name or style, this should also be entered.) / Nom du producteur (Veuillez inscrire la dénomination sociale ou, s'il s'agit d'une société en nom collectif ou d'une société propriétaire unique, le nom du/des principal(s) propriétaire(s). Si le producteur envisage d'exploiter une entreprise sous une dénomination ou un nom distinct, veuillez également le noter)

Name / Nom: RED STAR EXPRESS LINES

Address / Adresse: 644 GARRISON ROAD

Municipality / Municipalité: FORT ERIE  
 Province / Province: ONT  
 Postal Code / Code postal: L2A1N5

Site location / Lieu des installations: 644 GARRISON ROAD

Municipality / Municipalité: FORT ERIE  
 Province / Province: ONT  
 Postal Code / Code postal: L2A1N5

Name of contact / Nom de la personne à contacter: ADOLPH PISARIC  
 Tel No. / No de tél.

13. Standard Industrial Classification Codes (SIC) for Site noted in Section 7 / Codes de la classification des activités économiques pour les installations décrites au n° 7

14. Total number of wastes to be registered with this report / Nombre total de déchets à inscrire au moyen de ce rapport: 001

Name of company official / Nom du représentant autorisé de la compagnie: ADOLPH PISARIC

Signature / Signature: *Adolph Pisaric*

13. Position / Poste: SUPERVISOR

15. Date / Date: OCT 30 86

PENALTY / PÉNALITÉ: Tout infraction peut être sanctionnée par une amende maximale de 2 000 \$ (ou plus s'il peut en résulter une détérioration de l'environnement) (Articles 47 et 147 de la Loi sur la protection de l'environnement)

16. Ministry Use Only / Réservé au Ministère

County Code / Code de comté

Regional District Code / Code de région district

Municipal Code / Code de municipalité

Inter City Tie Line / Ligue privée interurbaine

Waste Naphtha Petroleum

WASTE MANAGEMENT BRANCH

Description of generating process / Description du procédé de production

03/13/85 11:4:13

Degreasing of parts and tools

Waste quantity generated or accumulated / Quantité des déchets produite ou accumulée

Continuous process / Procédé continu

Batch process / par lots

24 kg/mo. / kg/mois

or / ou

kg/batch / kg/lot

Primary characteristic / Caractéristique principale

Ignitable

Analytical data (if applicable) If the data has been estimated, attach separate sheet outlining the basis for the estimate. / Données analytiques (le cas échéant). Si les données sont estimatives, veuillez annexer une feuille à part pour décrire sur quoi reposent les estimations

Flash Point of 40°C (105°F) TCC

Name of Laboratory (if applicable) / Laboratoire (le cas échéant)

Material Safety Data Sheet issued by Manufacturer

Waste Class / Catégorie des déchets

2 | 1 | 3 | 1

Hazardous Waste Number / Numéro des déchets dangereux

UN | 1 | 2 | 5 | 5

Specific Gravity / Gravité spécifique

0 | 7 | B

Physical State (Solid - S, Liquid - L) / État physique (solide - S, liquide - L)

L

For Ministry Use Only / Réservé au ministère

Secondary Characteristic / Caractéristique secondaire

N/A

Analytical data (if applicable) / Données analytiques (le cas échéant)

N/A

Part 3 - Waste Management / Partie 3 - Gestion des déchets

Principal Intended Receiver / Réceptionnaire principal prévu

Company name and address / Nom et adresse de la compagnie

Safety Kleen Canada Ltd.  
1574 Hwy 2 Unit 1

Receiver No. / N° du réceptionnaire

Pending

Municipality / Municipalité

Ancaster

Province / State / Province / État

Ont.

Postal Code / Code postal

L 9 G 3 E 3

Principal Intended Carrier / Transporteur principal prévu

Company name and address / Nom et adresse de la compagnie

Safety Kleen Canada Ltd.  
1574 Hwy 2 Unit 1

MOE Carrier No. / N° du M. de l'E. du transporteur

A 860208

Municipality / Municipalité

Ancaster

Province / State / Province / État

Ont.

Postal Code / Code postal

L 9 G 3 E 3

"COPY"  
MINISTRY OF THE ENVIRONMENT  
WEST CENTRAL REGION

Registered.

August 24, 1987

Mr. Adolph Pisaric  
Supervisor of Maintenance  
Red Star Express Lines  
644 Garrison Rd  
Fort Erie, Ontario  
L2A 1N5

Dear Mr. Pisaric

Re: Waste Generator Registration Report  
Waste Generator No. ON0147401

Further to your conversation with Paul Widmeyer of this Ministry's Welland District Office on August 13, 1987, please find enclosed:

1. Generator Registration Report
2. Report on the storage of subject waste

The Generator Registration Report is enclosed allowing you to re-register your company's waste and to include a third waste stream - waste motor oil, waste class 252L. Section 15(4), Regulation 309 requires that you submit these revisions within 15 days.

The Report on the Storage of Subject Waste form is required as notification to this Ministry that waste is stored at your site for a period greater than 90 days. This is in reference to the oily, dirty water contained in the three underground holding tanks on the property.

Please complete these forms and return them to:

Mr. Paul Widmeyer  
Regulation 309 Technician  
Welland District Office  
Ministry of the Environment  
637- 641 Niagara St North  
Welland, Ontario  
L3C 1L9

Should you have questions please contact P. Widmeyer at (416)  
384-9896 or me at (416) 521-7523.

Yours truly



A. Braithwaite  
Generator Registration Officer  
West Central Region

cc: P. Widmeyer

AB/hm

called 2:15 PM Aug 6-87 - no answer  
called 2:15 PM Aug 13-87 - completed

note letter sent to Alison Aug 14-87  
re: GRR  
questionnaire

Name of Company:

GRR Number:

Location: bc

Name of Contact:

Type of business:

Type of vehicles serviced: Tractors

Size of shop: Number of Employees 4

Number of Vehicles 35-40

	Volume	Disposal
Crankcase Oil	100 gals/month	Ace Oil <i>Storage tank pumped by Ace</i>
Acids	—	
Batteries	15 stored	looking for disposal method
Solvents	25 gals/6wks	Safety Kleen
Caustic	—	
Phosphate Cleaners	Pressure Washer Washing trucks	Floor Drain $\Rightarrow$ 3 holding tanks
Paints	—	
Catch Basin Sludge	3 Holding tanks <i>vol unknown</i>	Jim's Trucking Ltd.

Do you wash vehicles on-site? Yes  No

Resulting Wastes: Holding tanks

Do you have an oil/water separator? Yes  No

How often is it pumped out? every 2 Yrs

disposal: Jim's Trucking

Do you have a parts cleaner? Yes  No

Supplier: Safety Kleen

Solvent: \_\_\_\_\_

Do you store waste over 3 months?

Yes



No

Comments: Jim's Trucking hauls contents of holding tanks  
≈ every 2 yrs. Currently storing approx. 15 batteries - waiting  
to find ~~storage~~ disposal method.

Reviewer:

PAUL WIDMETER

Date



REPORT ON THE STORAGE OF SUBJECT WASTE

Name: RED STAR EXPRESS  
Address: 644 GARRISON RD  
City: FORT ERIE.

Generator No: 000147401  
Postal Code: L2A-1N4

Contact Person: ADOLPH PISARIS  
Waste Name: WASTE MOTOR OIL

Telephone: [Barcode]

Waste Class Number and Primary Characteristic:

Quantity Presently Stored: 250 GALLONS

Anticipated Quantity at Time of Disposal: 250 TO 350 GALLONS

Anticipated Duration of Storage: 4 MONTHS TO 12 MONTHS

Reason for Retention of the Waste:

Description of Storage Procedure:

Yes No

Tanks - size 500 GAL number 1 type STEEL

above ground  underground

Drums - size 45 GAL number 1022 type STEEL (ONLY IF TANK IS

Will a leak or spill be contained ? FILLED)

If not, Why ?

Is the waste storage drum/tank clearly labelled ?

If not, Why ?

Do you have a contingency plan in the event of a spill ?

If yes, attach copy. If not, Why ?

Is the storage facility/area routinely inspected ?

Is the waste stored in a secure area ?

If not, Why ?

ATTACH A DIAGRAM OF THE STORAGE AREA.

Manner of Disposal: Carrier CAN-AM OIL SERVICE MOE # A 8231

Receiver CAN-AM OIL SERVICE MOE # PENDING

Date: Sept 9-87 Signature [Signature]

To be submitted to: MIROSLAV BRANTKOVIC, West Central Region  
Ministry of the Environment  
119 King Street West  
Hamilton, Ontario.  
L8N 3Z9

GARRISON RD.

YARD

BUILDING  
REPAIR SHOP.

UNDERGROUND  
TANK.

YARD.



SUMMARY FORM FOR GENERATOR REGISTRATION REPORTS (GRR)

GENERATOR REGISTRATION NUMBER : ON 0147401

COMPANY NAME : RED STAR EXPRESS LINES OF ONTARIO

WASTE MANAGEMENT BRANCH (WMB) REVIEW

NOTES :

Re - Ack
GRR dated : Sept 9/87
Received : Oct 15/87
- 1 waste added (25-2 L)

Based on information provided, Waste Class(es) appear(s) reasonable as acknowledged



ACKNOWLEDGED [checked box]

REJECTED [unchecked box]

KHJ

WMB REVIEWER

DATE : Oct 22/87

REGIONAL REVIEW

NOTES :

[checked box] No changes to GRR
[unchecked box] Clarification to GRR (attachments enclosed)
[unchecked box] Changes to GRR (attachments enclosed)

REGIONAL REVIEWER DATE :

DISTRICT OFFICER DATE :



November 6, 1987

Red Star Express Lines of Ontario  
644 Carrison Rd.  
Fort Erie, Ont.  
L2A 1N5

Attn: Mr. A. Pisaric  
Supv. of Maint.

Dear Mr. Pisaric:

RE: Acknowledgement of Subject Waste Registration

As prescribed by Section 15(4) of Ontario Regulation 309, this letter acknowledges receipt of your Generator Registration Report(s) dated February 21, 1986 and further correspondence as outlined in Schedule "B" for the following site:

644 Carrison Rd.  
Fort Erie, Ont.

The Generator Registration Number assigned to your company at this site is:

ON0147401

Please note that this Generator Registration Number must be used only in conjunction with the site for which it was issued.

This acknowledgement letter supersedes the previous acknowledgement letter dated November 10, 1986 for this site.

Please ensure that the company name shown on this letter is complete and accurate. This would be the corporate name or, if a partnership or proprietorship, the name of the principal(s). If you intend to carry on business under a separate name or style, this should also be entered. If there is a discrepancy, it is your responsibility to re-register providing us with your complete and accurate company name.

A list of the waste stream(s) covered by this acknowledgement is attached to this letter as Schedule "A".

For off-site disposal of subject wastes, the waste number(s) describing the waste stream(s) in Schedule "A"

.../2

and the Generator Registration Number must be entered on manifest forms for each waste transaction after you have received this generator registration document. A copy of an example manifest form is attached for your information.

For on-site disposal of subject wastes covered by this acknowledgement, including on-site incineration, landfilling and discharges to sanitary sewers, every generator shall retain records for a period of at least two years. These records shall include the generator registration number, waste name(s), waste number(s), quantity and disposition of the waste(s).

For off-site disposal of any registerable solid wastes shown in Schedule "A" (waste classes ending in the letter "N"), manifesting is not required at this time. These wastes can be disposed of at most approved municipal landfilling sites.

The selection of accurate waste classes is the responsibility of each waste generator. This acknowledgement must not be considered as a confirmation of the accuracy of information submitted by you. Based on the information you have provided, the waste class(es) that has (have) been selected appear(s) to be correct. If, due to new information or re-assessment of information submitted, you feel your waste is inappropriately classified, you should apply for a revision to your registration using the Generator Registration Report, Form 2. Should the waste class(es) that you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 309.

Your Generator Registration Report has now been forwarded to the District Office of this Ministry that is closest to your generating site. The District Office will be conducting a post-registration audit and may be contacting you for additional information or may be conducting site visits.

It is important to note that under Section 15(4) of Ontario Regulation 309, a new Generator Registration Report must be submitted to the Ministry within fifteen (15) days for any of the following reasons:

1. If the name, address or telephone number of your company or waste generating site changes.
2. If the description, the waste class or physical or chemical characteristics of your registered wastes change(s).
3. If you generate a hazardous or liquid industrial waste that has not been registered with the Ministry.

.../3



SCHEDULE "A"

This attached Schedule forms part of the acknowledgement of generator registration for the facility and site identified by Generator Registration Number ON0147401, dated at Toronto, this 6th day of November, 1987.

	Waste Stream	Waste Class
1.	Naphtha petroleum (non-halogenated)	213I
2.	Oily water from the floor drain in the shop	251L
3.	Waste motor oil	252L

Waste Management Branch Reviewer:

KHJ  
K.H. Jun

3/28.73

.../5

SCHEDULE "B"

This attached Schedule forms part of the acknowledgement of generator registration for the facility and site identified by Generator Registration Number ON0147401, dated at Toronto, this 6th day of November, 1987.

	<u>Date</u>
Initial Generator Registration Report (GRR)	Feb 21/86
Supplemental GRR	Oct 30/86
Supplemental GRR	Sep 09/87
Telephone Conversation(s) with: A. Pisaric	May 23/86

Waste Management Branch Reviewer:

K+J-  
K.H. Jun

3/28.73





# Rapport d'inscription du producteur

"Règlement 309, R.R.O. de 1980, formule 2"

NOTE: Regulation 309 requires generators of hazardous or liquid industrial wastes to submit a Generator Registration Report using this form respecting each waste generation facility and each hazardous or liquid industrial waste.

REMARQUE: Le règlement 309 exige que les producteurs de déchets industriels liquides ou dangereux présentent un Rapport d'inscription du producteur en se servant de la présente formule pour chaque lieu de production de déchets et chaque déchet industriel liquide ou dangereux.

## Part I - Generator Identification / Partie I - Identification du producteur

This report is / Le présent rapport constitue:

1.  an initial generator registration report / un premier rapport d'inscription du producteur

or / ou

2.  a revision - enter Ontario Generator Registration No. / une révision - veuillez inscrire le numéro d'inscription du producteur de l'Ontario

3. For generators located outside of Ontario, enter Registration/Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription/d'identification attribué par les autorités locales en matière d'environnement.

Generator Registration Number / No d'inscription du producteur: 0 5 0 1 4 7 4 0 1

Name of Generator (Enter the corporate name or, if a partnership or proprietorship, the name of the principal(s). If the generator intends to carry on business under a separate name or style, this should also be entered.) / Nom du producteur (Veuillez inscrire la dénomination sociale ou, s'il s'agit d'une société en nom collectif ou d'une société à propriétaire unique, le nom du (des) principal (principaux) propriétaire(s). Si le producteur envisage d'exploiter une entreprise sous une dénomination ou un nom distinct, veuillez également le noter.)

4. Name / Nom: RED STAR EXPRESS LINA OF ONTARIO

5. Address / Adresse: 644 GARRISON ROAD

6. Municipality / Municipalité: FORT ERIE

Province/State / Province/État: ONT

Postal Code / Code postal: L2A1N5

7. Site location / Lieu des installations: 644 GARRISON ROAD

8. Municipality / Municipalité: FORT ERIE

Province/State / Province/État: ONT

Postal Code / Code postal: L2A1N5

9. Name of contact / Nom de la personne à contacter: ADOLPH PISARIC

Tel No. / No de tél:

10. Standard Industrial Classification Codes (SIC) for Site noted in Section 7. / Codes de la classification des activités économiques pour les installations décrites au n° 7

11. Total number of wastes to be registered with this report / Nombre total de déchets à inscrire au moyen de ce rapport: 0 0 1

12. Name of Company Official / Nom du représentant autorisé de la compagnie: ADOLPH PISARIC

13. Position / Poste: SUPERVISOR OF MAINTENANCE

14. Signature / Signature: [Handwritten Signature]

15. Date / Date: SEPT 9 - 1987

Contraventions may be punished by fines of up to \$2,000 (higher if environmental damage may result). (Environmental Protection Act, sections 47 and 147)

Toute infraction peut être sanctionnée par une amende maximale de 2 000 \$ (ou plus s'il peut en résulter une détérioration de l'environnement) (Articles 47 et 147 de la Loi sur la protection de l'environnement)

16. Ministry Use Only / Réserve au ministère

County Code / Code de comté	
Regional/District Code / Code de région/district	
Municipal Code / Code de municipalité	
Intra City Tie Line / Ligne privée interurbaine	





August 24, 1987

119 King St W  
12th Floor - Box 2112  
Hamilton Ontario  
L8N 3Z9  
416/521-7640

119 ouest. rue King  
12e étage - Casier 2112  
Hamilton (Ontario)  
L8N 3Z9  
416/521-7640

Mr. Adolph Pisaric  
Supervisor of Maintenance  
Red Star Express Lines  
644 Garrison Rd  
Fort Erie, Ontario  
L2A 1N5

Dear Mr. Pisaric

Re: Waste Generator Registration Report  
Waste Generator No. ON0147401

Further to your conversation with Paul Widmeyer of this Ministry's Welland District Office on August 13, 1987, please find enclosed:

1. Generator Registration Report
2. Report on the storage of subject waste

The Generator Registration Report is enclosed allowing you to re-register your company's waste and to include a third waste stream - waste motor oil, waste class 252L. Section 15(4), Regulation 309 requires that you submit these revisions within 15 days.

The Report on the Storage of Subject Waste form is required as notification to this Ministry that waste is stored at your site for a period greater than 90 days. This is in reference to the oily, dirty water contained in the three underground holding tanks on the property.

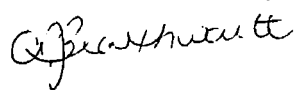
Please complete these forms and return them to:

Mr. Paul Widmeyer  
Regulation 309 Technician  
Welland District Office  
Ministry of the Environment  
637- 641 Niagara St North  
Welland, Ontario  
L3C 1L9

Fort Erie

Should you have questions please contact P. Widmeyer at (416)  
384-9896 or me at (416) 521-7523.

Yours truly

A handwritten signature in cursive script, appearing to read "A. Braithwaite".

A. Braithwaite  
Generator Registration Officer  
West Central Region

cc: P. Widmeyer

AB/hm

 **Ontario**  
**OCCURENCE REPORT**

Ministry of the  
**Environment**

**Location of Occurrence:**  
 FORT ERIE TOWN  
 HWY 3 FORT ERIE

**Reg: 2 Dist: WL Municipality: 18401**

**Entered:** ORIS No.  
 : 9020300498

**Received By:**  
 WELLAND DISTRICT

**Occurrence Type:** Subtype:  
 C 03

**Source:**  
 UNKNOWN

**Sector: UK Source: UK SIC:**  
 UTM:  
 N:  E:  Zone:

**Abstracts:** Diaries:

**Batch:** I. E. B. No.

**Occurrence Date:** 1990/07/30

**Occurrence Time:** :

**Report to MOE:** 1990/07/30 16:01

**MOE at Scene:** :

**Assigned To:** JOHN NEAMTZ

**ERP Contacted:** :

**Callout:**  NSP: [N]

**ERP Name:**

**Work Plan:**

**Reported By:** [REDACTED]

**Telephone No.:** [REDACTED] **Alternate No.:** - - x

**Address:** [REDACTED]

**Syn:** FALLOUT LARGE CLOUDS OF DUST.

**Brief Summary:**  
 DIRT PARKING LOT LOCATED AT HWY 3 "RED STAR BLDG" ALMOST AT THE CORNER OF GARRISON ROAD IS CREATING LARGE CLOUDS OF DUST. APPARENTLY THERE ARE TRUCKS DROPPING THEIR TRAILERS THERE BEFORE CROSSING THE BORDER AND CREATING ALL THIS DUST.

If there are related reports, record initial/master ORIS No. here >>  
**Followup Action:** Abatement IEB Other  
**BF Date:**

**File Closed:** Abatement: IEB Other  
**Suspected Violation:**

**Report Prepared By:** Date: IEB Investigator: IEB BF Date

**Approving Officer** Date: **Reviewing Officer:** Date

Specify number(s) for routing Original [ ] [ ] [ ] [ ] [ ]  
 Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ]

1. Investigator/E.O. 2. D. O./File 3. SAC (initial spills)  
 4. Reg. Dir. / \_\_\_\_\_ Mgr. 5. IEB Reg. Spv 6. IEB H.O./file 7. Other \_\_\_\_\_

**SAC Action Class: 1: 2:**

**Material 1:** Code :  
**Amount :** UN No.:

**Material 2:** Code :  
**Amount :** UN No.:

**Material 3:** Code :  
**Amount :** UN No.:

Cause.....:		Code..:
Reason.....:		Code..:
Person in Control:		Waste GenNum:
Owner.....:		Waste GenNum:
Agencies Involved.....:		
Clean up and Restoration Carried out by:		
<input type="checkbox"/> Controller	<input type="checkbox"/> Owner	<input type="checkbox"/> Other
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X <input type="checkbox"/>	Regulation 362 <input type="checkbox"/>	Manifest No.
Waste Class :		Code...:
Hauler :		Code...:
Disposal Site :		Code...:
Environmental Impact:	Nature of Impact:	Code...:
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:		Code...:



## Property Information

Order Number: 20170925196p  
 Date Completed: October 2, 2017  
 Project Number:  
 Project Property: CB1041.00 - 644 Garrison Road, Fort Erie  
 644 Garrison Rd Fort Erie ON L2A1N4  
 Coordinates:  
 Latitude: 42.906288  
 Longitude: -78.9384428  
 UTM Northing: 4752470.01781 Metres  
 UTM Easting: 668291.983744 Metres  
 UTM Zone: UTM Zone 17T  
 Elevation: 190.86 m  
 Slope Direction: N

Property Information.....1  
 Topographic Information.....2  
 Hydrologic Information.....6  
 Geologic Information.....8  
 Soil Information.....15  
 Wells and Additional Sources.....51  
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 Detail Report.....54  
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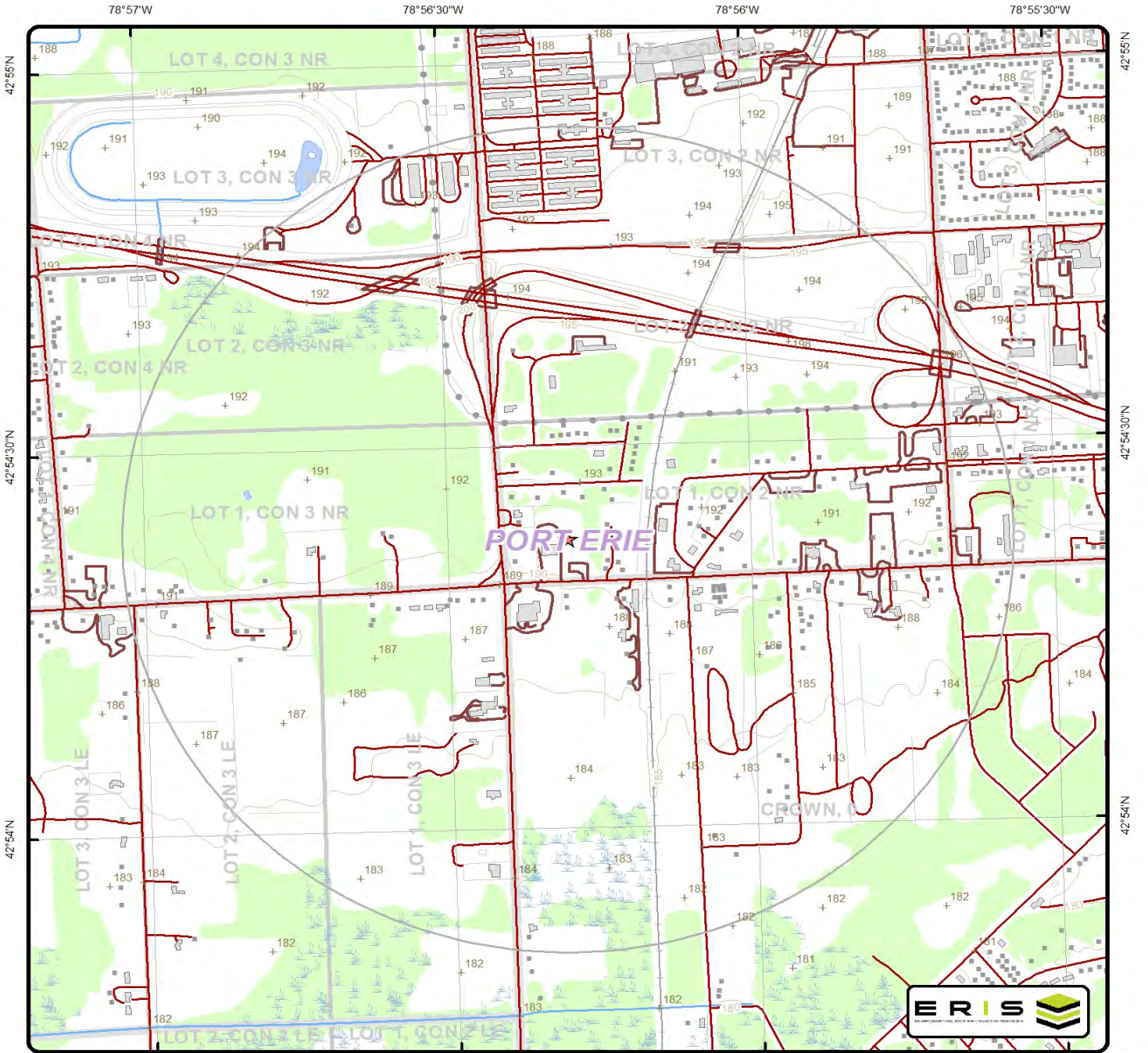
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

### Disclaimer

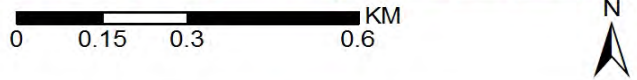
This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

# Topographic Information



## Topographic Map

Address: 644 Garrison Rd, Fort Erie, ON

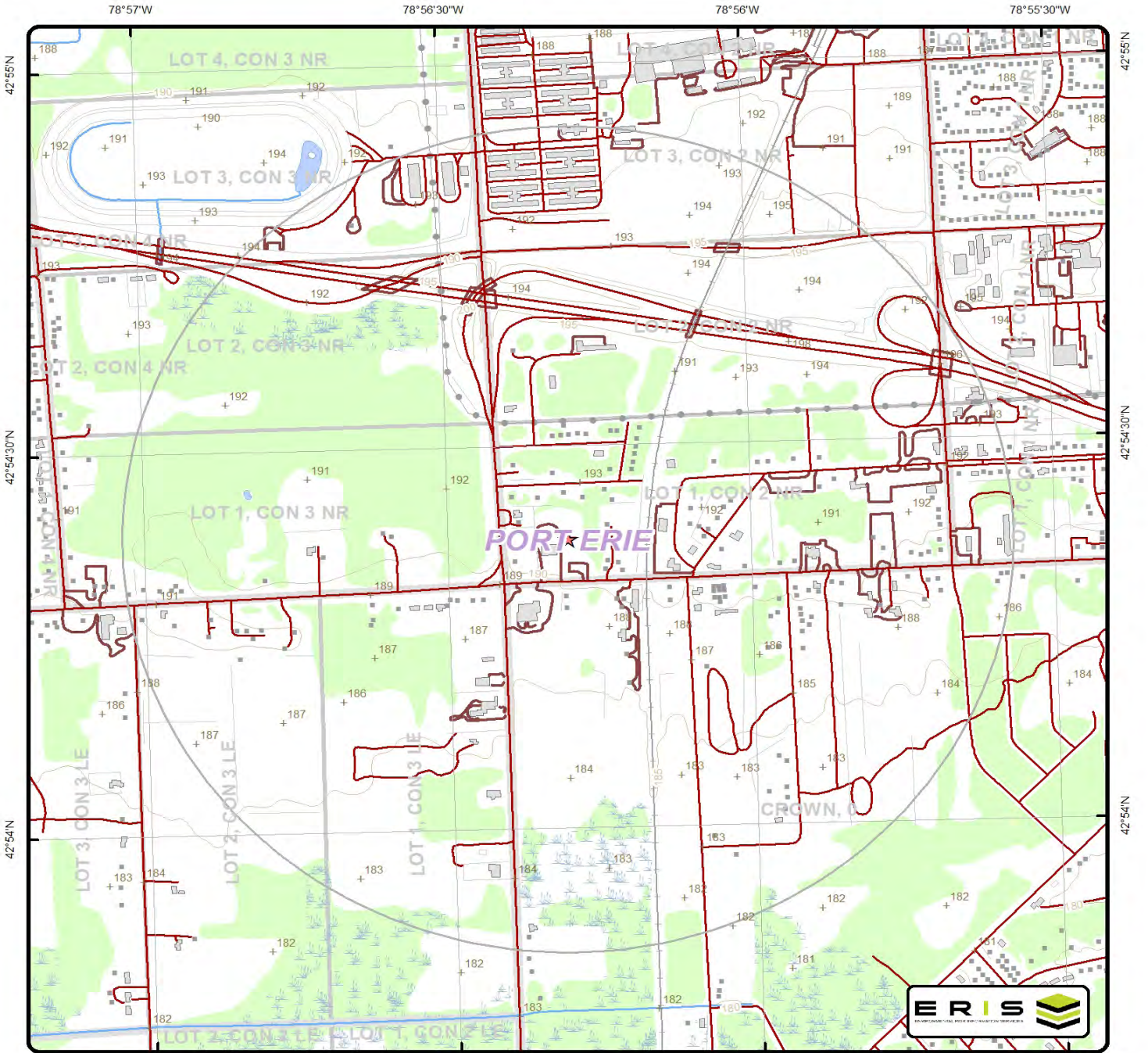


+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Wooded Area
•	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⊕	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
•	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River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

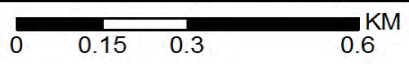
Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.



# Topographic Information



## Topographic Map



Address: 644 Garrison Rd, Fort Erie, ON

+	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	■	Municipality	■	Nature Reserve
---	Trail	■	Building to Scale	■	Land Ownership		

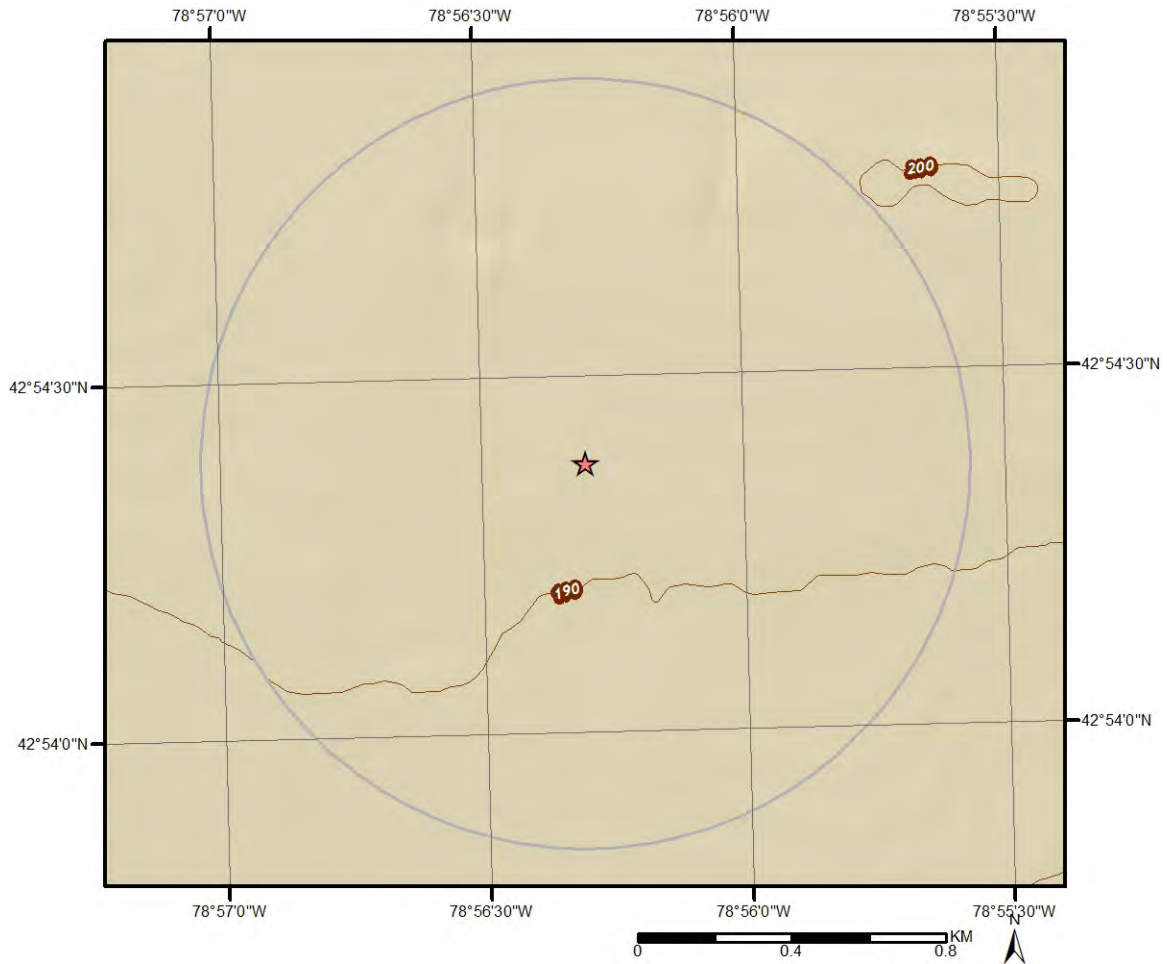
Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.

# Topographic Information

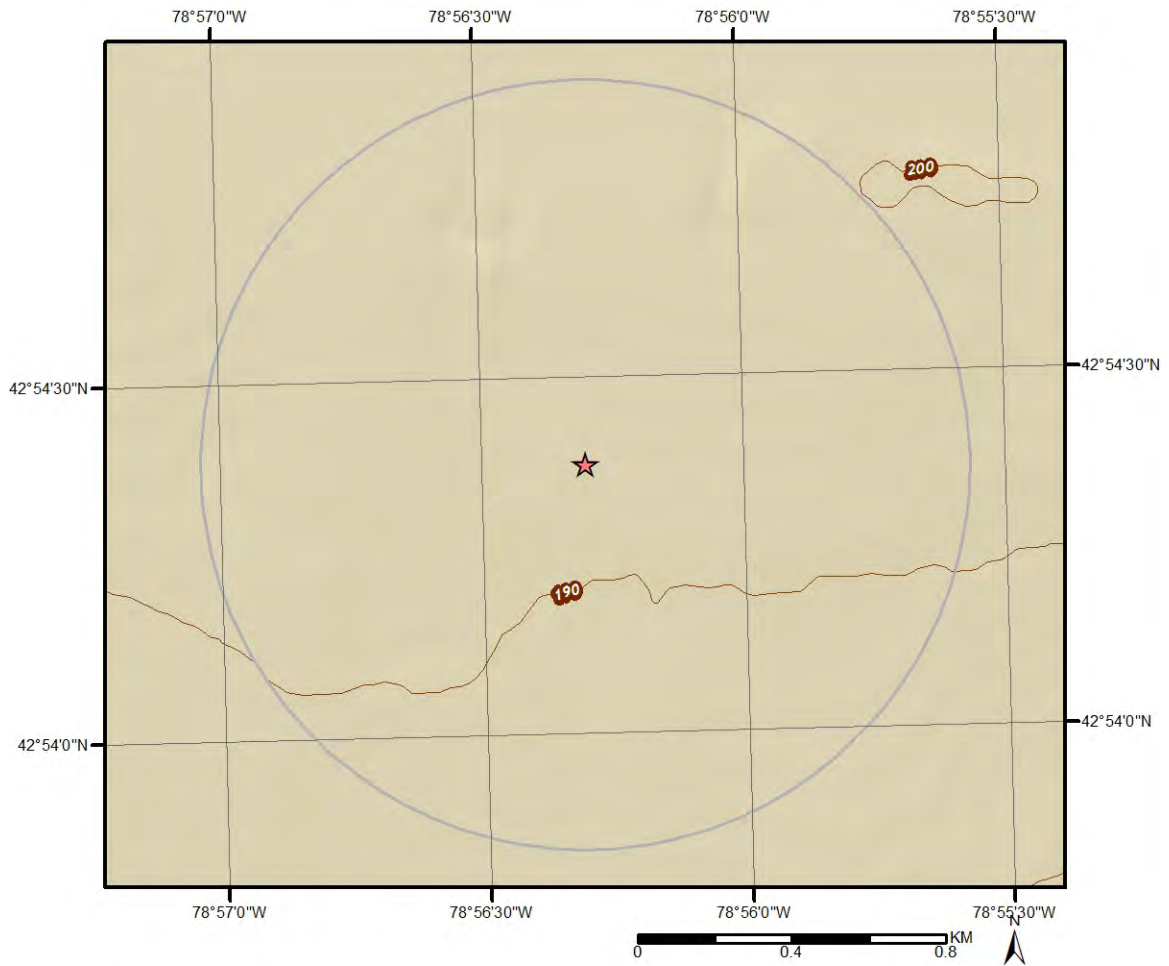
The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

Topographic information at project property:

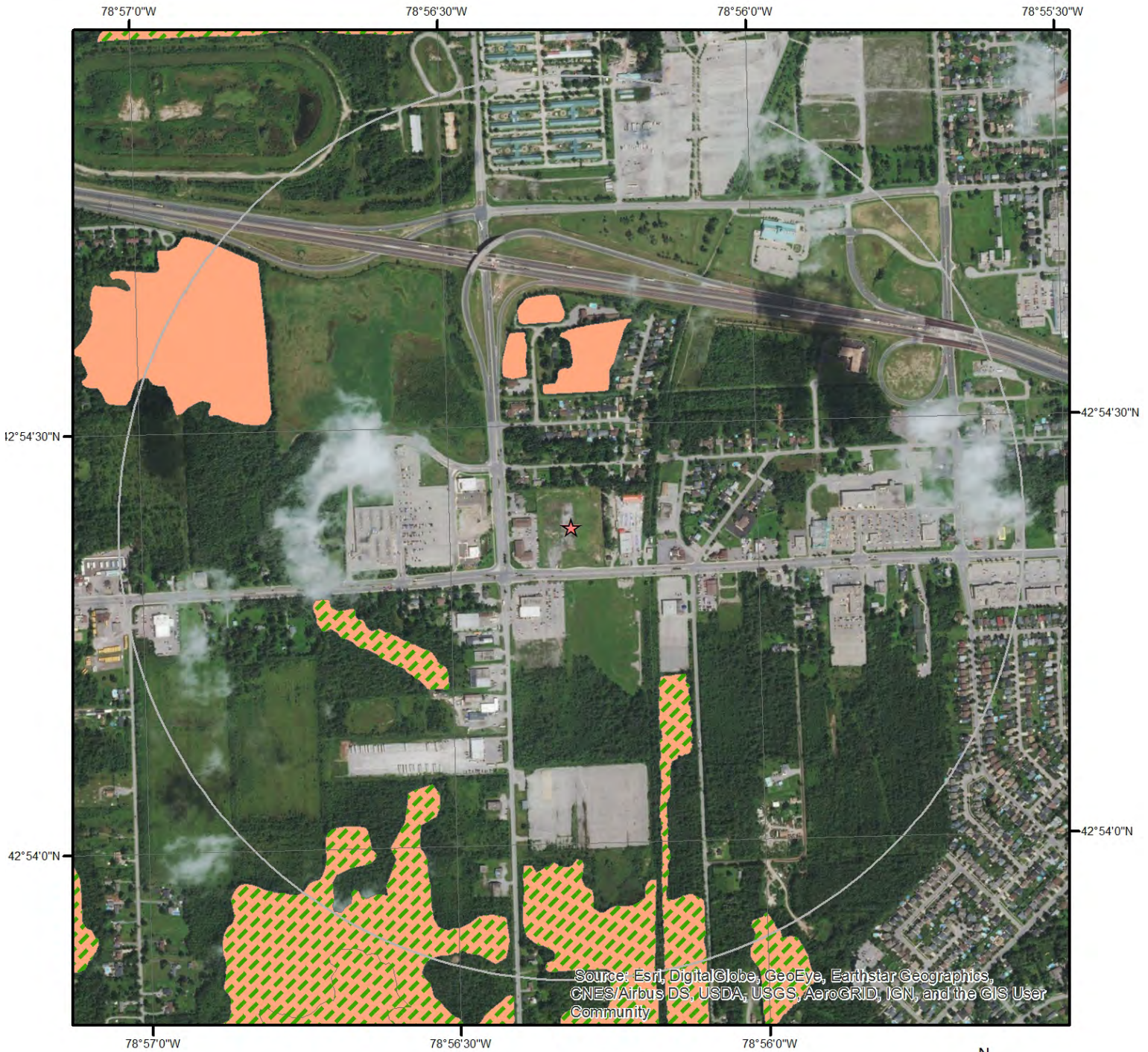
Elevation: 190.86 m  
Slope Direction: N



# Topographic Information

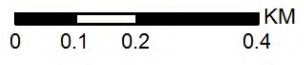




# Hydrologic Information



## Wetland

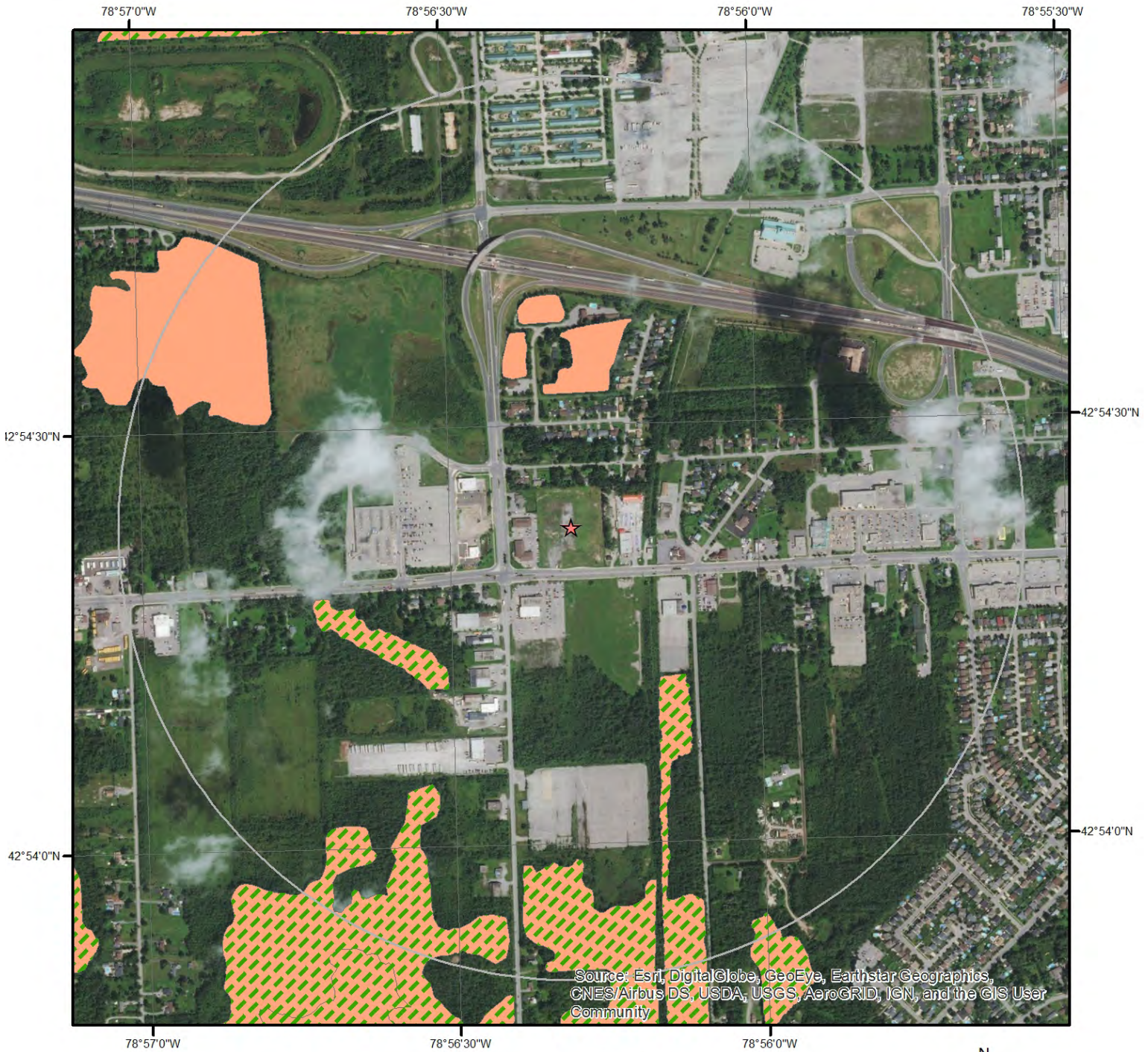
This map shows wetland existence. Data coverage is shown to the right. Gray indicates no data available in the area.



-  Evaluated PSW
-  Swamp

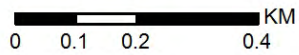




# Wetland Information



## Wetland

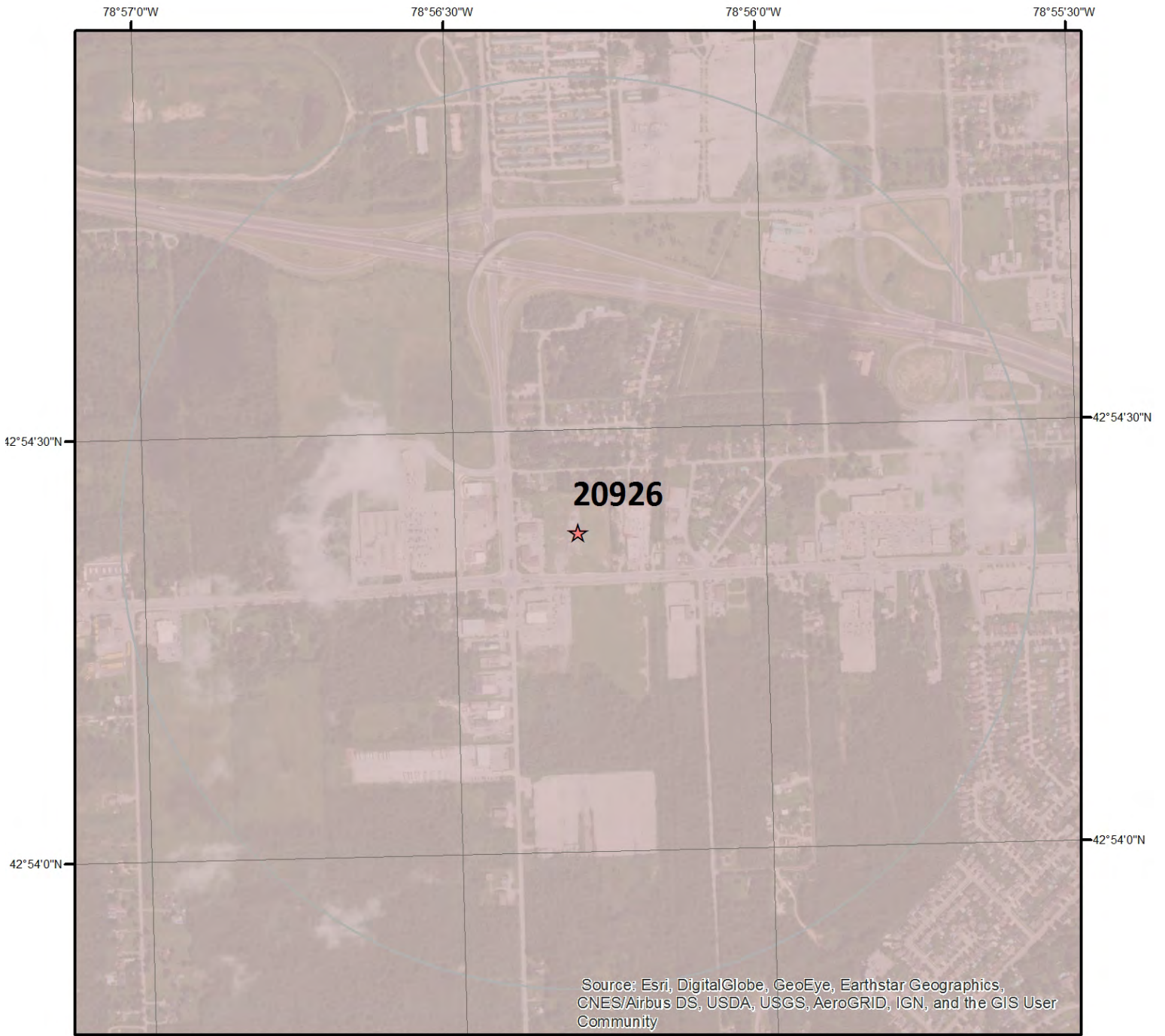
This map shows wetland existence. Data coverage is shown to the right. Gray indicates no data available in the area.



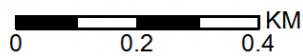
-  Evaluated PSW
-  Swamp



# Geologic Information



## Bedrock Geology

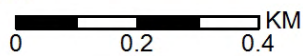


This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

# Geologic Information



## Bedrock Geology



This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

A north arrow pointing upwards, labeled with 'N'. Below it is the ERISS logo, which consists of the letters 'ERISS' in a bold, sans-serif font. Underneath the letters is the text 'ENVIRONMENTAL RISK INFORMATION SERVICES'. To the right of the text is a stylized logo consisting of three stacked, horizontal bars of increasing height from left to right, colored in shades of green and yellow.

## Geologic Information

Detailed bedrock geology information about each unit within the search radius is provided below.

---

### Unit ID 20926

Unit Name:

Rock Type:

Limestone, dolostone, shale

Strata:

Detroit River Group; Onondaga Formation

Super Eon:

Eon:

PHANEROZOIC (Present to 542.0 Ma)

Era:

PALEOZOIC (251.0 Ma to 542.0 Ma)

Period:

DEVONIAN (359.2 Ma to 416.0 Ma)

Epoch:

MIDDLE DEVONIAN

Province:

Tectonic Zone:

### Unit ID 20926

Unit Name:

Rock Type:

Limestone, dolostone, shale

Strata:

Detroit River Group; Onondaga Formation

Super Eon:

Eon:

PHANEROZOIC (Present to 542.0 Ma)

Era:

PALEOZOIC (251.0 Ma to 542.0 Ma)

Period:

DEVONIAN (359.2 Ma to 416.0 Ma)

Epoch:

MIDDLE DEVONIAN

Province:

Tectonic Zone:

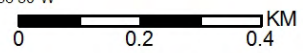


# Geologic Information



## Surficial Geology

This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

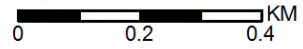


# Geologic Information



## Surficial Geology

This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.



## Geologic Information

Detailed surficial geology information about each unit within the search radius is provided below.

---

### Unit ID 7

Geological Deposit: Glaciolacustrine deep water deposits  
Deposit Age: Late Wisconsinan  
Primary Material: clay, silt  
Secondary Material:  
Primary General: glaciolacustrine  
Primary General Modifier: foreshore/basinal  
Venner:  
Episode: Wisconsin  
Sub Episode: Michigan  
Strata Modifier: Surface  
Provenance:  
Carbon Content:  
Formation:  
Permeability: Low  
Material Description: Clay and silt

### Unit ID 7

Geological Deposit: Glaciolacustrine deep water deposits  
Deposit Age: Late Wisconsinan  
Primary Material: clay, silt  
Secondary Material:  
Primary General: glaciolacustrine  
Primary General Modifier: foreshore/basinal  
Venner:  
Episode: Wisconsin  
Sub Episode: Michigan  
Strata Modifier: Surface  
Provenance:  
Carbon Content:  
Formation:  
Permeability: Low  
Material Description: Clay and silt

---

### Unit ID 5

Geological Deposit: Halton Till  
Deposit Age: Late Wisconsinan  
Primary Material: diamicton  
Secondary Material:  
Primary General: glacial  
Primary General Modifier:  
Venner:

## Geologic Information

Episode: Wisconsin  
Sub Episode: Michigan  
Strata Modifier: Surface  
Provenance: Ontario  
Carbon Content: medium-high  
Formation: Halton Till  
Permeability: Low  
Material Description: Silty and clayey till

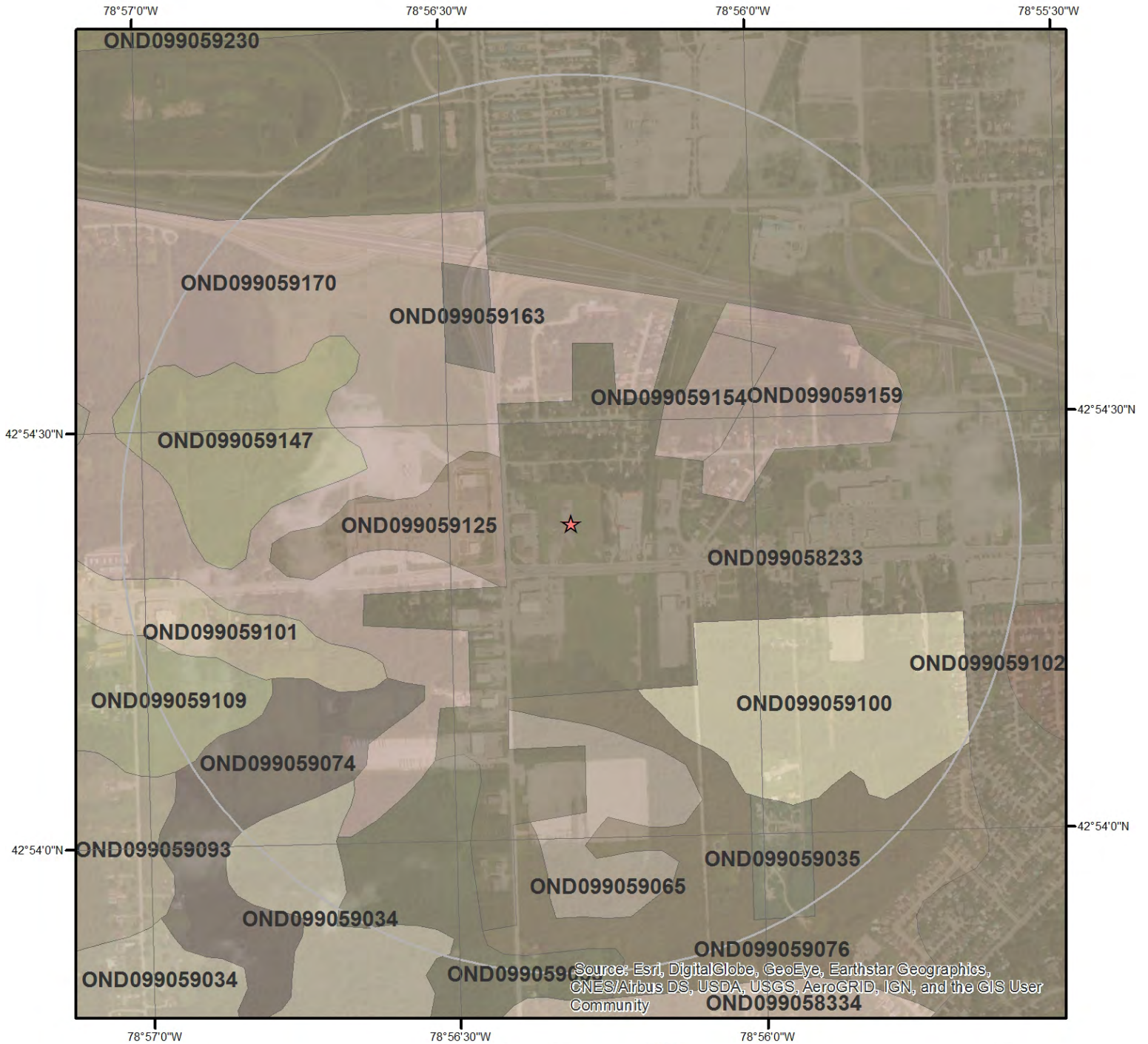
### Unit ID 5

Geological Deposit: Halton Till  
Deposit Age: Late Wisconsinan  
Primary Material: diamicton  
Secondary Material:  
Primary General: glacial  
Primary General Modifier:

Venner:

Episode: Wisconsin  
Sub Episode: Michigan  
Strata Modifier: Surface  
Provenance: Ontario  
Carbon Content: medium-high  
Formation: Halton Till  
Permeability: Low  
Material Description: Silty and clayey till

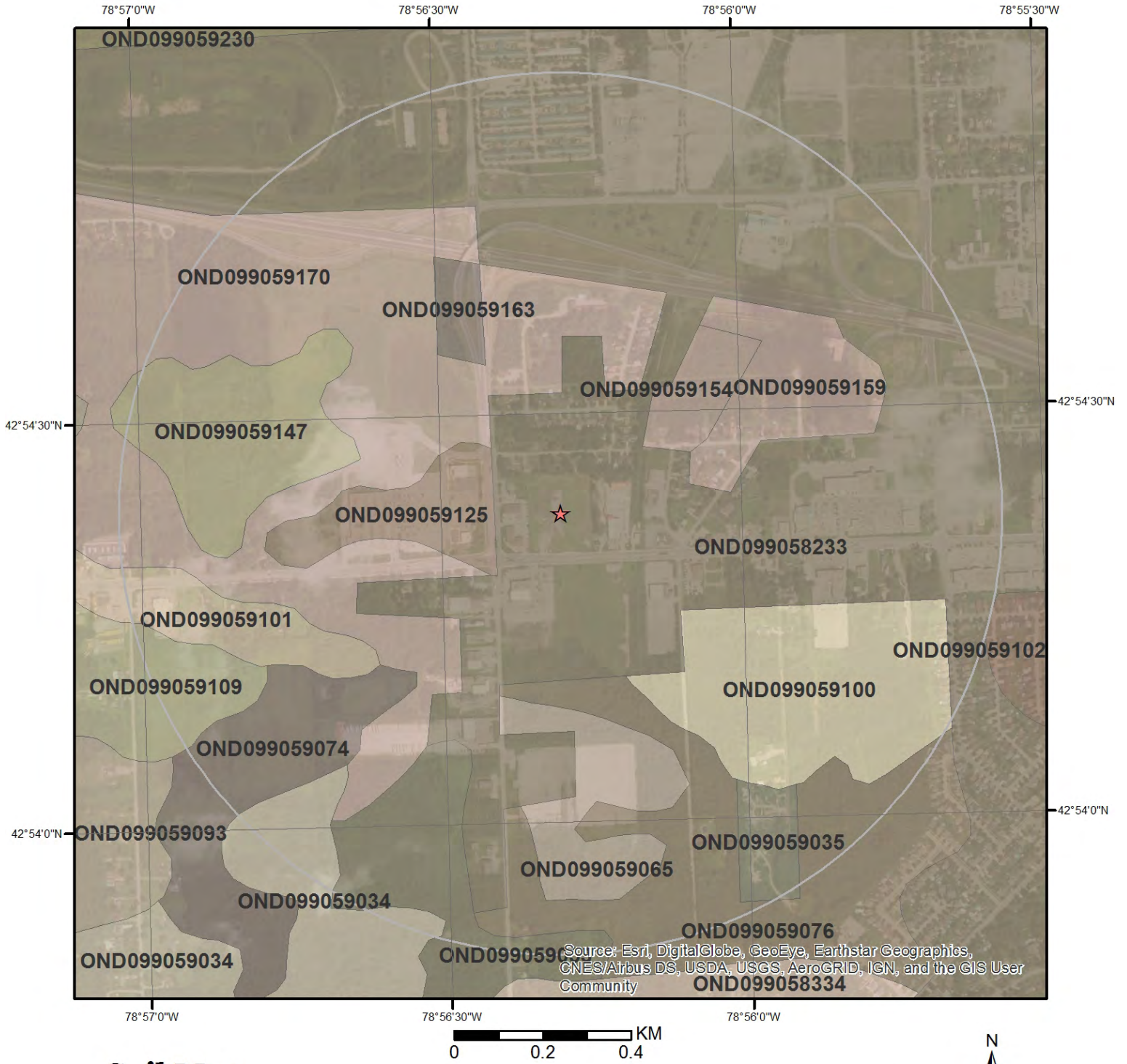
# Soil Information



## Soil Map

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

# Soil Information



## Soil Map

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

## Soil Information

Detailed soil information about each unit within the search radius is provided below.

### Ontario Detailed Soil Survey (DSS3)

---

Polygon ID: OND099058233

#### Component

Component ID:	OND09905823301	Components(%):	100
Soil Name ID:	ONZUN~~~~~N	Slope Steepness(%):	Unknown or Not applicable
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Not Applicable		

#### Component Rating

##### Field Crops Capability:

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Drainage:

Soil Texture of A

Horizon:

Hydrological Soil

Groups:

#### Soil Name

Soil Name:	UNCLASSIFIED
Kind of Surface Material:	Unclassified
Soil Drainage Class:	Not applicable
Water Table Characteristics:	Unspecified period
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

---

Polygon ID: OND099059074

#### Component

## Soil Information

<b>Component ID:</b>	OND09905907401	<b>Components(%):</b>	50
<b>Soil Name ID:</b>	ONCGUR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

**Field Crops Capability:** moderate limitations on use for crops  
**First CLI Limitation Subclass:** Adverse soil structure (i.e. Depth of rooting zone is restricted)  
**Second CLI Limitation Subclass:**  
**Drainage:** Imperfectly  
**Soil Texture of A Horizon:** clay loam  
**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 Name

**Soil Name:** CHINGUACOUSY  
**Kind of Surface Material:** Mineral  
**Soil Drainage Class:** Imperfectly drained  
**Water Table Characteristics:** Unspecified period  
**Layer that Restricts Root Growth:** Third layer  
**Type of Root Restricting Layer:** Compact Till  
**Parent Material 1, 2, 3:** Moderately Fine; Not Applicable; Not Applicable  
**Mode of Deposition 1,2,3:** Till (Morainal); Not Applicable; Not Applicable  
**Parent Material Chemical Property 1,2,3:** Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	28
<b>Depth(cm):</b>	0-20	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.5	<b>Total Clay(%):</b>	30
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.417	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	24
<b>Depth(cm):</b>	20-48	<b>Total Silt(%):</b>	42



## Soil Information

<b>pH in Calc Chloride:</b>	6.2	<b>Total Clay(%):</b>	34
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.293	<b>Organic Carbon(%):</b>	0.4
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Btgj	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	48-60	<b>Total Silt(%):</b>	43
<b>pH in Calc Chloride:</b>	6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.216	<b>Organic Carbon(%):</b>	0.5
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ckgj	<b>Total Sand(%):</b>	19
<b>Depth(cm):</b>	60-100	<b>Total Silt(%):</b>	41
<b>pH in Calc Chloride:</b>	7.6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.149	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

### Component

<b>Component ID:</b>	OND09905907402	<b>Components(%):</b>	50
<b>Soil Name ID:</b>	ONJDDR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	2	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

<b>Field Crops Capability:</b>	moderately severe limitations on use for crops.
<b>First CLI Limitation Subclass:</b>	
<b>Second CLI Limitation Subclass:</b>	
<b>Drainage:</b>	Poorly
<b>Soil Texture of A Horizon:</b>	
<b>Hydrological Soil Groups:</b>	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 Name

<b>Soil Name:</b>	JEDDO
<b>Kind of Surface Material:</b>	Mineral

## Soil Information

<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table Characteristics:</b>	Always
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	19
<b>Depth(cm):</b>	0-18	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	6.3	<b>Total Clay(%):</b>	37
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.402	<b>Organic Carbon(%):</b>	2.8
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	8
<b>Horizon:</b>	Bmj	<b>Total Sand(%):</b>	20
<b>Depth(cm):</b>	18-37	<b>Total Silt(%):</b>	39
<b>pH in Calc Chloride:</b>	7.2	<b>Total Clay(%):</b>	41
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.268	<b>Organic Carbon(%):</b>	0.7
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	37-43	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	6.1	<b>Total Clay(%):</b>	43
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.213	<b>Organic Carbon(%):</b>	0.6
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	43-100	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	7.7	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	6.974	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

Polygon ID: OND099059053

## Soil Information

### Component

<b>Component ID:</b>	OND09905905301	<b>Components(%):</b>	70
<b>Soil Name ID:</b>	ONMATR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

**First CLI Limitation**

**Subclass:**

**Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

**Soil Texture of A**

**Horizon:**

**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 Name

<b>Soil Name:</b>	MALTON
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table</b>	Unspecified period
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	No root restricting layer
<b>Type of Root Restricting Layer:</b>	n/a
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Fine; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Glaciolacustrine; Till (Morainal); Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Weakly Calcareous; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	0-19	<b>Total Silt(%):</b>	46
<b>pH in Calc Chloride:</b>	7	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	3.5	<b>Organic Carbon(%):</b>	3.5
<b>Electrical Conductivity(dS/m):</b>	0		

## Soil Information

Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bg	Total Sand(%):	13
Depth(cm):	19-43	Total Silt(%):	45
pH in Calc Chloride:	8	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.32	Organic Carbon(%):	0.3
Electrical Conductivity(dS/m):	0		

Layer No:	3	Very Fine Sand(%):	5
Horizon:	Ckg	Total Sand(%):	13
Depth(cm):	43-87	Total Silt(%):	49
pH in Calc Chloride:	8	Total Clay(%):	38
Saturated Hydraulic Conductivity(cm/h):	2.372	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Layer No:	4	Very Fine Sand(%):	11
Horizon:	Ckg	Total Sand(%):	29
Depth(cm):	87-100	Total Silt(%):	44
pH in Calc Chloride:	8	Total Clay(%):	27
Saturated Hydraulic Conductivity(cm/h):	0.199	Organic Carbon(%):	0
Electrical Conductivity(dS/m):	1		

### Component

Component ID:	OND09905905302	Components(%):	30
Soil Name ID:	ONPELR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	silty clay
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 Information

### Soil Name

**Soil Name:** PEEL  
**Kind of Surface Material:** Mineral  
**Soil Drainage Class:** Imperfectly drained  
**Water Table Characteristics:** Unspecified period  
**Layer that Restricts Root Growth:** Fourth layer  
**Type of Root Restricting Layer:** Compact Till  
**Parent Material 1, 2, 3:** Fine; Moderately Fine; Not Applicable  
**Mode of Deposition 1,2,3:** Glaciolacustrine; Till (Morainal); Not Applicable  
**Parent Material Chemical Property 1,2,3:** Weakly Calcareous; Moderately / Very Strongly Calcareous; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	4
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	14
<b>Depth(cm):</b>	0-10	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.9	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.337	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	18
<b>Depth(cm):</b>	10-30	<b>Total Silt(%):</b>	35
<b>pH in Calc Chloride:</b>	5.9	<b>Total Clay(%):</b>	47
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.258	<b>Organic Carbon(%):</b>	1
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	0
<b>Horizon:</b>	Btgj	<b>Total Sand(%):</b>	4
<b>Depth(cm):</b>	30-48	<b>Total Silt(%):</b>	27
<b>pH in Calc Chloride:</b>	7.1	<b>Total Clay(%):</b>	69
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.201	<b>Organic Carbon(%):</b>	0.6
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	18
<b>Depth(cm):</b>	48-100	<b>Total Silt(%):</b>	38
<b>pH in Calc Chloride:</b>	7.7	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.145	<b>Organic Carbon(%):</b>	0

## Soil Information

Electrical  
Conductivity(dS/m): 0

Polygon ID: OND099059125

### Component

Component ID:	OND09905912501	Components(%):	70
Soil Name ID:	ONCGULR~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability: moderate limitations on use for crops  
First CLI Limitation Subclass: Adverse soil structure (i.e. Depth of rooting zone is restricted)  
Second CLI Limitation Subclass:  
Drainage: Imperfectly  
Soil Texture of A Horizon: silt loam  
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 Name

Soil Name: CHINGUACOUSY  
Kind of Surface Material: Mineral  
Soil Drainage Class: Imperfectly drained  
Water Table Characteristics: Unspecified period  
Layer that Restricts Root Growth: No root restricting layer  
Type of Root Restricting Layer: n/a  
Parent Material 1, 2, 3: Moderately Fine; Not Applicable; Not Applicable  
Mode of Deposition 1,2,3: Till (Morainal); Not Applicable; Not Applicable  
Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

Layer No:	1	Very Fine Sand(%):	9
Horizon:	Ap	Total Sand(%):	23
Depth(cm):	0-20	Total Silt(%):	53

## Soil Information

pH in Calc Chloride:	7	Total Clay(%):	24
Saturated Hydraulic Conductivity(cm/h):	0.461	Organic Carbon(%):	1.6
Electrical Conductivity(dS/m):	0		
Layer No:	2	Very Fine Sand(%):	7
Horizon:	Bmgj	Total Sand(%):	23
Depth(cm):	20-33	Total Silt(%):	53
pH in Calc Chloride:	7	Total Clay(%):	24
Saturated Hydraulic Conductivity(cm/h):	0.308	Organic Carbon(%):	1.2
Electrical Conductivity(dS/m):	0		
Layer No:	3	Very Fine Sand(%):	5
Horizon:	Btgj	Total Sand(%):	11
Depth(cm):	33-53	Total Silt(%):	49
pH in Calc Chloride:	7.3	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.198	Organic Carbon(%):	0.3
Electrical Conductivity(dS/m):	0		
Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckgj	Total Sand(%):	12
Depth(cm):	53-100	Total Silt(%):	46
pH in Calc Chloride:	7.4	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.174	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

### Component

Component ID:	OND09905912502	Components(%):	30
Soil Name ID:	ONCGUR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Loss of soil profile from Erosion
Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam

## Soil Information

### 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 Name

<b>Soil Name:</b>	CHINGUACOUSY
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Imperfectly drained
<b>Water Table Characteristics:</b>	Unspecified period
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	28
<b>Depth(cm):</b>	0-20	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.5	<b>Total Clay(%):</b>	30
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.417	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	24
<b>Depth(cm):</b>	20-48	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.2	<b>Total Clay(%):</b>	34
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.293	<b>Organic Carbon(%):</b>	0.4
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Btgj	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	48-60	<b>Total Silt(%):</b>	43
<b>pH in Calc Chloride:</b>	6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.216	<b>Organic Carbon(%):</b>	0.5
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ckgj	<b>Total Sand(%):</b>	19



## Soil Information

<b>Depth(cm):</b>	60-100	<b>Total Silt(%):</b>	41
<b>pH in Calc Chloride:</b>	7.6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.149	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

**Polygon ID:** OND099059102

### Component

<b>Component ID:</b>	OND09905910201	<b>Components(%):</b>	100
<b>Soil Name ID:</b>	ONJDDR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

**First CLI Limitation**

**Subclass:**

**Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

**Soil Texture of A**

**Horizon:**

**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 Name

<b>Soil Name:</b>	JEDDO
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table</b>	Always
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

## Soil Information

Layer No:	1	Very Fine Sand(%):	7
Horizon:	Ap	Total Sand(%):	19
Depth(cm):	0-18	Total Silt(%):	44
pH in Calc Chloride:	6.3	Total Clay(%):	37
Saturated Hydraulic Conductivity(cm/h):	0.402	Organic Carbon(%):	2.8
Electrical Conductivity(dS/m):	0		

Layer No:	2	Very Fine Sand(%):	8
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	18-37	Total Silt(%):	39
pH in Calc Chloride:	7.2	Total Clay(%):	41
Saturated Hydraulic Conductivity(cm/h):	0.268	Organic Carbon(%):	0.7
Electrical Conductivity(dS/m):	0		

Layer No:	3	Very Fine Sand(%):	6
Horizon:	Bg	Total Sand(%):	17
Depth(cm):	37-43	Total Silt(%):	40
pH in Calc Chloride:	6.1	Total Clay(%):	43
Saturated Hydraulic Conductivity(cm/h):	0.213	Organic Carbon(%):	0.6
Electrical Conductivity(dS/m):	0		

Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckg	Total Sand(%):	16
Depth(cm):	43-100	Total Silt(%):	40
pH in Calc Chloride:	7.7	Total Clay(%):	44
Saturated Hydraulic Conductivity(cm/h):	6.974	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059101

### Component

Component ID:	OND09905910101	Components(%):	100
Soil Name ID:	ONOIDR~~~~A	Slope Steepness(%):	3.5
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

## Soil Information

<b>Field Crops Capability:</b>	moderate limitations on use for crops
<b>First CLI Limitation Subclass:</b>	Adverse soil structure (i.e. Depth of rooting zone is restricted)
<b>Second CLI Limitation Subclass:</b>	Loss of soil profile from Erosion
<b>Drainage:</b>	Moderately Well
<b>Soil Texture of A Horizon:</b>	clay loam
<b>Hydrological Soil Groups:</b>	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 Name

<b>Soil Name:</b>	ONEIDA
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Moderately well drained
<b>Water Table Characteristics:</b>	Never
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	14
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	35
<b>Depth(cm):</b>	0-18	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	7.1	<b>Total Clay(%):</b>	25
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.426	<b>Organic Carbon(%):</b>	0.7
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	11
<b>Horizon:</b>	Bt	<b>Total Sand(%):</b>	37
<b>Depth(cm):</b>	18-35	<b>Total Silt(%):</b>	34
<b>pH in Calc Chloride:</b>	7.2	<b>Total Clay(%):</b>	29
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.324	<b>Organic Carbon(%):</b>	0.3
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	8
<b>Horizon:</b>	Ck	<b>Total Sand(%):</b>	24
<b>Depth(cm):</b>	35-100	<b>Total Silt(%):</b>	46
<b>pH in Calc Chloride:</b>	7.7	<b>Total Clay(%):</b>	30

## Soil Information

<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.171	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

**Polygon ID:** OND099059100

### Component

<b>Component ID:</b>	OND09905910001	<b>Components(%):</b>	70
<b>Soil Name ID:</b>	ONJDDR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

**First CLI Limitation**

**Subclass:**

**Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

**Soil Texture of A**

**Horizon:**

**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 Name

<b>Soil Name:</b>	JEDDO
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table</b>	Always
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
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## Soil Information

<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	19
<b>Depth(cm):</b>	0-18	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	6.3	<b>Total Clay(%):</b>	37
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.402	<b>Organic Carbon(%):</b>	2.8
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	8
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	20
<b>Depth(cm):</b>	18-37	<b>Total Silt(%):</b>	39
<b>pH in Calc Chloride:</b>	7.2	<b>Total Clay(%):</b>	41
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.268	<b>Organic Carbon(%):</b>	0.7
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	37-43	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	6.1	<b>Total Clay(%):</b>	43
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.213	<b>Organic Carbon(%):</b>	0.6
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	43-100	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	7.7	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	6.974	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

### Component

<b>Component ID:</b>	OND09905910002	<b>Components(%):</b>	30
<b>Soil Name ID:</b>	ONCGUR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	2	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

<b>Field Crops Capability:</b>	moderate limitations on use for crops
<b>First CLI Limitation Subclass:</b>	Adverse soil structure (i.e. Depth of rooting zone is restricted)
<b>Second CLI Limitation Subclass:</b>	

## Soil Information

<b>Drainage:</b>	Imperfectly
<b>Soil Texture of A Horizon:</b>	clay loam
<b>Hydrological Soil Groups:</b>	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 Name

<b>Soil Name:</b>	CHINGUACOUSY
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Imperfectly drained
<b>Water Table Characteristics:</b>	Unspecified period
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	28
<b>Depth(cm):</b>	0-20	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.5	<b>Total Clay(%):</b>	30
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.417	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	24
<b>Depth(cm):</b>	20-48	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.2	<b>Total Clay(%):</b>	34
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.293	<b>Organic Carbon(%):</b>	0.4
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Btgj	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	48-60	<b>Total Silt(%):</b>	43
<b>pH in Calc Chloride:</b>	6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.216	<b>Organic Carbon(%):</b>	0.5
<b>Electrical Conductivity(dS/m):</b>	0		

## Soil Information

Layer No:	4	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	19
Depth(cm):	60-100	Total Silt(%):	41
pH in Calc Chloride:	7.6	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.149	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059147

### Component

Component ID:	OND09905914701	Components(%):	70
Soil Name ID:	ONCGULR~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	silt loam
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 Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Characteristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

## Soil Information

### Soil Layer

Layer No:	1	Very Fine Sand(%):	9
Horizon:	Ap	Total Sand(%):	23
Depth(cm):	0-20	Total Silt(%):	53
pH in Calc Chloride:	7	Total Clay(%):	24
Saturated Hydraulic Conductivity(cm/h):	0.461	Organic Carbon(%):	1.6
Electrical Conductivity(dS/m):	0		

Layer No:	2	Very Fine Sand(%):	7
Horizon:	Bmgj	Total Sand(%):	23
Depth(cm):	20-33	Total Silt(%):	53
pH in Calc Chloride:	7	Total Clay(%):	24
Saturated Hydraulic Conductivity(cm/h):	0.308	Organic Carbon(%):	1.2
Electrical Conductivity(dS/m):	0		

Layer No:	3	Very Fine Sand(%):	5
Horizon:	Btgj	Total Sand(%):	11
Depth(cm):	33-53	Total Silt(%):	49
pH in Calc Chloride:	7.3	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.198	Organic Carbon(%):	0.3
Electrical Conductivity(dS/m):	0		

Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckgj	Total Sand(%):	12
Depth(cm):	53-100	Total Silt(%):	46
pH in Calc Chloride:	7.4	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.174	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

### Component

Component ID:	OND09905914702	Components(%):	30
Soil Name ID:	ONCGUR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability: moderate limitations on use for crops



## Soil Information

<b>First CLI Limitation Subclass:</b>	Adverse soil structure (i.e. Depth of rooting zone is restricted)
<b>Second CLI Limitation Subclass:</b>	Loss of soil profile from Erosion
<b>Drainage:</b>	Imperfectly
<b>Soil Texture of A Horizon:</b>	clay loam
<b>Hydrological Soil Groups:</b>	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 Name

<b>Soil Name:</b>	CHINGUACOUSY
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Imperfectly drained
<b>Water Table Characteristics:</b>	Unspecified period
<b>Layer that Restricts Root Growth:</b>	Third layer
<b>Type of Root Restricting Layer:</b>	Compact Till
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Till (Morainal); Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	28
<b>Depth(cm):</b>	0-20	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.5	<b>Total Clay(%):</b>	30
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.417	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	9
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	24
<b>Depth(cm):</b>	20-48	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.2	<b>Total Clay(%):</b>	34
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.293	<b>Organic Carbon(%):</b>	0.4
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Btgj	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	48-60	<b>Total Silt(%):</b>	43
<b>pH in Calc Chloride:</b>	6	<b>Total Clay(%):</b>	40
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.216	<b>Organic Carbon(%):</b>	0.5

## Soil Information

### Conductivity(cm/h):

Electrical Conductivity(dS/m): 0

Layer No:	4	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	19
Depth(cm):	60-100	Total Silt(%):	41
pH in Calc Chloride:	7.6	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.149	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059170

### Component

Component ID:	OND09905917001	Components(%):	100
Soil Name ID:	ONJDDR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability: moderately severe limitations on use for crops.

#### First CLI Limitation

Subclass:

#### Second CLI Limitation

Subclass:

Drainage: Poorly

#### Soil Texture of A

Horizon:

#### 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 Name

Soil Name:	JEDDO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Characteristics:	Always
Layer that Restricts Root Growth:	Third layer
Type of Root Restricting Layer:	Compact Till
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition	Till (Morainal); Not Applicable; Not Applicable

## Soil Information

1,2,3:

Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

Layer No:	1	Very Fine Sand(%):	7
Horizon:	Ap	Total Sand(%):	19
Depth(cm):	0-18	Total Silt(%):	44
pH in Calc Chloride:	6.3	Total Clay(%):	37
Saturated Hydraulic Conductivity(cm/h):	0.402	Organic Carbon(%):	2.8
Electrical Conductivity(dS/m):	0		

Layer No:	2	Very Fine Sand(%):	8
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	18-37	Total Silt(%):	39
pH in Calc Chloride:	7.2	Total Clay(%):	41
Saturated Hydraulic Conductivity(cm/h):	0.268	Organic Carbon(%):	0.7
Electrical Conductivity(dS/m):	0		

Layer No:	3	Very Fine Sand(%):	6
Horizon:	Bg	Total Sand(%):	17
Depth(cm):	37-43	Total Silt(%):	40
pH in Calc Chloride:	6.1	Total Clay(%):	43
Saturated Hydraulic Conductivity(cm/h):	0.213	Organic Carbon(%):	0.6
Electrical Conductivity(dS/m):	0		

Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckg	Total Sand(%):	16
Depth(cm):	43-100	Total Silt(%):	40
pH in Calc Chloride:	7.7	Total Clay(%):	44
Saturated Hydraulic Conductivity(cm/h):	6.974	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059163

### Component

Component ID:	OND09905916301	Components(%):	100
Soil Name ID:	ONZUN~~~~~N	Slope Steepness(%):	Unknown or Not applicable
Component No:	1	Slope Length(m):	-9

## Soil Information

Surface Stoniness Class: Not Applicable

### Component Rating

Field Crops Capability:

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Drainage:

Soil Texture of A

Horizon:

Hydrological Soil

Groups:

### Soil Name

Soil Name: UNCLASSIFIED  
Kind of Surface Material: Unclassified  
Soil Drainage Class: Not applicable  
Water Table: Unspecified period  
Charateristics:  
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

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Polygon ID: OND099059159

### Component

Component ID:	OND09905915901	Components(%):	100
Soil Name ID:	ONJDDR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability: moderately severe limitations on use for crops.

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

## Soil Information

**Drainage:** Poorly

**Soil Texture of A Horizon:**

**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 Name

**Soil Name:** JEDDO

**Kind of Surface Material:** Mineral

**Soil Drainage Class:** Poorly drained

**Water Table Characteristics:** Always

**Layer that Restricts Root Growth:** Third layer

**Type of Root Restricting Layer:** Compact Till

**Parent Material 1, 2, 3:** Moderately Fine; Not Applicable; Not Applicable

**Mode of Deposition 1,2,3:** Till (Morainal); Not Applicable; Not Applicable

**Parent Material Chemical Property 1,2,3:** Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	19
<b>Depth(cm):</b>	0-18	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	6.3	<b>Total Clay(%):</b>	37
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.402	<b>Organic Carbon(%):</b>	2.8
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	8
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	20
<b>Depth(cm):</b>	18-37	<b>Total Silt(%):</b>	39
<b>pH in Calc Chloride:</b>	7.2	<b>Total Clay(%):</b>	41
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.268	<b>Organic Carbon(%):</b>	0.7
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	37-43	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	6.1	<b>Total Clay(%):</b>	43
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.213	<b>Organic Carbon(%):</b>	0.6
<b>Electrical Conductivity(dS/m):</b>	0		

## Soil Information

Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckg	Total Sand(%):	16
Depth(cm):	43-100	Total Silt(%):	40
pH in Calc Chloride:	7.7	Total Clay(%):	44
Saturated Hydraulic Conductivity(cm/h):	6.974	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059154

### Component

Component ID:	OND09905915401	Components(%):	100
Soil Name ID:	ONCGUR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam
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 Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Characteristics:	Unspecified period
Layer that Restricts Root Growth:	Third layer
Type of Root Restricting Layer:	Compact Till
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

## Soil Information

### Soil Layer

Layer No:	1	Very Fine Sand(%):	9
Horizon:	Ap	Total Sand(%):	28
Depth(cm):	0-20	Total Silt(%):	42
pH in Calc Chloride:	6.5	Total Clay(%):	30
Saturated Hydraulic Conductivity(cm/h):	0.417	Organic Carbon(%):	2.1
Electrical Conductivity(dS/m):	0		
Layer No:	2	Very Fine Sand(%):	9
Horizon:	Bmgj	Total Sand(%):	24
Depth(cm):	20-48	Total Silt(%):	42
pH in Calc Chloride:	6.2	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.293	Organic Carbon(%):	0.4
Electrical Conductivity(dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Btgj	Total Sand(%):	17
Depth(cm):	48-60	Total Silt(%):	43
pH in Calc Chloride:	6	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.216	Organic Carbon(%):	0.5
Electrical Conductivity(dS/m):	0		
Layer No:	4	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	19
Depth(cm):	60-100	Total Silt(%):	41
pH in Calc Chloride:	7.6	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.149	Organic Carbon(%):	0.1
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059109

### Component

Component ID:	OND09905910901	Components(%):	100
Soil Name ID:	ONJDDR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

# Soil Information

## Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

**First CLI Limitation**

**Subclass:**

**Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

**Soil Texture of A**

**Horizon:**

**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 Name

**Soil Name:** JEDDO

**Kind of Surface Material:** Mineral

**Soil Drainage Class:** Poorly drained

**Water Table** Always

**Charateristics:**

**Layer that Restricts Root** Third layer

**Growth:**

**Type of Root Restricting** Compact Till

**Layer:**

**Parent Material 1, 2, 3:** Moderately Fine; Not Applicable; Not Applicable

**Mode of Deposition** Till (Morainal); Not Applicable; Not Applicable

**1,2,3:**

**Parent Material Chemical** Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

**Property 1,2,3:**

## Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	19
<b>Depth(cm):</b>	0-18	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	6.3	<b>Total Clay(%):</b>	37
<b>Saturated Hydraulic</b>	0.402	<b>Organic Carbon(%):</b>	2.8
<b>Conductivity(cm/h):</b>			
<b>Electrical</b>	0		
<b>Conductivity(dS/m):</b>			

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	8
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	20
<b>Depth(cm):</b>	18-37	<b>Total Silt(%):</b>	39
<b>pH in Calc Chloride:</b>	7.2	<b>Total Clay(%):</b>	41
<b>Saturated Hydraulic</b>	0.268	<b>Organic Carbon(%):</b>	0.7
<b>Conductivity(cm/h):</b>			
<b>Electrical</b>	0		
<b>Conductivity(dS/m):</b>			

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	6
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## Soil Information

<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	17
<b>Depth(cm):</b>	37-43	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	6.1	<b>Total Clay(%):</b>	43
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.213	<b>Organic Carbon(%):</b>	0.6
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	43-100	<b>Total Silt(%):</b>	40
<b>pH in Calc Chloride:</b>	7.7	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	6.974	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

**Polygon ID:** OND099059065

### Component

<b>Component ID:</b>	OND09905906501	<b>Components(%):</b>	70
<b>Soil Name ID:</b>	ONMATR~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

### Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

#### **First CLI Limitation**

**Subclass:**

#### **Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

#### **Soil Texture of A**

**Horizon:**

#### **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 Name

<b>Soil Name:</b>	MALTON
<b>Kind of Surface Material:</b>	Mineral
<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table</b>	Unspecified period
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	No root restricting layer

## Soil Information

**Type of Root Restricting Layer:** n/a  
**Parent Material 1, 2, 3:** Moderately Fine; Fine; Not Applicable  
**Mode of Deposition 1,2,3:** Glaciolacustrine; Till (Morainal); Not Applicable  
**Parent Material Chemical Property 1,2,3:** Moderately / Very Strongly Calcareous; Weakly Calcareous; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	0-19	<b>Total Silt(%):</b>	46
<b>pH in Calc Chloride:</b>	7	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	3.5	<b>Organic Carbon(%):</b>	3.5
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	19-43	<b>Total Silt(%):</b>	45
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	42
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.32	<b>Organic Carbon(%):</b>	0.3
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	43-87	<b>Total Silt(%):</b>	49
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	2.372	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	11
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	29
<b>Depth(cm):</b>	87-100	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	27
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.199	<b>Organic Carbon(%):</b>	0
<b>Electrical Conductivity(dS/m):</b>	1		

### Component

<b>Component ID:</b>	OND09905906502	<b>Components(%):</b>	30
<b>Soil Name ID:</b>	ONPELR~~~~A	<b>Slope Steepness(%):</b>	1

## Soil Information

**Component No:** 2 **Slope Length(m):** -9  
**Surface Stoniness Class:** Nonstony

### Component Rating

**Field Crops Capability:** moderate limitations on use for crops  
**First CLI Limitation Subclass:** Adverse soil structure (i.e. Depth of rooting zone is restricted)  
**Second CLI Limitation Subclass:**  
**Drainage:** Imperfectly  
**Soil Texture of A Horizon:** silty clay  
**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 Name

**Soil Name:** PEEL  
**Kind of Surface Material:** Mineral  
**Soil Drainage Class:** Imperfectly drained  
**Water Table Characteristics:** Unspecified period  
**Layer that Restricts Root Growth:** Fourth layer  
**Type of Root Restricting Layer:** Compact Till  
**Parent Material 1, 2, 3:** Fine; Moderately Fine; Not Applicable  
**Mode of Deposition 1,2,3:** Glaciolacustrine; Till (Morainal); Not Applicable  
**Parent Material Chemical Property 1,2,3:** Weakly Calcareous; Moderately / Very Strongly Calcareous; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	4
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	14
<b>Depth(cm):</b>	0-10	<b>Total Silt(%):</b>	42
<b>pH in Calc Chloride:</b>	6.9	<b>Total Clay(%):</b>	44
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.337	<b>Organic Carbon(%):</b>	2.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Bmgj	<b>Total Sand(%):</b>	18
<b>Depth(cm):</b>	10-30	<b>Total Silt(%):</b>	35
<b>pH in Calc Chloride:</b>	5.9	<b>Total Clay(%):</b>	47
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.258	<b>Organic Carbon(%):</b>	1

## Soil Information

Electrical  
Conductivity(dS/m): 0

Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	30-48	Total Silt(%):	27
pH in Calc Chloride:	7.1	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.201	Organic Carbon(%):	0.6
Electrical Conductivity(dS/m):	0		

Layer No:	4	Very Fine Sand(%):	5
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	48-100	Total Silt(%):	38
pH in Calc Chloride:	7.7	Total Clay(%):	44
Saturated Hydraulic Conductivity(cm/h):	0.145	Organic Carbon(%):	0
Electrical Conductivity(dS/m):	0		

Polygon ID: OND099059076

### Component

Component ID:	OND09905907601	Components(%):	100
Soil Name ID:	ONMATR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

### Component Rating

Field Crops Capability: moderately severe limitations on use for crops.

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Drainage: Poorly

Soil Texture of A

Horizon:

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 Name

Soil Name: MALTON

Kind of Surface Material: Mineral

## Soil Information

<b>Soil Drainage Class:</b>	Poorly drained
<b>Water Table</b>	Unspecified period
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	No root restricting layer
<b>Type of Root Restricting Layer:</b>	n/a
<b>Parent Material 1, 2, 3:</b>	Moderately Fine; Fine; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Glaciolacustrine; Till (Morainal); Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Moderately / Very Strongly Calcareous; Weakly Calcareous; Not Applicable

### Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	0-19	<b>Total Silt(%):</b>	46
<b>pH in Calc Chloride:</b>	7	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	3.5	<b>Organic Carbon(%):</b>	3.5
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	19-43	<b>Total Silt(%):</b>	45
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	42
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.32	<b>Organic Carbon(%):</b>	0.3
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	43-87	<b>Total Silt(%):</b>	49
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	2.372	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		

<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	11
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	29
<b>Depth(cm):</b>	87-100	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	27
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.199	<b>Organic Carbon(%):</b>	0
<b>Electrical Conductivity(dS/m):</b>	1		

Polygon ID: OND099059035

## Soil Information

### Component

<b>Component ID:</b>	OND09905903501	<b>Components(%):</b>	100
<b>Soil Name ID:</b>	ONZUN~~~~~N	<b>Slope Steepness(%):</b>	Unknown or Not applicable
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Not Applicable		

### Component Rating

#### Field Crops Capability:

**First CLI Limitation**

**Subclass:**

**Second CLI Limitation**

**Subclass:**

**Drainage:**

**Soil Texture of A**

**Horizon:**

**Hydrological Soil**

**Groups:**

### Soil Name

<b>Soil Name:</b>	UNCLASSIFIED
<b>Kind of Surface Material:</b>	Unclassified
<b>Soil Drainage Class:</b>	Not applicable
<b>Water Table</b>	Unspecified period
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	No root restricting layer
<b>Type of Root Restricting Layer:</b>	n/a
<b>Parent Material 1, 2, 3:</b>	Not Applicable; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Not Applicable; Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Not Applicable; Not Applicable; Not Applicable

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**Polygon ID:** OND099059034

### Component

<b>Component ID:</b>	OND09905903401	<b>Components(%):</b>	100
<b>Soil Name ID:</b>	ONMATR~~~~~A	<b>Slope Steepness(%):</b>	1
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Nonstony		

# Soil Information

## Component Rating

**Field Crops Capability:** moderately severe limitations on use for crops.

### **First CLI Limitation**

**Subclass:**

### **Second CLI Limitation**

**Subclass:**

**Drainage:** Poorly

### **Soil Texture of A**

**Horizon:**

### **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 Name

**Soil Name:** MALTON

**Kind of Surface Material:** Mineral

**Soil Drainage Class:** Poorly drained

**Water Table** Unspecified period

### **Charateristics:**

**Layer that Restricts Root** No root restricting layer

**Growth:**

**Type of Root Restricting** n/a

**Layer:**

**Parent Material 1, 2, 3:** Moderately Fine; Fine; Not Applicable

**Mode of Deposition** Glaciolacustrine; Till (Morainal); Not Applicable

**1,2,3:**

**Parent Material Chemical** Moderately / Very Strongly Calcareous; Weakly Calcareous; Not Applicable

**Property 1,2,3:**

## Soil Layer

<b>Layer No:</b>	1	<b>Very Fine Sand(%):</b>	7
<b>Horizon:</b>	Ap	<b>Total Sand(%):</b>	16
<b>Depth(cm):</b>	0-19	<b>Total Silt(%):</b>	46
<b>pH in Calc Chloride:</b>	7	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic</b>	3.5	<b>Organic Carbon(%):</b>	3.5
<b>Conductivity(cm/h):</b>			
<b>Electrical</b>	0		
<b>Conductivity(dS/m):</b>			

<b>Layer No:</b>	2	<b>Very Fine Sand(%):</b>	6
<b>Horizon:</b>	Bg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	19-43	<b>Total Silt(%):</b>	45
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	42
<b>Saturated Hydraulic</b>	0.32	<b>Organic Carbon(%):</b>	0.3
<b>Conductivity(cm/h):</b>			
<b>Electrical</b>	0		
<b>Conductivity(dS/m):</b>			

## Soil Information

<b>Layer No:</b>	3	<b>Very Fine Sand(%):</b>	5
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	13
<b>Depth(cm):</b>	43-87	<b>Total Silt(%):</b>	49
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	38
<b>Saturated Hydraulic Conductivity(cm/h):</b>	2.372	<b>Organic Carbon(%):</b>	0.1
<b>Electrical Conductivity(dS/m):</b>	0		
<b>Layer No:</b>	4	<b>Very Fine Sand(%):</b>	11
<b>Horizon:</b>	Ckg	<b>Total Sand(%):</b>	29
<b>Depth(cm):</b>	87-100	<b>Total Silt(%):</b>	44
<b>pH in Calc Chloride:</b>	8	<b>Total Clay(%):</b>	27
<b>Saturated Hydraulic Conductivity(cm/h):</b>	0.199	<b>Organic Carbon(%):</b>	0
<b>Electrical Conductivity(dS/m):</b>	1		



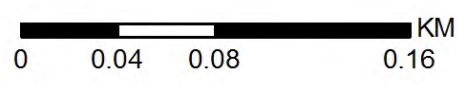
# Wells and Additional Sources



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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## Wells & Additional Sources



- ▲ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation



# Wells and Additional Sources



## Wells & Additional Sources



- ▲ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation



# Wells and Additional Sources Summary

## Federal Sources

### National Energy Board Wells

Map Key	ID	Distance (m)	Direction
No records found			

## Provincial Sources

### Ontario Oil and Gas Wells

Map Key	Licence NO	Distance (m)	Direction
3	F015303	205.43	SW
4	F015301	246.66	SE

### Provincial Groundwater Monitoring Network

Map Key	ID	Distance (m)	Direction
No records found			

### Water Well Information System

Map Key	Well ID	Distance (m)	Direction
1	6600465	133.13	NNW
2	7118253	195.7	NNW

## Private Sources

### Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
No records found			

# Wells and Additional Sources Detail Report

## Ontario Oil and Gas Wells

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
3	SW	0.21	205.43	188.83	OOGW

Well ID: Lot:  
 Well Status Type:: Natural Gas Well Conc:  
 Well Status Mode:: Abandoned Well Block::  
 Status As Of:: October 2016 Latitude: 42.90489917  
 Licence NO: F015303 Longitude: -78.94010389  
 W Class ID: 2362 County: Welland  
 UWI Code: F015303 Target:: SILURIAN  
 Permit Date: Classification::  
 Depth(m): 293.52 Capped Date: 7/16/1955  
 Depth Reached: 12/15/1948 Well Compl ID: 26990  
 Well Name:: Thomas DiMartile #2  
 Status Type Desc: A WELL PRESENTLY OR FORMERLY USED TO PRODUCE NATURAL GAS FROM A RESERVOIR  
 Status Mode Desc: A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED  
 Target Desc: TARGETS WITHIN THE CLINTON AND CATARACT (OR MEDINA) GROUPS (WHIRLPOOL TO IRONDEQUOIT FORMATIONS INCLUSIVE)  
 Classification Desc:

--Details--

Elevation / Top (m):	-79.61 / 267.61	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Cabot Head
Elevation / Top (m):	-52.79 / 240.79	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Irondequoit
Elevation / Top (m):	-85.71 / 273.71	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Whirlpool
Elevation / Top (m):	-61.33 / 249.33	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Grimsby
Elevation / Top (m):	187.7 / 0.3	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Drift
Elevation / Top (m):	-61.33 / 249.33	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Grimsby

## Wells and Additional Sources Detail Report

Elevation / Top (m):	50.23 / 137.77	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Guelph
Elevation / Top (m):	-90.28 / 278.28	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Queenston
Elevation / Top (m):	-25.97 / 213.97	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Rochester
Elevation / Top (m):	-52.79 / 240.79	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Irondequoit
Elevation / Top (m):	164.84 / 23.16	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	F Unit
Elevation / Top (m):	180.08 / 7.92	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Bois Blanc
Elevation / Top (m):	-79.61 / 267.61	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Cabot Head
Elevation / Top (m):	187.7 / 0.3	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Drift
Elevation / Top (m):	50.23 / 137.77	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Guelph
Elevation / Top (m):	-90.28 / 278.28	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Queenston
Elevation / Top (m):	164.84 / 23.16	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	F Unit
Elevation / Top (m):	-85.71 / 273.71	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF

## Wells and Additional Sources Detail Report

Static Level (m):	n/a	Geology Formation:	Whirlpool
Elevation / Top (m):	180.08 / 7.92	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Bois Blanc
Elevation / Top (m):	-25.97 / 213.97	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Rochester
Elevation / Top (m):	n/a / 28.96	Geology/Water:	Water
Type of Water:	Fresh	Source:	n/a
Static Level (m):	18.29	Geology Formation:	F Unit
Elevation / Top (m):	n/a / 182.88	Geology/Water:	Water
Type of Water:	Sulphur	Source:	n/a
Static Level (m):	18.29	Geology Formation:	Guelph
Elevation / Top (m):	180.08 / 7.92	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Top of Bedrock
Elevation / Top (m):	180.08 / 7.92	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Top of Bedrock

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
4	SE	0.25	246.66	189.06	OOGW

Well ID:	Lot::
Well Status Type::	Dry Hole
Well Status Mode::	Abandoned Well
Status As Of::	October 2016
Licence NO:	F015301
W Class ID:	2362
UWI Code:	F015301
Permit Date:	
Depth(m):	273.71
Depth Reached:	9/24/1948
Well Name::	Thomas DiMartile #1
Status Type Desc:	A WELL CLASSED AS EXPLORATORY OR DEVELOPMENT IN WHICH NO HYDROCARBONS HAVE BEEN ENCOUNTERED
Status Mode Desc:	A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED
Target Desc:	TARGETS WITHIN THE CLINTON AND CATARACT (OR MEDINA) GROUPS (WHIRLPOOL TO IRONDEQUOIT FORMATIONS INCLUSIVE)
Classification Desc:	

--Details--

## Wells and Additional Sources Detail Report

Elevation / Top (m):	-45.39 / 234.7	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Irondequoit
Elevation / Top (m):	-78.92 / 268.22	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Cabot Head
Elevation / Top (m):	178.94 / 10.36	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Top of Bedrock
Elevation / Top (m):	189 / 0.3	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Drift
Elevation / Top (m):	-8.81 / 198.12	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Rochester
Elevation / Top (m):	189 / 0.3	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Drift
Elevation / Top (m):	-56.97 / 246.28	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Grimsby
Elevation / Top (m):	178.94 / 10.36	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Top of Bedrock
Elevation / Top (m):	178.94 / 10.36	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Bois Blanc
Elevation / Top (m):	-45.39 / 234.7	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Irondequoit
Elevation / Top (m):	164.92 / 24.38	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	F Unit
Elevation / Top (m):	164.92 / 24.38	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	F Unit

## Wells and Additional Sources Detail Report

Elevation / Top (m):	65.86 / 123.44	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Guelph
Elevation / Top (m):	65.86 / 123.44	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Guelph
Elevation / Top (m):	178.94 / 10.36	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Bois Blanc
Elevation / Top (m):	n/a / 9.14	Geology/Water:	Water
Type of Water:	Fresh	Source:	n/a
Static Level (m):	-0.3	Geology Formation:	Drift
Elevation / Top (m):	-78.92 / 268.22	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Cabot Head
Elevation / Top (m):	-56.97 / 246.28	Geology/Water:	Geology
Type of Water:	n/a	Source:	FORM 7
Static Level (m):	n/a	Geology Formation:	Grimsby
Elevation / Top (m):	-8.81 / 198.12	Geology/Water:	Geology
Type of Water:	n/a	Source:	MNRF
Static Level (m):	n/a	Geology Formation:	Rochester

### Water Well Information System

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
1	NNW	0.13	133.13	191.10	WWIS

Well ID:	6600465	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	9/14/1955
Sec. Water Use:	0	Selected Flag:	1
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	5425
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	NIAGARA (WELLAND)
Elevation (m):		Municipality:	FORT ERIE TOWN (BERTIE)
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	001
Well Depth:		Concession:	02



## Wells and Additional Sources Detail Report

Overburden/Bedrock:		Concession Name:	NRF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			
Bore Hole ID:	10460199	Spatial Status:	
DP2BR:	14	Cluster Kind:	
Code OB:	r	UTMRC:	9
Code OB Desc:	Bedrock	UTMRC Desc:	unknown UTM
Open Hole:		Location Method:	p9
Elevation:	192.076339	Org CS:	
Elevrc:		Date Completed:	8/23/1955
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			

Formation ID:	932588951
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	9.00
Formation End Depth UOM:	ft

Formation ID:	932588952
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	

## Wells and Additional Sources Detail Report

Mat3:

Other Materials:

Formation Top Depth: 9.00

Formation End Depth: 14.00

Formation End Depth UOM: ft

Formation ID: 932588953

Layer: 3

Color:

General Color:

Mat1: 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 14.00

Formation End Depth: 43.00

Formation End Depth UOM: ft

Method Construction ID: 966600465

Method Construction Code: 1

Method Construction: Cable Tool

Other Method Construction:

Pipe ID: 11008769

Casing No: 1

Comment:

Alt Name:

Casing ID: 930747360

Layer: 1

Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To: 16.00

Casing Diameter: 6.00

Casing Diameter UOM: inch

Casing Depth UOM: ft

Casing ID: 930747361

Layer: 2

Material: 4

# Wells and Additional Sources Detail Report

Open Hole or Material: OPEN HOLE  
 Depth From:  
 Depth To: 43.00  
 Casing Diameter: 6.00  
 Casing Diameter UOM: inch  
 Casing Depth UOM: ft

Pump Test ID: 996600465  
 Pump Set At:  
 Static Level: 9.00  
 Final Level After Pumping: 12.00  
 Recommended Pump  
 Depth:  
 Pumping Rate: 9.00  
 Flowing Rate:  
 Recommended Pump  
 Rate:  
 Levels UOM: ft  
 Rate UOM: GPM  
 Water State After Test  
 Code: 1  
 Water State After Test: CLEAR  
 Pumping Test Method: 1  
 Pumping Duration HR: 0  
 Pumping Duration MIN: 30  
 Flowing: N

Water ID: 933947726  
 Layer: 1  
 Kind Code: 3  
 Kind: SULPHUR  
 Water Found Depth: 41.00  
 Water Found Depth UOM: ft

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
2	NNW	0.20	195.70	191.40	WWIS

Well ID: 7118253	Data Entry Status:
Construction Date:	Data Src:
Primary Water Use: Other	Date Received: 1/20/2009
Sec. Water Use:	Selected Flag: 1
Final Well Status: Test Hole	Abandonment Rec:
Water Type:	Contractor: 6607
Casing Material:	Form Version: 5
Audit No: M02456	Owner:
Tag: A069655	Street Name: 1148 THOMPSON RD.

## Wells and Additional Sources Detail Report

Construction Method:	County:	NIAGARA (WELLAND)
Elevation (m):	Municipality:	FORT ERIE TOWN
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 ID:	1001958618	Spatial Status:	
DP2BR:		Cluster Kind:	
Code OB:		UTMRC:	4
Code OB Desc:		UTMRC Desc:	margin of error : 30 m - 100 m
Open Hole:	N	Location Method:	wwr
Elevation:	192.740921	Org CS:	UTM83
Elevrc:		Date Completed:	6/9/2008
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			

Formation ID:	1002737544
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	05
Other Materials:	CLAY
Formation Top Depth:	0.00
Formation End Depth:	0.09
Formation End Depth UOM:	m

Formation ID:	1002737545
Layer:	2
Color:	2

## Wells and Additional Sources Detail Report

General Color: GREY  
Mat1: 06  
Most Common Material: SILT  
Mat2: 05  
Other Materials: CLAY  
Mat3: 34  
Other Materials: TILL  
Formation Top Depth: 0.09  
Formation End Depth: 3.10  
Formation End Depth UOM: m

Formation ID: 1002737546  
Layer: 3  
Color: 2  
General Color: GREY  
Mat1: 15  
Most Common Material: LIMESTONE  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 3.10  
Formation End Depth: 4.00  
Formation End Depth UOM: m

Plug ID: 1002737548  
Layer: 1  
Plug From: 0.00  
Plug To: 0.30  
Plug Depth UOM: m

Plug ID: 1002737549  
Layer: 2  
Plug From: 0.30  
Plug To: 1.00  
Plug Depth UOM: m

Method Construction ID: 1002737554  
Method Construction Code: 6  
Method Construction: Boring  
Other Method Construction:

Pipe ID: 1002737543

## Wells and Additional Sources Detail Report

Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1002737551  
Layer: 1  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From: 0.00  
Depth To: 0.10  
Casing Diameter: 5.90  
Casing Diameter UOM: cm  
Casing Depth UOM: m

Screen ID: 1002737552  
Layer: 1  
Slot: 10  
Screen Top Depth:  
Screen End Depth:  
Screen Material: 5  
Screen Depth UOM: m  
Screen Diameter UOM: cm  
Screen Diameter: 6.40

Water ID: 1002737550  
Layer: 1  
Kind Code: 1  
Kind: FRESH  
Water Found Depth:  
Water Found Depth UOM: m

Hole ID: 1002737547  
Diameter: 15.00  
Depth From: 0.00  
Depth To: 4.00  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Bore Hole ID: 1002737534  
DP2BR:  
Code OB:  
Code OB Desc:  
Open Hole:

Spatial Status:  
Cluster Kind: This is a record from cluster log sheet  
UTMRC: 3  
UTMRC Desc: margin of error : 10 - 30 m  
Location Method: wwr

## Wells and Additional Sources Detail Report

Elevation: 192.476211                      Org CS: UTM83  
Elevrc:    Date Completed: 6/9/2008  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location  
Source:  
Improvement Location  
Method:  
Source Revision  
Comment:  
Supplier Comment:

Plug ID: 1002737538  
Layer:  
Plug From:  
Plug To:  
Plug Depth UOM:

Method Construction ID: 1002737537  
Method Construction  
Code:  
Method Construction:  
Other Method                      BORING  
Construction:

Pipe ID: 1002737539  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1002737541  
Layer:  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From:  
Depth To: 1.00  
Casing Diameter:  
Casing Diameter UOM:  
Casing Depth UOM: m

Screen ID: 1002737540  
Layer:  
Slot:  
Screen Top Depth: 1.00

## Wells and Additional Sources Detail Report

Screen End Depth: 4.00  
 Screen Material:  
 Screen Depth UOM: m  
 Screen Diameter UOM:  
 Screen Diameter:

Pump Test ID: 1002737542  
 Pump Set At:  
 Static Level: 0.00  
 Final Level After Pumping:  
 Recommended Pump  
 Depth:  
 Pumping Rate:  
 Flowing Rate:  
 Recommended Pump  
 Rate:  
 Levels UOM: m  
 Rate UOM:  
 Water State After Test  
 Code:  
 Water State After Test:  
 Pumping Test Method:  
 Pumping Duration HR:  
 Pumping Duration MIN:  
 Flowing:

Hole ID: 1002737536  
 Diameter: 15.00  
 Depth From:  
 Depth To: 4.00  
 Hole Depth UOM: m  
 Hole Diameter UOM: cm

Bore Hole ID: 1002737516  
 DP2BR:  
 Code OB:  
 Code OB Desc:  
 Open Hole:  
 Elevation: 192.173995  
 Elevrc:  
 Remarks:  
 Elevrc Desc:  
 Location Source Date:  
 Improvement Location  
 Source:  
 Improvement Location  
 Method:  
 Source Revision

Spatial Status:  
 Cluster Kind: This is a record from cluster log  
 sheet  
 3  
 UTMRC:  
 UTMRC Desc: margin of error : 10 - 30 m  
 Location Method: wwr  
 Org CS: UTM83  
 Date Completed: 6/9/2008



## Wells and Additional Sources Detail Report

Comment:

Supplier Comment:

Plug ID: 1002737520

Layer:

Plug From:

Plug To:

Plug Depth UOM:

Method Construction ID: 1002737519

Method Construction

Code:

Method Construction:

Other Method  
Construction: BORING

Pipe ID: 1002737521

Casing No: 0

Comment:

Alt Name:

Casing ID: 1002737523

Layer:

Material: 5

Open Hole or Material: PLASTIC

Depth From:

Depth To: 0.90

Casing Diameter:

Casing Diameter UOM:

Casing Depth UOM: m

Screen ID: 1002737522

Layer:

Slot:

Screen Top Depth: 0.90

Screen End Depth: 3.90

Screen Material:

Screen Depth UOM: m

Screen Diameter UOM:

Screen Diameter:

Pump Test ID: 1002737524

## Wells and Additional Sources Detail Report

Pump Set At:  
Static Level: 0.00  
Final Level After Pumping:  
Recommended Pump  
Depth:  
Pumping Rate:  
Flowing Rate:  
Recommended Pump  
Rate:  
Levels UOM: m  
Rate UOM:  
Water State After Test  
Code:  
Water State After Test:  
Pumping Test Method:  
Pumping Duration HR:  
Pumping Duration MIN:  
Flowing:

Hole ID: 1002737518  
Diameter: 15.00  
Depth From:  
Depth To: 3.90  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Bore Hole ID: 1002737525  
DP2BR:  
Code OB:  
Code OB Desc:  
Open Hole:  
Elevation: 191.963104  
Elevrc:  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location  
Source:  
Improvement Location  
Method:  
Source Revision  
Comment:  
Supplier Comment:

Spatial Status:  
Cluster Kind: This is a record from cluster log  
sheet  
3  
UTMRC:  
UTMRC Desc: margin of error : 10 - 30 m  
Location Method: wwr  
Org CS: UTM83  
Date Completed: 6/9/2008

Plug ID: 1002737529  
Layer:  
Plug From:  
Plug To:

## Wells and Additional Sources Detail Report

Plug Depth UOM:

Method Construction ID: 1002737528  
Method Construction  
Code:  
Method Construction:  
Other Method  
Construction: BORING

Pipe ID: 1002737530  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1002737532  
Layer:  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From:  
Depth To: 0.89  
Casing Diameter:  
Casing Diameter UOM:  
Casing Depth UOM: m

Screen ID: 1002737531  
Layer:  
Slot:  
Screen Top Depth: 0.89  
Screen End Depth: 3.80  
Screen Material:  
Screen Depth UOM: m  
Screen Diameter UOM:  
Screen Diameter:

Pump Test ID: 1002737533  
Pump Set At:  
Static Level: 0.00  
Final Level After Pumping:  
Recommended Pump  
Depth:  
Pumping Rate:  
Flowing Rate:  
Recommended Pump  
Rate:  
Levels UOM: m

## Wells and Additional Sources Detail Report

Rate UOM:

Water State After Test

Code:

Water State After Test:

Pumping Test Method:

Pumping Duration HR:

Pumping Duration MIN:

Flowing:

Hole ID: 1002737527

Diameter: 15.00

Depth From:

Depth To: 3.80

Hole Depth UOM: m

Hole Diameter UOM: cm

## Radon Information

Detailed radon information for the project property is provided below.

### Radon Zone Information

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**ID:** 144850 **Radon Rank:** HIGH

### Health Canada Radon Information

---

**Health Region:** 3546  
**Health Region Name:** Niagara Regional Area Health Unit  
**Province or Territory:** ON  
**Number Homes in Survey:** 100  
**% Below 200 Bq/m3:** 98  
**% Above 200 Bq/m3:** 2  
**200 to 600 Bq/m3:** 0  
**% Above 600 Bq/m3:** 2

## Area of Natural and Scientific Interest Information

There is no ANSI unit available in this area.

## Area of Natural and Scientific Interest Information

Detailed ANSI information is provided below.

No records found for the project property or surrounding properties.

## Federal Sources

### Bedrock Geology of Canada

The Geological Map of Canada is scaled at 1:5,000,000. This map is created by Geological Survey of Canada and published by Natural Resources Canada.

**BEDROCK GEOLOGY**

### Health Canada Radon Information

This source is the results from the Cross-Canada Survey of Radon Concentrations in Homes, a two-year study conducted by Health Canada's National Radon Program. The aims of this study were to obtain an estimate of the proportion of the Canadian population living in homes with radon gas levels above the guideline of 200 Bq/m<sup>3</sup>, to identify previously unknown areas where radon gas exposure may constitute a health risk, and to build, over time, a map of indoor radon gas exposure levels across Canada.

**RADON**

### National Energy Board Wells

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.

**NEBW**

### Soil Landscapes of Canada (SLC)

Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.

**SLC**

### Surficial Geology of Canada

This map contains information on surficial materials and associated landforms left by the retreat of the last glaciers and non glacial environments. It is based on compilation of existing maps. This data was authored by the Geological Survey of Canada and published by Natural Resources Canada.

**SURFICIAL GEOLOGY**

### Toporama

Toporama covers the entire area of Canada's landmass and provides topographic, geo-referenced, and symbolic information in a raster format at 1:50,000 scale. This is a digital topographic reference product made available by Natural Resources Canada (NRCan).

**TOPORAMA**

## Provincial Sources

### Area of Natural and Scientific Interest

Areas of Natural and Scientific Interest (ANSIs) are lands and waters with features that are important for natural heritage protection, appreciation, scientific study or education. This dataset is made available by Ontario Ministry of Natural Resources.

**ANSI**

### Bedrock Geology of Ontario

The Bedrock Geology layer shows the distribution of bedrock units underlying Ontario at a 1:250,000 scale. The geology of the province consists of Precambrian rocks of the Canadian Shield and Phanerozoic sedimentary rocks that overlie the Canadian Shield. This layer was compiled by the Precambrian Geoscience Section of Ontario Geological Survey.

**BEDROCK GEOLOGY**

### Ontario Detailed Soil Survey (DSS3)

Soil surveys have been published for most of the agricultural areas, and many surrounding areas, across Canada. Data from these surveys comprise the most detailed soil inventory information in the National Soil DataBase. Data is made available by Agriculture and Agri-Food Canada

**SOIL SURVEY**

### Ontario Oil and Gas Wells

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.

**OOGW**

### Provincial Groundwater Monitoring Network

**GROUNDWATER**



## Appendix

Groundwater level and chemistry data from monitoring wells that are part of the Provincial Groundwater Monitoring Network (PGMN) Program. Precipitation data (rain) is also available for some sites. This data is provided by Ontario Ministry of Environment and Climate Change.

### **Surficial Geology of Ontario**

The Surficial Geology dataset contains a layer depicting the distribution and characteristics of surficial deposits across southern Ontario. This data set is authored by the Ontario Geological Survey.

**SURFICIAL GEOLOGY**

### **Topographic Map of Ontario**

The Ontario Basic Mapping program provides a relationship between topographic information and the provincial geographical referencing grid, thereby forming the foundation for a comprehensive provincial geographical referencing system. This data is made available by the Ontario Ministry of Natural Resources and Forestry. This is ERIS self-designed topographic map template at 1:10,000.

**TOPOGRAPHIC MAP**

### **Water Well Information System**

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.

**WWIS**

### **Wetlands of Ontario**

The Ministry of Natural Resources and Forestry has made available a database of wetlands in Ontario. Certain attributes identify wetlands that have been evaluated with the Ontario Wetland Evaluation System (OWES), and of those which ones have been designated as Provincially Significant Wetlands (PSW).

**WETLAND**

## **Private Sources**

### **Oil and Gas Wells**

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](http://www.nickles.com).

**OGW**

### **Radon Zone Information**

The Radon Potential Map is developed by Radon Environmental Management Corporation. Its objective was to illustrate the relative variation of radon risk across the country, and in 2011 it published its first geologic Radon Potential Map of Canada.

**RADON**

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**APPENDIX VI**  
**SITE PHOTOGRAPHS**



# PHOTOGRAPHIC LOG

**Client:** 2350048 ONTARIO LTD.

**Site Location:** 644 Garrison Road, Fort Erie

**Project No:** CB1041.00

**Photo No:** 1

**Date:** October 3, 2017

**Viewing Direction:**  
Northeast

**Description:**

View of the southwest portion of the Site.



**Photo No:** 2

**Date:** October 3, 2017

**Viewing Direction:**  
South

**Description:**

View of the eastern portion of the Site.



**Client:** 2350048 ONTARIO LTD.**Site Location:** 644 Garrison Road, Fort Erie**Project No:** CB1041.00**Photo No:** 3**Date:** October 3, 2017**Viewing Direction:**  
Northwest**Description:**

View of the northwest portion of the Site.

**Photo No:** 4**Date:** October 3, 2017**Viewing Direction:**  
East**Description:**

View of large concrete debris on southwest portion of the property.



**Client:** 2350048 ONTARIO LTD.

**Site Location:** 644 Garrison Road, Fort Erie

**Project No:** CB1041.00

**Photo No:** 5

**Date:** October 11, 2017

**Viewing Direction:**  
Southeast

**Description:**

View of the eastern property boundary. Note the general storage debris from the neighbouring property, adjacent to the east.


**Photo No:** 6

**Date:** October 3, 2017

**Viewing Direction:**  
Southwest

**Description:**

View of the Golden Nugget Gaming Center on the south side of Garrison Road.



**Client:** 2350048 ONTARIO LTD.

**Site Location:** 644 Garrison Road, Fort Erie

**Project No:** CB1041.00

**Photo No:** 7

**Date:** October 3, 2017

**Viewing Direction:**  
Northwest

**Description:**

View of the commercial plaza, adjacent to the west of the Site.


**Photo No:** 8

**Date:** October 11, 2017

**Viewing Direction:**  
North

**Description:**

View of the residential properties, adjacent to the north of the Site.



**APPENDIX VII**  
**QUALIFICATIONS OF THE ASSESSOR**



**Education:** B.Sc. Biology and Environmental Studies 1990 Brock University,  
St. Catharines

**Professional Associations:** Association of Professional Geoscientists of Ontario

**Safety Training:** Standard First Aid and CPR  
Petroleum Oriented Safety Training (POST)  
Workplace Hazardous Materials Information System (WHMS)

**Continuing Education:** Project Management Training (F&M Management Ltd.)

## **EXPERIENCE**

### **2000 to present – Terrapex Environmental Ltd., Burlington, Ontario**

#### **Senior Project Manager**

Responsible for management of a wide range of site assessment and remediation projects for a diverse client base. Responsibilities include direct accountability to clients for development and successful completion of projects on time and on budget. Project duties include preparation of proposals and budgets, funding and regulatory agency submissions and liaison, project design, allocation of resources, provision of technical and remote logistics expertise, preparation of Records of Site Condition, and preparation and senior review of reports.

Typical projects include:

- Environmental Issues Inventory (EII) Phase II and III Environmental Site Assessments (ESA)
- Geo-Environmental Assessment of soil and groundwater
- Management/Remediation of contaminated soil and groundwater
- Records of Site Condition
- Compliance Audits

### **1996 to 2000 – Conor Pacific Environmental Technologies Inc., Mississauga, Ontario**

#### **Project Manager, Assessment and Remediation**

Duties and responsibilities include:

- Complete project management including project design, cost projection, budget tracking, scheduling, client/regulatory agency liaison, and supervision of project team members.
- Design and implementation of environmental investigation projects in accordance with Federal, Provincial, and Municipal protocols
- Development, implementation, and supervision of remedial action plans for contaminated sites
- Development of INAC project submissions, tender documents, engineering specifications, and contracts for assessment and remediation projects
- Preparation of detailed proposals and cost estimates for complex and simple projects
- Liaison with and presentation to clients, government agencies, contractors, and the public
- Business development and marketing

**1990 to 1996 – Arcturus Environmental Limited, Niagara Falls, Ontario****Project Manager and Technical Coordinator**

Duties and responsibilities include:

- Management of Phase I, II and III Environmental Site Assessments (ESA), and soil and groundwater remediation projects
- Design and implementation of environmental investigation projects in accordance with Federal, Provincial, and Municipal protocols
- Project design, costing, and proposal preparation for site assessments and remediation projects
- Coordination, supervision and management of Phase I, II and III Environmental Site Assessments; sediment and surface water sampling programs; and soil and groundwater remediation projects
- Performed assessment tasks including; supervision of drilling operations, soil logging and sampling

**SELECTED PROJECT EXPERIENCE****Phase I Environmental Site Assessments**

Transport Canada: Phase I assessments of approximately 10 airport non-directional beacon sites in Ontario.

CN Real Estate: Phase I assessments of approximately 6 Rail Yard Sites in Ontario.

Rentway Ltd.: Phase I assessments of approximately 5 truck maintenance facilities in Ontario.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Phase I assessments of 40 Canada Coast Guard, Marine Communications and Search and Rescue Sites in Ontario.

Suncor Energy Products Partnership: Ontario Regulation 153/04 compliant Phase One ESAs to support filing of Records of Site Conditions at retail fuel outlet properties at approximately 50 sites in Ontario.

Clarkway Construction Company: Ontario Regulation 153/04 compliant Phase One ESAs to support filing of Records of Site Conditions at various development properties at approximately 10 sites in Ontario.

CRAFT Developments Corp.: Ontario Regulation 153/04 compliant Phase One ESAs to support filing of Records of Site Conditions at various commercial development properties at approximately 5 sites in Ontario.

Mattamy Homes Inc.: Phase One ESAs to support filing of Records of Site Conditions at various residential development properties at approximately 20 sites in Ontario.

City of Mississauga: Ontario Regulation 153/04 compliant Phase One ESAs at 5 park sites in Mississauga.

Private: Phase I assessments of approximately 120 residential, commercial, and industrial sites for various private clients.

**Phase II Environmental Site Assessments**

Suncor Energy Products Partnership (formerly Petro-Canada): Senior Manager and contact for preferred supplier agreement: Project manager for 350+ Phase II assessments of petroleum storage and distribution facilities.

Quadra FNX Mining Ltd.: Senior Project Manager for historical research and environmental assessment of abandoned 19<sup>th</sup> century remote mine site and preparation of mine hazard inventory.

Holcim Canada/Dufferin Concrete: Senior Project Manager and contact for 10+ Phase II Environmental Site Assessments at material plants.

City of Mississauga: Senior Project Manager for 5 environmental site assessments including risk assessment and development of risk management plans for flyash deposits or fill materials in City park lands.

Sun-Canadian Pipe Line Company: Senior Project Manager for monitoring and assessment of systems at several pipe line valve sites and pump stations.

Craft Development Corporation: Senior Project Manager for Phase II site assessments on several pre-development lands for due diligence and financial assurance.

United Petroleum Inc. (UPI): Senior Project Manager for 20+ Phase II assessments of petroleum storage and distribution facilities.

Ultramar Inc.: Senior Project Manager for 20+ Phase II assessments of petroleum storage and distribution facilities.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for Phase II assessments of 4 Canada Coast Guard, Marine Communications and Light station Sites in Ontario.

Sunoco Inc.: Project Manager for assessments of soil and groundwater at approximately 35 retail petroleum outlets and three distribution terminals in Ontario.

Petro-Canada: Technical Coordinator/Field Supervisor/ for soil and groundwater assessments at approximately 30 retail petroleum outlets, and six bulk terminals across Ontario.

ICG Propane: Project Manager for soil and groundwater assessments of approximately three retail outlets in Ontario.

United Co-op: Technical Coordinator/Field Supervisor for assessments of soil and groundwater at approximately 8 bulk petroleum outlets in Ontario.

CP Rail: Field Supervisor for assessments of soil and groundwater at 8 major rail yards and subdivision in Ontario.

CN Real Estate: Field Supervisor for assessments of soil and groundwater at two major rail yards in Ontario.

Department of National Defence/Public Works Canada: Field Supervisor for an assessment of fuel oil contaminated soil at approximately 300 military housing facilities at CFB Borden.

Transport Canada: Project Manager for assessment of soil and groundwater at approximately 13 NDB and airport sites in Ontario.

RCMP and Public Works and Government Services Canada: Technical Coordinator/Field Supervisor for environmental impact assessment at a former RCMP firing range

CIBC: Project Manager for Phase II and Phase III assessment of soil and groundwater on residential properties in Ontario.

Rentway Ltd.: Project Manager for assessment of soil and groundwater at approximately 5 truck maintenance facilities in Ontario.

Hydro One Remotes: Project Manager for assessment of soil and groundwater at a diesel generating station in Kingfisher Lake, Ontario, including remedial options feasibility study qualitative risk assessment, and development of a remedial action plan.

Suncor Energy Products Partnership: Ontario Regulation 153/04 compliant Phase Two ESAs to support filing of Records of Site Conditions at retail fuel outlet properties at approximately 50 sites in Ontario.

Clarkway Construction Company: Ontario Regulation 153/04 compliant Phase Two ESAs to support filing of Records of Site Conditions at various development properties at approximately 10 sites in Ontario.

CRAFT Development Corp.: Ontario Regulation 153/04 compliant Phase Two ESAs to support filing of Records of Site Conditions at various commercial development properties at approximately 5 sites in Ontario.

Mattamy Homes Inc.: Phase Two ESAs to support filing of Records of Site Conditions at various residential development properties at approximately 20 sites in Ontario.

City of Mississauga: Ontario Regulation 153/04 compliant Phase One ESAs at 5 park sites in Mississauga.

City of Mississauga: Preparation of Site Sensitivity Analysis for street sweepings dump sites, consultation with the City and Phase II ESAs at two of the receiving properties.

Records of Site Condition: Approximately 100 Records of Site Condition prepared, submitted to and acknowledged by the MOEE, MOE, or MOECC since 1995.

### **Hazardous and Non-Hazardous Site Remediation**

Mattamy Homes Inc.: Senior Project Manager for large-scale remediation of former asphalt plant property for residential brownfield development.

Suncor Energy Inc. (formerly Petro-Canada): Senior Manager and contact for preferred supplier agreement: Project manager for 160+ site decommissioning and remediation projects at petroleum storage and distribution facilities in Ontario.

Petro-Canada: Senior Manager of large-scale in-situ multi-technology soil and groundwater remediation system covering a former distribution terminal and surrounding private properties in Toronto.

Ultramar Inc.: Senior Project Manager for large scale ex-situ bioremediation at former heating oil distribution terminal in Ontario.

United Petroleum Inc. (UPI): Senior Project Manager for 10+ decommissioning and remediation projects at petroleum storage and distribution facilities.

Sunoco Inc.: Project Manager/Technical Coordinator for decommissioning and remediation of approximately 55 retail petroleum outlets and two distribution terminals in Ontario.

Petro Canada: Technical Coordinator/Field Supervisor for decommissioning and remediation of approximately 20 retail petroleum outlets and three distribution terminals in Ontario.

RCMP and Public Works and Government Services Canada: Project Manager for a delineation study, remedial action plan, and hazardous soil remediation at a former RCMP firing range in Ontario.

Timminco Metals: Project Manager for hazardous chlorinated solvent remediation including remedial action plan development, recovery and treatment system design, and project implementation at a former Adhesives plant in Ontario.

Fort Albany First Nation: Project Manager/Technical Coordinator for an on-site surface water and groundwater pumping and treatment and ex-situ soil bioremediation project at a Contractor's camp in the community of Fort Albany, including project design, approvals, and implementation.

Kingfisher Lake First Nation: Project Manager for a large scale soil bio-remediation project in the community of Kingfisher Lake, including project design, approvals, and implementation.

Kasabonika Lake First Nation: Project Manager for a large scale soil bio-remediation project in the community of Kasabonika Lake, including project design, approvals, and implementation.

Transport Canada: Project Manager for underground storage tank decommissioning and remediation at three airport sites in Ontario.

CIBC: Project Manager for remediation of impacted soils at a residential property in Ontario including temporary relocation of a residential structure.

Rentway Ltd.: Project Manager for remediation of three truck maintenance facilities in Ontario.

Suncor Energy Products Partnership: Ontario Regulation 153/04 compliant Remedial Excavations to support filing of Records of Site Conditions at retail fuel outlet properties at approximately 50 sites in Ontario.

Clarkway Construction Company: Ontario Regulation 153/04 compliant Remedial Excavations to support filing of Records of Site Conditions at various development properties at approximately 10 sites in Ontario.

CRAFT Development Corp.: Ontario Regulation 153/04 compliant Remedial Excavations to support filing of Records of Site Conditions at various commercial development properties at approximately 5 sites in Ontario.

### **Compliance Audits**

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for storage tank audits at 25 Canada Coast Guard, Marine Communications, Search and Rescue, and Light station Sites in Ontario.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for halocarbon surveys at 30 Canada Coast Guard, Marine Communications, Search and Rescue, and Light station Sites in Ontario.

### **Records of Site Condition**

Records of Site Condition: Approximately 100 Records of Site Condition prepared, submitted to and acknowledged by the MOEE, MOE, or MOECC since 1995 for various clients.

### **Consultation and Expert Witness**

City of Burlington: Advised City of Burlington Engineering Staff and Council regarding fill issues at Burlington Executive Airpark, and provided expert witness testimony on behalf of the City for two related court motions.

**Position:** Senior Environmental Technologist, Burlington Office

**Qualifications:** Niagara College: Environmental Technician (Field & Lab) – Diploma  
ECO Canada Environmental Professional (EP)

**Experience:**

Terrapex Environmental Ltd.	2007 - present
The City of Hamilton – Public Health	April 2007 – August 2007
The City of Hamilton – Waste Management	Jan 2006 – September 2006
The Region of Niagara – Water and Waste Water	April 2005 – Sep 2005

Mr. Chhan graduated from Niagara College in 2007 with an Environmental Technician Diploma. He has been employed in the environmental industry for ten years, and his experience includes conducting Phase I, II, and III ESAs, monitoring programs, storage tank removal programs, retail outlet decommissioning, and site remediation projects. Office duties include data input and interpretation, reporting, editing site drawings, and co-ordination of projects.

**Representative projects include the following:**

Public Works Government Services of Canada: Supervised drilling for soil samples and monitoring well installations to obtain groundwater samples. Involved in management and containment of contamination to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site. Supervised the decommissioning of an underground storage tank and the removal of impacted soil. Was responsible for analyzing mercury-impacted soil, in order to delineate impacts.

The City of Mississauga: Completion of Phase II ESAs and involved in monitoring and assessment at sites across Mississauga. Tasks included supervision of drilling for soil samples, monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the implementation of a risk management plan by directing and confirming adequate imported soil cover of impacted soil by hand digging and survey point elevations.

Suncor Energy Products Partnership Inc: Completion of Phase I/II ESAs and site decommissioning on several sites across Southern Ontario. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the decommissioning of underground storage tanks, or piping upgrades, and/or the removal of contaminated soil at numerous retail petroleum outlets across Ontario. Assisted with management and treatment of groundwater contamination at 2 sites in Ontario.

Transport Canada: Supervised site remediation and drilling for soil samples and monitoring well installations to obtain groundwater samples. Involved in management and containment of contamination to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site.

Parkland Fuel Corporation: Completion of Phase II ESAs and site decommissioning on several sites across Southern Ontario. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the decommissioning of underground storage tanks, or piping upgrades, and/or the removal of contaminated soil at numerous retail petroleum outlets across Ontario.

Canadian Tire Real Estate Ltd: Involved in management and containment of petroleum hydrocarbon impacts to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site. Supervised hoist decommissioning at several sites across southern Ontario.

Ultramar Inc: Completion of Phase II ESA and involved in monitoring, assessment, management and containment of petroleum hydrocarbon impacts to prevent migration off-site, and reduce impacts onsite. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells.