

Empire (Grand Niagara) Project GP Inc.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

GRAND NIAGARA, NIAGARA FALLS, ONTARIO

JUNE 21, 2022 (UPDATED JANUARY 30, 2023)

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1.0 EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by Empire (Grand Niagara) Project GP Inc. (Empire) to conduct a Phase One Environmental Site Assessment (ESA) of the Grand Niagara Development Lands located in Niagara Falls, Ontario (hereinafter referred to as the "Site" or the "Phase One Property"). It is understood that this Phase One ESA report is required in support of a Draft Plan of Subdivision and Zoning Amendment application and the subsequent filing of one or more Records of Site Condition (RSCs) under the *Environmental Protection Act* per Ontario Regulation (O. Reg.) 153/04 to facilitate the proposed development of the Site as a mixed-use residential community.

The objective of the study was to identify actual and potential sources of contamination associated with the Site arising from current and/or historical activities on the Site and the Phase One study area in order to satisfy the following Phase One ESA general objectives listed in O. Reg. 153/04:

- to develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One property;
- to determine the need for a Phase Two ESA;
- to provide a basis for carrying out any Phase Two ESA required; and,
- if necessary, to provide adequate preliminary information about environmental conditions in the land or water on, in or under the Phase One property for the conduct of a Risk Assessment following completion of a Phase Two ESA.

The Grand Niagara Development Lands include approximately 185 hectares of land located north of Biggar Road, south of the Welland River, east of Crowland Avenue, and west of the Queen Elizabeth Way (QEW) highway in the City of Niagara Falls, Ontario. The Site consists of three non-contiguous parcels of land, which are divided by Grassy Brook Road and a Canadian Pacific rail line. The majority of the Grand Niagara Development Lands are presently occupied by the Grand Niagara Golf Course, with some residential lands and active agricultural lands along Grassy Brook Road.

The Site is located within an "area of natural significance" as defined in O. Reg. 153/04 due to the presence of:

- provincially significant wetlands (i.e., the Lower Grassy Brook PSW, Lyons Creek North PSW, and Welland River East PSW complexes);
- significant habitat for threatened and endangered species (i.e., Bobolink, Eastern Meadowlark, Barn Swallow, Chimney Swift, Bank Swallow, and American Water Willow); and,

 environmental protection areas, environmental conservation areas, and potential natural heritage corridors, as identified in the City of Niagara and the Niagara Region Official Plans.

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance, Terrapex identified seven areas of potential environmental concern (APECs) at the Site, resulting from one on-Site potentially contaminating activity (PCA) and five off-site PCAs or incidents of potential environmental concern with the potential to impact the environmental condition of the Site.

A summary of the PCAs, APECs, and associated contaminants of potential concern (COPCs) identified by the Phase One ESA study is provided in the following table.

APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 1	Outside of the entrance to the Golf Course Clubhouse and Restaurant at 8547 Grassy Brook Road	55 - Transformer Manufacturing, Processing and Use	On-Site	1.1.7 Polychlorinated Biphenyls (PCBs) 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Soil
APEC 2A	Immediately <u>north</u> of the off-Site CP rail line	46 - Rail Yards, Tracks and Spurs	Off-Site	1.2.2 Metals 1.2.3 Metals, Hydride-Forming 1.3 Other Regulated Parameters (ORPs) PAHs 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater
APEC 2B	Immediately <u>south</u> of the off-Site CP rail line	46 - Rail Yards, Tracks and Spurs	Off-Site	1.2.2 Metals 1.2.3 Metals, Hydride-Forming 1.3 Other Regulated Parameters (ORPs) PAHs 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater

APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 3A	9127 Montrose Road, adjoining property on the west side of Montrose Road, bordering the northeastern Site boundary	29 - Glass Manufacturing	Off-Site	1.2.2 Metals 1.2.3 Metals, Hydride-Forming 1.3 Other Regulated Parameters (ORPs) 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs) 1.1.10 VOCs	Groundwater
APEC 3B		34 - Metal Fabrication	Off-Site	1.2.2 Metals 1.2.3 Metals, Hydride-Forming 1.3 Other Regulated Parameters (ORPs) 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs) 1.1.10 VOCs	Groundwater
APEC 3C		28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater
APEC 4	9733 Crowland Avenue, Golf Course Maintenance Facility located on the western side of Crowland Avenue and approximately 30 m from the central - western Site boundary.	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater

Based on the findings of the Phase One ESA, several APECs have been identified at the Site; therefore, a Phase Two ESA is required in order to file an RSC for the Phase One Property in accordance with the requirements of O. Reg. 153/04.

An RSC cannot be filed for the Phase One Property based solely on this Phase One ESA.

2.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by Empire (Grand Niagara) Project GP Inc. (Empire) to conduct a Phase One Environmental Site Assessment (ESA) of the Grand Niagara Development Lands located in Niagara Falls, Ontario (the "Phase One Property", hereinafter referred to as the "Site"). It is understood that this Phase One ESA report is required in support of a Draft Plan of Subdivision and Zoning Amendment application and the subsequent filing of one or more Records of Site Condition (RSCs) under the *Environmental Protection Act* per Ontario Regulation (O. Reg.) 153/04 to facilitate the proposed development of the Site as a mixed-use residential community.

2.1 OBJECTIVE

The objective of the study was to identify actual and potential sources of contamination associated with the Site arising from current and/or historical activities on the Site and on properties partly or wholly within 250 m of the Site (i.e., the "Phase One Study Area") in order to satisfy the following Phase One ESA general objectives listed in O. Reg. 153/04:

- to develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One property;
- to determine the need for a Phase Two ESA;
- to provide a basis for carrying out any Phase Two ESA required; and,
- if necessary, to provide adequate preliminary information about environmental conditions in the land or water on, in or under the Phase One property for the conduct of a Risk Assessment following completion of a Phase Two ESA.

2.2 PHASE ONE PROPERTY INFORMATION

Information regarding the location and identification of the Phase One Property and the party authorizing this study is provided in Table 1 below.

Grand Niagara includes approximately 185 hectares of land located north of Biggar Road, south of the Welland River, east of Crowland Avenue, and west of the Queen Elizabeth Way (QEW) in the City of Niagara Falls, Ontario.

The Site consists of three non-contiguous parcels of land, which are divided by Grassy Brook Road and a Canadian Pacific (CP) rail line. The majority of the Grand Niagara Development Lands are presently occupied by the Grand Niagara Golf Course, with some residential lands and active agricultural lands along Grassy Brook Road.

Refer to Figure 1 for the location of the Site, and to Figure 2 for the general layout of the Site at the time of the site reconnaissance.

Municipal Address:	8218, 8228 and 8547 Grassy Brook Road, Niagara Falls, ON (Please note that municipal addresses have not been assigned to the balance of the lands)
Legal Description:	Part of Lots 1, 2, 3 and 4, Broken Front Concession, Geographic Township of Crowland, now in the City of Niagara Falls, Regional Municipality of Niagara
UTM Coordinates (centre of site, NAD83):	17T East: 651956 North: 4767073
Name and Address of Owner:	Empire (Grand Niagara) Project GP Inc.
Name and Address of Authorizing Party:	John Castro, Empire (Grand Niagara) GP Inc.
Site Area (m ²):	Approximately 1,856,000 m ²
Structures:	Four including the clubhouse and restaurant for Grand Niagara Golf Club at 8547 Grassy Brook Road; residential dwellings at 8218 and 8228 Grassy Brook Road
Occupants (current):	Occupants include the Grand Niagara Golf Club, tenant farmers, and residents at 8218 and 8228 Grassy Brook Road

TABLE 1: PHASE	ONE PROPERTY	INFORMATION

It is understood that Empire (Grand Niagara) Project GP Inc. is the General Partner of Empire (Grand Niagara) Project LP Inc.; and, Empire (Grand Niagara) LP Inc. is a Limited Partner in Empire (Grand Niagara) Project LP Inc.

2.3 PLAN OF SURVEY

Empire provided a survey plan for the Site titled, "Plan of Survey of Part of Lots 1,2,3 and 4, Broken Front Concession, Geographical Township of Crowland, now in the City of Niagara Falls, prepared by GeoVerra (ON) Ltd. The Plan of Survey was provided in draft format; the Surveyor's Certificate was not signed and dated. A copy of the plan of survey is included in Appendix I.

2.4 ENHANCED INVESTIGATION PROPERTY

An enhanced investigation property is defined in O. Reg. 153/04 as a property that is being used or has been used, in whole or in part, for an industrial use or for commercial use as a garage, a bulk liquid dispensing facility (including a gasoline outlet), or for the operation of dry-cleaning equipment.

The Site is not an enhanced investigation property.

3.0 SCOPE OF INVESTIGATION

3.1 GENERAL

The Phase One ESA was conducted in accordance with the current requirements of O. Reg. 153/04 and as outlined in the Terrapex proposal to Empire dated March, 14, 2022. The Phase One ESA also meets or exceeds the requirements of a Phase I ESA as prescribed by the Canadian Standards Association Standard Z768-01 (R2022). The five main components of the Phase One ESA scope of work are described below.

Records Review: A review was conducted of available historic and current environmental information pertaining to the Site and the Phase One study area in accordance with Schedule D (Phase One Environmental Site Assessments) of O. Reg. 153/04.

Interviews: An interview was conducted with Mr. John Taylor, the property manager of the Grand Niagara Golf Club.

Site Reconnaissance: A reconnaissance of the Site and accessible properties within the Phase One study area was conducted for evidence of potential environmental concerns.

Evaluation: The information obtained from the records review, interviews, and Site reconnaissance was reviewed, evaluated, and interpreted by the Qualified Person (QP) for this project (see Section 3.2 below) in consideration of the Phase One ESA general objectives and any uncertainty associated with the data sources.

Reporting: In accordance with the requirements of Schedule D of O. Reg. 153/04, this report documents the findings, conclusions, and recommendations of the Phase One ESA and includes:

- a table of the current and past uses of the Phase One property;
- a table of identified potentially contaminating activities (PCAs) and a table of associated areas of potential environmental concern (APECs); and,
- conclusions and recommendations made based on the evaluation and interpretation of information obtained for the Phase One ESA.

3.2 QUALIFIED PERSON

The Phase One ESA was supervised by Mr. Chris Roach, Senior Project Manager of Terrapex, located at 90 Scarsdale Road in Toronto, Ontario. Mr. Chris Roach is a licensed Professional Engineer in Ontario and meets the qualifications as a QP with the Ministry of the Environment, Conservation and Parks (MECP, formerly known as the Ministry of Environment and Climate Change, MOECC, and Ministry of the Environment, MOE) for the purpose of preparing and submitting RSCs for filing on the Brownfields Environmental Site Registry (ESR).

3.3 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 components.

The general limitations of the study are provided in Section 8.3. Specific limitations of this Phase One ESA are as follows:

- a response from the MECP has not been received pursuant to our Freedom (FOI) request; and,
- The interior of the residential dwellings at 8218 and 8228 Grassy Brook Road was not inspected at the time of the Site reconnaissance because of Site access limitations due, in part, to the COVID-19 pandemic. Based on new information, it is understood that the residential houses have since been demolished.

Upon receipt of a response, Terrapex will forward the response as an addendum to this report in the event that any significant environmental issues are identified by MECP.

4.0 RECORDS REVIEW

4.1 GENERAL

Terrapex obtained and reviewed records relating to the Site and surrounding properties within the Phase One Study Area, in accordance with Schedule D (Phase One Environmental Site Assessments) of O. Reg. 153/04. The records and sources of information reviewed are summarized below, and a list of all documents and associated information cited in this report is provided in Section 9.0.

4.1.1. PHASE ONE STUDY AREA DETERMINATION

To determine the Phase One Study Area, Terrapex conducted a preliminary records review to identify any conditions that might warrant an expansion of the Phase One Study Area beyond the minimum required by O. Reg. 153/04. This review included searches / reviews of the following information:

- aerial photographs and satellite images;
- Provincial waste disposal site inventory documents; and,
- reports documenting previously completed environmental investigations of the site.

The preliminary review did not identify any potential concerns warranting an expansion of the Phase One Study Area.

Accordingly, the Phase One Study Area was established to encompass all of the properties that were located in whole or in part, within 250 m of the boundaries of the subject site.

The boundary of the Phase One Study Area is depicted in Figure 3. Note that all distances are calculated from the nearest property boundary of the site to the nearest boundary of the feature/site in question and are approximate.

4.1.2. FIRST DEVELOPED USE DETERMINATION

Information obtained during the records review portion of the work program was used to determine the date of the first developed use of the Site, as defined in O. Reg. 153/04, summarized in Table 2 below:

TABLE 2: FIRST DEVELOPED USE

YEAR	SITE FEATURES	POTENTIALLY CONTAMINATING ACTIVITY ¹	REFERENCE/SOURCE
1934	 Agricultural lands with rural residential dwellings appear to be present at four on-Site locations, as follows: the northwest portion of the Site (near the current golf course clubhouse and parking lot); the north-central portion of the Site (near the Welland River); the central portion of the Site, located on the north side of Grassy Brook Road; and, the east portion of the Site north of Reixinger Road on the west side of Montrose Road. These four locations are shown on Figure 2. 	None Identified	1934 Aerial Photograph (earliest available record)

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

Based on the above, it was determined that the first developed land use at the Site was prior to 1934 when the Site was developed for rural residential and agricultural purposes.

4.1.3. FIRE INSURANCE PLANS

ERIS Environmental Risk Information Services Ltd. (ERIS) provided an EnviroscanTM search (provided by Opta Information Intelligence) for the site and surrounding properties. No records of FIPs were found for the Site and phase one study area.

4.1.4. CHAIN OF TITLE

A chain of title is not available for review at this time. This information will be included in the final Phase One ESA report.

4.1.5. ENVIRONMENTAL REPORTS

Terrapex was provided with the following previous environmental report for review as part of the scope of the current Phase One ESA. Phase One Environmental Site Assessment, Grand Niagara Secondary Plan, Niagara Falls, Ontario, prepared for Grand Niagara Co-Owners by WSP Canada Inc. | MMM Group Limited, dated December 2015

WSP MMM, 2015, Phase I ESA		
Objective/Work Program	To assess the Phase One Property and the surrounding lands for PCAs determined	
	to be contributing to or causing APECs within any portion of the Phase One Property.	
APECs	 On-Site: Sand traps - fill of unknown origin and quality Golf Course Maintenance Facility – three aboveground storage tanks (ASTs) including a 2,200-litre gasoline AST, a 2,200-litre diesel AST and a 1,360-litre waste oil AST, as well as three 205 L drums of used motor oil. 	
	Bulk storage and mixing of pesticides, herbicides, and fertilizers. <u>Off-Site:</u> Ford Mater Company of Considered 52, Four Limited (a steel febrication)	
	 Ford Motor Company of Canada and ES Fox Limited (a steel fabrication company) operated at 9127 Montrose Road, an adjoining property at the northeast portion of the Phase One Property 	
	Railway corridor dividing the central and south portions of the Phase One Property	
	It should be noted that the Golf Course Maintenance Facility was investigated by WSP as being "on-Site".	
Comments/Limitations/Other	WSP recommended a Phase Two ESA to investigate soil and groundwater quality at	
	the Phase One Property.	

4.1.6. PROPERTY USE RECORDS

A municipal directory search was conducted for the Site and neighbouring properties within 250 m for years between 1961 and 2012; however, there were no property listings between 1961 and 1986. Municipal directory information was obtained from the LGI Copy Service Canada library.

Based on a review of the information obtained, a summary of search results that are considered to be PCAs, or otherwise of potential environmental concern to the Site, is provided in Table 3 below:

ADDRESS	PROXIMITY ¹	YEAR(S)	LISTING(S)	POTENTIAL PCAs ² / CONCERNS
8547 Grassy Brook Rd	On Site	2012 Grand Niagara Golf Course		None Identified.
9514 Montrose Rd	<u>Off-Site:</u> Approx. 65 m from the central-eastern Site boundary	2007/2008 2012	Crown Trucking Services Crown Trucking Services Peter's Delivery Service	11 - Commercial Trucking and Container Terminals
9515 Montrose Rd	Off-Site:	2007/2008	Daytimers of Canada Ltd.	31 - Ink Manufacturing,

TABLE 3 CITY DIRECTORY INFORMATION

ADDRESS	PROXIMITY ¹	YEAR(S)	LISTING(S)	POTENTIAL PCAs ² / CONCERNS
	Adjoining property on the west side of Montrose Road, bordering the central- eastern Site boundary	2012	2012 Minacs Worldwide Inc. Boudreau Heating Inc. Ciminelli Real Estate	
9127 Montrose Rd	Off-Site: Adjoining property on the east side of Montrose Road, bordering the northeastern Site	1991 2007/2008	Ford Motor Company of Canada Ltd. ES Fox Ltd. Kraft Canada Unico Facility Services GNR Property Maintenance	29 - Glass Manufacturing 34 - Metal Fabrication
	boundary	2012	Chelwood <u>ES Fox Ltd.</u> Kraft Canada Unico Facility Services GNR Property Maintenance Chelwood CanGro Food Inc. SF Partners Inc	34 - Metal Fabrication

¹ direction and approximate distance to nearest Site boundary

²As set out in Table 2 in Schedule D of O. Reg. 153/04. (Listings with potential concerns/PCAs are bolded & underlined)

4.2 ENVIRONMENTAL SOURCE INFORMATION

4.2.1. ERIS ENVIRONMENTAL DATABASE

Terrapex ordered an RSC Report (Rural) from Environmental Risk Information Services Information Limited Partnership. (ERIS) for any records associated with properties within the Phase One study area. ERIS searched government and privately owned databases for environmental source information, including the information and documents listed in paragraph 7 of subsection 3 (2) in Schedule D of O. Reg. 153/04. The report included a physical settings report (geologic, topographic, hydrogeologic, and well information), and a map of Areas of Natural and Scientific Interest (ANSIs).

The report from ERIS is included in Appendix III and includes a detailed report which presents information for the records found, a Site diagram which plots the locations of the properties for which records were found (provided sufficient address information was available), as well as an appendix which contains a list and descriptions of the databases ERIS searched.

The ERIS report indicated 19 listing(s) for the Site and 118 relevant listings within the phase one study area. Relevant listings are summarized in Table 4 below.

TABLE 4 - SUMMARY OF RELEVANT ERIS FINDINGS

ADDRESS	PROXIMITY ¹	DATABASE	YEAR(S) ²	DETAILS	PCA ³ s/POTENTIAL CONCERNS
9733 Crowland Avenue (Maintenance Area for Grand Niagara Golf Club)	<u>Off-Site</u> : 30 m from the Site, on the west (far) side of Crowland Avenue	GEN - Ontario Regulation 347 Waste Generators Summary	2005,2007- 2010, 2012-2018, 2020-2021	Generator of waste oils and lubricants.	Other – O. Reg. 347 Registered Waste Generator
9514	011 011	SPL - Ontario Spills	1995	138 L spill of diesel to ground near fuelling/storage tank	28 - Gasoline and Associated Products Storage in Fixed Tanks
Montrose Road	Montrose Approx. 65 m from the central-	GEN - Ontario Regulation 347 Waste Generators Summary	1988-2009	Generator of petroleum distillates, and waste oil & lubricant, paint/pigment/coating residues, oil skimmings & sludges, aliphatic solvents, light fuel	Other – O.Reg 347 Registered Waste Generator
		SCT - Scott's Manufacturing Directory	1947 1966	Day-timers of Canada Ltd. Sandt Printing Company Ltd.	31 - Ink Manufacturing, Processing and Bulk Storage
9515 Montrose Road	Off-Site: Adjoining property on the east side of Montrose Road, bordering the central-eastern Site boundary with one building located approx. 20 m from the Site.	GEN - Ontario Regulation 347 Waste Generators Summary	1986-1990, 1992-1998 2015 – 2016, 2018, 2020-2021	Generator of waste oils and lubricants Aliphatic solvents, paint/pigment/coating residues, waste oil & lubricants, graphic art wastes	Other – O.Reg 347 Registered Waste Generator
		ECA – Environmental Compliance Approval	2009	Backup diesel power generator for Aditya Birla Minacs Worldwide Inc	28 – Gasoline and Associated Products Storage in Fixed Tanks

ADDRESS	PROXIMITY ¹	DATABASE	YEAR(S) ²	DETAILS	PCA ³ s/POTENTIAL CONCERNS
		NPCB – National PCB Inventory	1996	Storage of 159 kg of askarel for disposal	8 – Chemical Manufacturing, Processing and Bulk Storage
		SPL – Ontario Spills	1988	Oily wash water reported to Welland River	Other – Spill
9127 Montrose		OPCB – Inventory of PCB Storage Sites	1995	Storage of low-level PCBs (150 kg)	8 – Chemical Manufacturing, Processing and Bulk Storage
Road		SCT – Scott's Manufacturing Directory	1994	E.S. Fox Ltd.	34 – Metal Fabrication
		FSTH – Fuel Storage Tank – Historic	1999	25,000L gasoline AST and 15,000 diesel AST	28 – Gasoline and Associated Products Storage in Fixed Tanks
		FST – Fuel Storage Tank	1997	25,000L gasoline AST and 15,000 diesel AST	28 – Gasoline and Associated Products Storage in Fixed Tanks

¹ direction and approximate distance to nearest Site boundary

² For SCT listings, the year the company was reportedly established.
 ³ As set out in Table 2 in Schedule D of O. Reg. 153/04.

4.2.2. OTHER GOVERNMENT AND REGULATORY DOCUMENTATION

Terrapex contacted representatives of provincial and municipal government agencies to request any environmental information in their files related to the Site, and/or any available information pertaining to nearby water bodies and areas of natural significance within the Phase One Study Area. Terrapex also conducted searches of available information provided on government websites. The responses received from the government agencies, as well as the additional information obtained through website searches, are summarized in the following sections. Copies of relevant documents and maps are included in Appendix IV.

Ontario Ministry of the Environment, Conservation and Parks (MECP): Terrapex submitted a Freedom of Information (FOI) request regarding documented environmental concerns related to the address of Niagara Falls, Ontario including orders, spills, investigations, waste generator registrations and certificates of approval, as well as general environmental concerns. A request was sent to the MECP on August, 12, 2021.

A written response from the MECP has not yet been received. MECP FOI request typically require several weeks; however, response timelines have been significantly delayed, as MECP staff were not in the office to process FOI requests during the COVID-19 pandemic. If upon receipt of the response from the MECP any significant environmental issues are identified, Terrapex will forward the response as an addendum to this report.

MECP Source Water Protection: Terrapex conducted a search of the information provided on the MECP on-line map of Source Water Protection Areas to determine whether the Phase One property is located in a well-head protection area, or another area designated as an area for the protection of groundwater. The Site is location within an area under the jurisdiction of the Niagara Peninsula Conservation Authority (NPCA). The review indicates the Site in not within a well-head protection area.

Ontario Ministry of Northern Development, Mines, Natural Resources (MNDMRF): Terrapex conducted a search of the information provided on the Ministry of Northern Development, Mines, Natural Resources (MNDMRF) on-line map of Natural Heritage Areas to identify any environmentally sensitive areas or areas of natural significance within the Phase One Study Area.

Search results identified the following:

• Provincially Significant wetlands along Grassy Brook, north portion of the Site along Welland River, central-northern portion of the Site, and along the railway corridor.

Technical Standards & Safety Authority (TSSA): The TSSA was contacted regarding records of fuel storage tanks at the Site and neighbouring sites. Terrapex received a response from TSSA on August, 12, 2021. Three records were found pertaining to 9127 Montrose Road for a private fuel outlet with two liquid fuel tanks.

Niagara Peninsula Conservation Authority (NPCA): A search was conducted on the NPCA interactive mapping website to determine if the Site is within an area regulated by the NPCA. The results indicated the Site is within the NPCA Regulated Areas. The Site is located within the Niagara River Watershed and the nearest water body, Welland River is located immediately north of the Site while Grassy Brook and Lyons Creek transect the central and southern portions of the Site in an east-west orientation.

Official Plan: Terrapex conducted a search of the information provided on the Niagara Region, 2014 Official Plan to determine whether the Phase One property is located in a well-head protection area, or another area designated as an area for the protection of groundwater. The review did not identify the Site being within a well-head protection area or within an area of groundwater protection.

4.3 PHYSICAL SETTING SOURCES

4.3.1. AERIAL PHOTOGRAPHS

Aerial photographs were obtained from the National Air Photo Library and Niagara Region's on-line archives (based on availability, quality, and scale) for review to identify changes to topographic features, as well as development of the site and surrounding properties within the Phase One Study Area over the years. Aerial photographs from 1935, 1954, 1965, 1976, 1982, 1995, 2002, 2010, and 2015 were reviewed.

An approximate 5-year to 15-year intervening time frame between successive photographs/images was considered to be sufficient to permit a reasonable evaluation of the area development and apparent land use history.

The relevant features identified in the aerial photographs and satellite images are summarized in Table 5 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. Copies of the aerial photographs and the satellite images are included in Appendix V.

TABLE 5 SUMMARY OF AERIAL PHOTOGRAPHS AND SATELLITE IMAGES
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YEAR	SOURCE	KEY FEATURES – SITE	KEY FEATURES – SURROUNDINGS	POSSIBLE PCA ¹ s/APECs
1934	Niagara Region	Agricultural lands with residential dwellings appear to be present at four on-Site locations, as follows: 1. the northwest portion of the Site (near the current golf course clubhouse and parking lot); 2. the central-northern portion of the Site (near the Welland River); 3. the central portion of the Site, located on the north side of Grassy Brook Road; and, 4. the east portion of the Site north of Reixinger Road on the west side of Montrose Road. Two creeks were identified to transverse the Site, including Grassy Brook on the central portion of the Site (south of Grassy Brook Road) and Lyons Creek on the southern portion of the Site.	Surrounding areas appears to be consist of large agricultural properties with rural residential dwelling, as well as significant woodlands, wetlands, valley lands and significant areas of natural and scientific interest. Grassy Brook Road and a CP rail line (both off-Site) divide the Site into three non-contiguous parcels of land bordered by the Welland River to the north.	Offsite: 46 – Rail Yards, Tracks and Spurs
1954	Niagara Region	The Site appears similar to the 1934 aerial photo.	Surrounding areas appear similar to the 1934 aerial photo. The QEW highway is visible east of the Site.	None.
1965	Niagara Region	The Site appears similar to the 1954 aerial photo.	Adjoining property located at 9127 Montrose Road appears to be developed for industrial purposes.	Offsite: Other – Industrial Operations
1976	National Air Photo Library of Canada	The Site appears similar to the 1965 aerial photo.	More rural residential dwellings appear to have been constructed central portion of the Site at 8228 Grassy Brook Road. A new parking lot is present on the south portion of the 9127 Montrose Road property. An off-Site property at 9514 Montrose Road appears to be developed as a commercial trucking facility.	Offsite: 11 – Commercial Trucking and Container Terminals
1982	National Air Photo Library of Canada	The Site appears similar to the 1976 aerial photo.	Between 1976 and 1982, the adjoining property known municipally as 9515 Montrose Road appears to be developed for commercial or light industrial property use supported by a 7,500 m ² (approx.) building/facility.	Offsite: Other – Industrial Operations
1995	Niagara Region	The Site appears similar to the 1982 aerial photo.	Surrounding area appears similar to the 1982 aerial photo.	None.
2002	Niagara Region	The Site appears similar to the 1995 aerial photo.	Surrounding area appears similar to the 1995 aerial photo.	None.
2010	Niagara Region	A golf course is present across the majority of the Site. A	Surrounding area appears similar to the 2002 aerial photo.	None.

YEAR	SOURCE	KEY FEATURES – SITE	KEY FEATURES – SURROUNDINGS	POSSIBLE PCA ¹ s/APECs
		clubhouse appears to be present at the western end of Grassy Brook Road.		
2015	Niagara Region	The Site appears similar to the 2010 aerial photo.	Surrounding area appears similar to the 1995 aerial photo.	None.

A Physical Setting Report (PSR) provided by ERIS was reviewed to determine the topography, geology, and hydrogeology characteristics of the Site and the Phase One study area. A summary of reviewed information is presented in Table 6.1 below:

TABLE 6.1 – SUMMARY OF TOPOGRAPHY, HYDROLOGY AND GEOLOGY

SITE FEATURE	DESCRIPTION / DETAILS
REGIONAL TOPOGRAPHY	The Site generally slopes downwards towards the Welland River, which is located north of the Site.
APPROX ELEVATION	Approximately 172 m to 179 masl
PHYSIOGRAPHIC REGION	The Site and Phase One Study Area are located in the physiographic region known as the Haldimand Clay Plain, which borders the Iroquois Plain physiographic region and the Niagara Escarpment.
OVERBURDEN SOIL STRATIGRAPHY	The Haldimand Clay Plain consists of fine-grained silts and clays deposited at the bottom of a deep glacial lake basin.
BEDROCK AND APPROXIMATE DEPTH	Limestone, dolostone, shale, sandstone, gypsum, and salt of the Salina Formation and is anticipated to be more than 40 m below grade.

4.3.2. FILL MATERIALS

Based on a review of borehole logs from past environmental investigations, fill materials were not encountered at the Site. However, Terrapex understands that bunker sand is sourced from commercial suppliers and temporarily stored at the off-Site Golf Course Maintenance Facility. The imported bunker sand is brought onto the Site for placement in sand traps on an "as-needed" basis.

It is understood that the bunker sand is manufactured by crushing silica stones; therefore, this material is not considered to be a "soil" as defined by O. Reg. 153/04. The bunker sand used at the Grand Niagara Golf Course is sourced from Duntroon Quarry, a licensed quarry under the *Aggregate Resources Act*, as well as from the Best Sand Quarry in Chardon, Ohio.

4.3.3. WATER BODIES, AREAS OF NATURAL SIGNIFICANCE AND GROUNDWATER INFORMATION

Based on a review of information and records in the preceding sections, a summary of water bodies, areas of natural significance, if any, and groundwater information within the Phase One study area are summarized in Table 6.2 below:

FEATURE	WITHIN PHASE ONE PROPERTY	WITHIN PHASE ONE STUDY AREA	DESCRIPTION/ DETAILS
WATER BODY	Yes	YES	The Site is located within the Niagara River Watershed and the nearest water body, Welland River is located immediately north of the Site while Grassy Brook and Lyons Creek transect the central and southern portions of the Site in an east-west orientation.
AREA OF NATURAL SIGNIFICANCE	Yes	Yes	There are several provincially significant wetlands located throughout the Site. The Natural Heritage Information Centre indicated endangered, threatened, and species at risk including Round Hickory nut, Northern Bobwhite, Eastern Pond mussel, Grass pickerel, Bobolink, and snapping turtle. Given the Phase One property and Study Area are primarily open fields, wetlands with waterbodies, it is possible that these species may be present.
WELL-HEAD PROTECTION AREA	NO	NO	None Identified
MUNICIPAL DRINKING WATER SYSTEM	YES	NO	Properties along Grassy Brook Road are municipally serviced
WELL FOR CONSUMPTION/ AGRICULTURAL USE	YES	YES	Seven water supply wells were listed within the Phase One Study Area for livestock and domestic use in ERIS PSR. One on-Site well is located at 8218 Grassy Brook Road. Properties along Grassy Brook Road are municipally serviced. It is understood that the on Site well is not being used and will be decommissioned in accordance Reg 903.

TABLE 6.2 – SUMMARY	OF WATER	BODIES,	AREAS	OF	NATURAL	SIGNIFICANCE,	GROUNDWATER
INFORMATION							

4.3.4. WELL RECORDS

Based on a review of information and records in the preceding sections, there are 20 wells on Site within the Phase One Study Area. Seven of the wells were listed as water supply wells. The remaining wells records are reported to be monitoring /test holes. The locations of the wells are shown on Figure 3. A summary of relevant water well records with sufficient information on the hydrogeological and geological characteristics of the Phase One Study Area are summarized in Table 6.3 below.

WELL ID/ TAG YEAR		TYPE OF LOCATION WELL		GENERAL STRATIGRAPHY	APPROXIMATE DEPTH TO WATER TABLE	
6600616	1960	Domestic Water Supply	Off-Site: Approximately 60 m southeast of the Site at 8107 Biggar Road.	Clay soils to 15 m below ground surface (mbgs), gravel to 18 mbgs, and limestone at 20 mbgs.	8.5 m	
6600617	1956	Domestic Water Supply	Off-Site: Adjoining property to the south at 8243 Bigger Road.	Clay soils to 21 mbgs, sand to 23 mbgs, clay to 24 mbgs	3.7 m	
6606618	1960	Livestock Water Supply	Off-Site: Adjoining property to the south at 8365 Bigger Road.	Off-Site:Clay soils to 21 mbgsAdjoiningfollowed by limestoneproperty to thesouth at 8365		
6600619	1960	Domestic Water Supply	On-Site: Clay soils to 25 mbgs, s Central portion of the Site, known municipally as 8218 Grassy Brook Road Clay soils to 25 mbgs, s		5.2 m	
6600625	1956	Domestic /Livestock Water Supply	Off-Site: Southwest of the site, approximately 60 m south of Bigger Road and 120 m east of Crowland Avenue	Clay soils to 18 mbgs followed by limestone	5.8 m	
6602673	1972	Domestic Water Supply	Off-Site: approx. 65 m from the central- eastern Site boundary	Clay soils to mbgs followed by limestone	7.0 m	
6604508	2000	Domestic Water Supply	Off-Site: Adjoining property to the south at 8074 Biggar Road.	Clay soils to mbgs followed by limestone	7.6 m	

TABLE 6.3 – SUMMARY OF SELECTED WATER WELL RECORDS

4.4 SITE OPERATING RECORDS

As the site was determined not to constitute an Enhanced Investigation Property as defined in O. Reg. 153/04, a review of site operating records was not required by the regulation.

5.0 INTERVIEWS

5.1 SITE REPRESENTATIVE

Empire representative with knowledge of the Site was interviewed by Terrapex. Relevant information obtained during the interview is summarized below.

Mr. John Taylor, Property Manager of Grand Niagara Golf Course: Mr. John Taylor completed an interview in person for this study on July 21, 2021, and provided the following information:

- The Site operates as the Grand Niagara Golf Club, renown as an 18-hole championship golf course with a back tee yardage of 7,425 yards and more than 100 deep bunkers strategically placed around the tree-lined fairways and greensides.
- The maintenance facility associated with the golf course is located west of central portion the Site.
- Imported sand fill from Duntroon Quarry (supplied Walker Aggregates Inc.) and Best Sand Quarry in Chardon, Ohio (supplied by Covia Canada Ltd.).
- Bunker Sand is temporarily stored at the maintenance facility and brought onto the Site to maintain sand traps on an "as-needed" basis.
- As far as *Mr. John Taylor* was aware, the Site has always been a golf course.

The statements and information provided by *Mr. John Taylor* were consistent with information obtained from other sources as part of the Phase One ESA investigation. No additional information pertaining to the site could be provided.

5.2 SURROUNDING PROPERTY REPRESENTATIVE

Representatives from surrounding properties are not available for interview during Site reconnaissance.

6.0 SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

The reconnaissance of the Site and the Phase One Study Area was conducted by Mr. Andrew Durbano of Terrapex, as follows:

DATE, TIME, and DURATION	WEATHER CONDITIONS	GUIDE	OCCUPANT/ USE OF FACILITY	ENHANCED INVESTIGATION PROPERTY ¹	NAMES and QUALIFICATIONS of PERSONS CONDUCTING INVESTIGATION
July 21, 2021 9:00 am to 6:30 pm	Sunny 25 ⁰C	Mr. John Taylor	Grand Niagara Golf Club	No	Mr. Andrew Durbano, MSc, P.Geo.

¹ As per clause 32 (1) of O. Reg. 153/04.

Cursory observations of the surrounding properties within the Phase One Study Area made during the Site reconnaissance were limited to areas visible from the Site or from publicly accessible areas and vantage points. During the Site reconnaissance, Terrapex photographed the general Site layout, as well as any specific environmental concerns identified on the site or on surrounding properties within the Phase One Study Area. Specific limitations encountered during the Site reconnaissance are provided in Section 3.3.

The Site location and Site layout are shown on Figure 1 and 2, respectively. Selected photographs including general descriptions are provided in Appendix VI.

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1. SITE DESCRIPTION AND STRUCTURES

The Site consists of three non-contiguous parcels of land, which are divided by Grassy Brook Road and a Canadian Pacific (CP) rail line. The majority of the Grand Niagara Development Lands are presently occupied by the Grand Niagara Golf Course, with some residential lands and active agricultural lands along Grassy Brook Road. There are four structures on the Phase One property with a clubhouse and a restaurant for the Grand Niagara Golf Club located at 8547 Grassy Brook Road and two residential dwellings located at the central portion of the Site at 8218 and 8228 Grassy Brook Road.

Summary of observations from the Site reconnaissance presented in Table 7.2 below:

SITE FEATURES	QUANTITY	AGE	DESCRIPTION	LOCATION
	2	Early – 2000s	Grand Niagara Golf Club clubhouse and restaurant	Northwest portion of the Site at 8547 Grassy Brook Road
BUILDINGS	1	1 Mid- 1970s Residential Dwelling	Central portion of the Site at 8218 Grassy Brook Road	
	1	Mid- 1970s	Residential Dwelling	Central portion of the Site at 8228 Grassy Brook Road

TABLE 7.2 SITE STRUCTURE OBSERVATIONS

No above ground storage tanks (ASTs) and/or underground storage tanks (USTs) were observed at 8547 Grassy Brook Road during the Site reconnaissance. The residential Dwellings at 8218 and 8228 Grassy Brook Road were inaccessible at the time of the Site reconnaissance due to Site access limitations due, in part, to the COVID-19 pandemic. The interior of the two residential dwellings will be inspected in conjunction with the Phase Two ESA field program.

6.2.2. UNDERGROUND UTILITIES

A summary of underground utilities identified from site observations presented in Table 7.3 below:

UTILITY PRESENCE ON SITE APPROXIMATE LOCATION		APPROXIMATE LOCATION			
ELECTRICAL	Yes	Underground hydro line to an on-Site transformer, as well as overhead hydroelectric line along Grassy Brook Road.			
GAS	Yes	Underground gas line to the clubhouse and parking lot south of the clubhouse			
SEWER	Yes	Grassy Brook Road is municipally serviced			
WATER	Yes	Grassy Brook Road is municipally serviced			

TABLE 7.3 UTILITY DETAILS

An on-Site pad-mounted transformer was observed near the entrance of the clubhouse. Given the age of the Site was developed as a golf course in the early 2000s, it is unlikely for the transformer to contain PCBs. Nonetheless, any type of transformer is identified by O. Reg. 153/04 to be an on-Site PCA contributing to or causing an APEC.

6.2.3. INTERIOR OF STRUCTURES

Details of structures observed are summarized in the table below.

TABLE 7.4 STRUCTURE DETAILS		
ITEM	Clubhouse (Grand Niagara Golf Club)	Restaurant (Grand Niagara Golf Club)
CONSTRUCTION DETAILS	Wood	Wood
HEATING SYSTEM	Gas powered furnace, forced air	Gas powered furnace, forced air

TABLE 7.4 STRUCTURE DETAILS

ITEM	Clubhouse (Grand Niagara Golf Club)	Restaurant (Grand Niagara Golf Club)
COOLING SYSTEM	Air conditioning, forced air	Air conditioning, forced air
DRAIN/PITS/SUMPS	None observed	None observed
UNIDENTIFIED SUBSTANCES	None observed	None observed
STAINS/CORROSION ON FLOORS	None observed	None observed

6.2.4. EXTERIOR OBSERVATIONS

Summary of observations of the exterior of the Site are presented in Table 7.5 below:

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IADLC	1.5	SILE	DETAILS

ITEM	DETAILS	APPROXIMATE LOCATION	
SEWAGE WORKS	Municipally serviced for wastewater	Clubhouse and restaurant	
OIL/GAS or WATER WELLS	WELLS None observed None observed		
RAILWAY LINES/ SPURS	CP Railway	Central portion of the Site (off-Site)	
STAINED SOIL/ VEGETATION/ PAVEMENT	None observed	None observed	
STRESSED VEGETATION	None observed	None observed	
POTENTIAL PCA ¹ 46 - Rail Yards, Tracks and S		Central portion of the Site (off-Site)	
UNIDENTIFIED SUBSTANCES	N/A	N/A	

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

6.2.5. ENHANCED INVESTIGATION PROPERTY

The Site is not considered an Enhanced Investigation Property.

6.3 PHASE ONE STUDY AREA, OTHER THAN PHASE ONE PROPERTY

Observations from the site reconnaissance of the Phase One Study Area, are listed below.

FEATURE/DETAILS	DESCRIPTION	ADDRESS	PROXIMITY
WATER BODY	Welland River, Grassy Brook, and Lyons Creek	N/A	The Site is located within the Niagara River Watershed and the nearest water body, Welland River is located immediately north of the Site while Grassy Brook and Lyons Creek transect the central and southern portions of the Site in an east-west orientation.
AREA OF NATURAL SIGNIFICANCE	Wetlands	On-Site	Predominantly observed across the central portion of the Site.
MUNICIPAL DRINKING WATER SYSTEM	Supplied by City of Niagara On-Site N/A		N/A

FEATURE/DETAILS DESCRIPTION		ADDRESS	PROXIMITY
WELL FOR CONSUMPTION/ AGRICULTURAL USE	NONE OBSERVED		
Storage Tanks and containers	Two ASTs for fuel, one AST for waste oil, and two drums of motor oil observed at the maintenance facility for the Grand Niagara Golf Club.	9733 Crowland Avenue	30 m west of the Site

6.4 WRITTEN DESCRIPTION OF INVESTIGATION

The site reconnaissance was conducted to identify, describe, and document specific items at the Site and at surrounding properties within the Phase One Study Area, in accordance with Schedule D of O. Reg. 153/04. Written descriptions detailing the observations made by Terrapex personnel during the site reconnaissance are provided above in Sections 6.2 and 6.3, for the Site and the Phase One Study Area, respectively.

Discussions regarding the identification of PCAs on the Site and on surrounding properties with the Phase One Study Area are provided below in Section 7.2.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

Current and past uses for the Site are provided in Table 8 below:

YEAR	NAME OF OWNER	DESCRIPTION OF PROPERTY USE	PROPERTY USE ¹	OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC.
1934 - 2002	Several Private Owners	The Site appears to be land used for residential and agricultural purposes Agricultural lands with residential dwellings were identified at four on- Site locations, as follows: 1. the northwest portion of the Site (near the current golf course clubhouse and parking lot); 2. the central-northern portion of the Site (near the Welland River); 3. the central portion of the Site, located on the north side of Grassy Brook Road; and, 4. the east portion of the Site north of Reixinger Road on the west side of Montrose Road.	Residential use	Aerial photographs
2002 - 2021	Grand Niagara Co-Owners	The Site was developed and opened as the Grand Niagara Golf Course in 2005	Commercial use	Aerial Photographs Site reconnaissance Interviews
2021	Empire (Grand Niagara) GP Inc.	The Site was acquired in late-2021 for redevelopment as a residential subdivision. The Site is currently operation as a commercial golf course; however, it is understood the golf course will be closed in October/November 2023.	Commercial use	Site reconnaissance Interviews

TABLE 8 CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

¹as defined in O.Reg. 153/04

The Phase One property was used for agricultural/rural residential purposes until the early 2000s when the majority of the land was developed as the Grand Niagara Golf Course, a commercial property use (i.e., Golf course).

7.2 POTENTIALLY CONTAMINATING ACTIVITY

A potentially contaminating activity as defined in O. Reg. 153/04 is a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in the Phase One property and/or Phase One study area. Details regarding the PCAs that may be contributing to an area of potential environmental concern are provided below in Tables 9.1 and 9.2.

TABLE 9.1 POTENTIALLY CONTAMINATING ACTIVITIES ON, IN OR UNDER THE PHASE ONE PROPERTY

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 1	55 - Transformer Manufacturing, Processing and Use	Pad-mounted transformer located near the clubhouse and restaurant area at 8547 Grassy Brook Road.	Site Reconnaissance	Yes	None

¹ As shown on Figure 4.

² As set out in Table 2 in Schedule D of O. Reg. 153/04.

³ Area of potential environmental concern (APEC)

TABLE 9.2 POTENTIALLY CONTAMINATING ACTIVITIES WITHIN THE PHASE ONE STUDY AREA

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 2A	46 - Rail Yards, Tracks and Spurs	CP rail line transecting the	Northern portion of the off- Site CP rail line	Aerial photographs Site Reconnaissance	Possible for impacts to be present	None
PCA 2B	46 - Rail Yards, Tracks and Spurs	central portion of the Site, resulting in two non- contiguous parcels of land to the north and south that are part of the Site.	Southern portion of the off- Site CP rail line	Aerial photographs Site Reconnaissance	Possible for impacts to be present	None
PCA 3A	29 - Glass Manufacturing	9127 Montrose Road,	Former Niagara Glass Plant operated by the Ford Motor Company of Canada Ltd until 2007	Aerial photographs ERIS report City directories	Possible for impacts to be present	Operations & maintenance practices are unknown

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 3B	34 - Metal Fabrication	adjoining property on the west side of Montrose Road, bordering the northeastern Site boundary	E.S. Fox Ltd., a steel fabrication facility	Aerial photographs ERIS report City directories	Possible for impacts to be present	Operations & maintenance practices are unknown
PCA 3C	28 - Gasoline and Associated Products Storage in Fixed Tanks		Private fuel outlet with two ASTs	ERIS report	Possible for impacts to be present	Operations & maintenance practices are unknown
PCA 4A	31 - Ink Manufacturing, Processing and Bulk Storage	9515 Montrose Road, adjoining property on the west side of Montrose Road, bordering the central-eastern	Daytimers of Canada Ltd and Minacs Worldwide Inc Printing facilities	Aerial photographs ERIS report City directories	Unlikely – The ERIS report indicated this property was used as a printing facility in 1947 and 1966. However, the record in the ERIS appears to be inconsistent with the aerial photographs, as no buildings or structures were present on the property until the early 1980s.	Operations & maintenance practices are unknown
PCA 4B	28 - Gasoline and Associated Products Storage in Fixed Tanks	Site boundary.	Backup diesel power generator for Aditya Birla Minacs Worldwide Inc	ERIS report	Unlikely – based on an assumption that bulk quantities of fuel were not stored on-Site for the backup diesel power generator did not require bulk quantities of fuel were not stored on-Site, the intervening distance, and negligible groundwater movement due to low permeability of native till.	None
PCA 5A	28 – Gasoline and Associated Products Storage in Fixed Tanks		Bulk storage of gasoline and diesel fuels, and used motor oil in 205L drums	Site inspection Previous report	Possible for impacts to be present	None

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 5B	22 - Fertilizer Manufacturing, Processing and Bulk Storage	9733 Crowland Avenue, Golf Course Maintenance Facility located approx. 30 m west of the Site.	Bulk storage and mixing of fertilizer	Site inspection Previous report	Unlikely, due to the immobile nature of fertilizers, the intervening distance, and negligible groundwater movement due to low permeability of native till.	None
PCA 5C	40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications		Bulk storage and mixing of pesticides and herbicides	Site inspection Previous report	Unlikely, due to the immobile nature of pesticides and herbicides, the intervening distance, and negligible groundwater movement due to low permeability of native till.	None
PCA 6A	11 - Commercial Trucking and Container Terminals	9514 Montrose Road, located on the eastern side of Montrose Road, approx. 65 m from the central- eastern Site boundary	Trucking facility	Aerial photographs	Unlikely, based on intervening distance negligible groundwater movement due to low permeability of native till.	Operations & maintenance practices are unknown
PCA 6B	28 - Gasoline and Associated Products Storage in Fixed Tanks		138 L spill of diesel to ground near fuelling/storage tank Reported in 1995	ERIS report	Unlikely, based on the age and small size of the spill, the intervening distance and negligible groundwater movement due to low permeability of native till.	Operations & maintenance practices are unknown

¹ As shown on Figure 4. ² As set out in Table 2 in Schedule D of O. Reg. 153/04. ³ Area of potential environmental concern (APEC)

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

An area of potential environmental concern, as defined in O. Reg. 153/04, is the area on, in, or under a Phase One property where one or more contaminants are potentially present, as determined through the Phase One environmental site assessment, including through, (a) identification of past or present uses on, in or under the Phase One property and (b) identification of potentially contaminating activity.

APECs are summarized in Table 10 and shown on Figure 4.

TABLE 10	AREAS OF POTENTIAL ENVIRONMENTAL CONCE				
APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF- SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 1	Outside of the entrance to the Golf Course Clubhouse and Restaurant at 8547 Grassy Brook Road	55 - Transformer Manufacturing, Processing and Use	On-Site	1.1.7 PolychlorinatedBiphenyls (PCBs)1.1.11 BTEX1.1.6 PetroleumHydrocarbons (PHCs)	Soil
APEC 2A	Immediately north of the off-Site CP rail line	46 - Rail Yards, Tracks and Spurs	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater
APEC 2B	Immediately south of the off-Site CP rail line	46 - Rail Yards, Tracks and Spurs	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater
APEC 3A	9127 Montrose Road, adjoining property on the west side of Montrose Road, bordering the northeastern Site boundary	29 - Glass Manufacturing	Off-Site	 1.2.2 Metals 1.2.3 Metals, Hydride- Forming 1.3 Other Regulated Parameters (ORPs) 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs) 1.1.10 VOCs 	Groundwater

 TABLE 10
 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF- SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 3B	9127 Montrose Road, adjoining property on the west side of Montrose Road, bordering the northeastern Site boundary	34 - Metal Fabrication	Off-Site	1.2.2 Metals 1.2.3 Metals, Hydride- Forming 1.3 Other Regulated Parameters (ORPs) 1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs) 1.1.10 VOCs	Groundwater
APEC 3C	9127 Montrose Road, adjoining property on the west side of Montrose Road, bordering the northeastern Site boundary	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater
APEC 4	9733 Crowland Avenue, Golf Course Maintenance Facility located on the western side of Crowland Avenue and approximately 30 m from the central -western Site boundary.	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	1.1.11 BTEX 1.1.6 Petroleum Hydrocarbons (PHCs)	Groundwater

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

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

(b) identification of potentially contaminating activity.

² As set out in Column A of Table 2 of Schedule D.

³ Contaminants of potential concern (COPC) according to the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", March 9, 2004, amended as of July 1, 2011:

Cl: chloride
EC: electrical conductivity
SAR: sodium adsorption ratio
PCBs: polychlorinated biphenyls

8.0 CONCLUSIONS

8.1 WHETHER PHASE TWO ESA REQUIRED BEFORE RSC SUBMITTED

Based on the findings of the Phase One ESA, several APECs have been identified at the Site; therefore, a Phase Two ESA is required in order to file an RSC for the Site, in accordance with the requirements of O. Reg. 153/04.

8.2 RSC BASED ON PHASE ONE ESA ALONE

An RSC cannot be filed for the Phase One Property based solely on this Phase One ESA.

8.3 SIGNATURES

The environmental assessment described herein was conducted in accordance with the terms of reference for this project, as agreed upon by Empire (Grand Niagara) Project GP Inc. and Terrapex Environmental Ltd.

The Phase One Environmental Site Assessment of the property located at Niagara Falls, Ontario which included the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance has been conducted in accordance with Ontario Regulation 153/04 (Records of Site Condition – Part XV.1 of the Environmental Protection Act), made under the *Environmental Protection Act*, by or under the supervision of a Qualified Person. The qualifications of the assessors are included in Appendix VII.

Terrapex has exercised due care, diligence, and judgement in the performance of this 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. 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 assessment, and subsequent investigations of differing scope may reveal conflicting results. Findings and observations may also change with the passage of time. Where applicable, observations of nearby properties were limited to areas visible from the site or from publicly accessible areas and vantage points.

Terrapex has relied in good faith on information and representations obtained from the Client and third parties and, expect where specifically identified, has made no attempt to verify such information. Terrapex accepts no responsibility for any deficiency or inaccuracy in this report as a result of any misstatement, omission, misrepresentation, or fraudulent act of those providing information. Terrapex shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time of the study.

This report has been prepared for the sole use of Empire (Grand Niagara) Project GP Inc., 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 Empire (Grand Niagara) Project GP Inc.

Respectfully submitted, TERRAPEX ENVIRONMENTAL LTD.

Alyssa Davis, MSc, GIT Project Manager

This Porel

Chris Roach, P.Eng., QP_{ESA|RA} Senior Reviewer and Qualified Person

9.0 REFERENCES

Regulations and Guidelines

Ontario Regulation 153/04, *Records of Site Condition – Part XV.1 of the Environmental Protection Act*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011

Property Use Information:

City of Niagara Falls Directories, available through LGI Copy Service, various years, 1961 – 2012.

Environmental Source Information:

Ontario Ministry of the Environment (MOE), Ministry of the Environment and Climate Change (MOECC) and Ministry of the Environment, Conservation and Parks (MECP) documents and databases:

- Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume II (April 1987), prepared for MOE by Intera Technologies Ltd. (Intera)
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume I (November 1988), prepared for MOE by Intera
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume II (November 1988), prepared for MOE by Intera
- Waste Disposal Site Inventory (June 1991)
- MOECC Brownfields Environmental Site Registry website

Federal government, provincial government, and private source database records available through ERIS Information Inc. (ERIS) for locations within 300 m of the Site.

Regulatory file information and documentation regarding environmental concerns related to the site, and/or information pertaining to water bodies and areas of natural significance within the Phase One Study Area, available from:

- MECP Freedom of Information and Protection of Privacy Office
- Ontario Ministry of Natural Resources and Forestry (MNRF) Natural Heritage Area on-line mapping
- Technical Standards & Safety Authority (TSSA) Fuels Safety Division
- Niagara Peninsula Conservation Authority, Watershed Explorer, available online at: https://npca.ca/

Niagara Region, Official Plan Schedule C (Core Natural Heritage); Schedule H (Source Water Protection).

Physical Setting Sources:

Aerial photographs for the years 1934, 1954, 1965, 1995, 2002, 2010, and 2015 available from the Niagara Region, and for the years 1976 and 1982 available from the National Air Photo Library

The Physiography of Southern Ontario, Third Edition, Ontario Geological Survey Special Volume 2 (1984), Chapman and Putnam, map provided by ERIS.

Ontario Geological Survey map entitled Surficial Geology of Southern Ontario, provided by ERIS.

Ontario Geological Survey map entitled Bedrock Geology of Ontario, provided by ERIS.

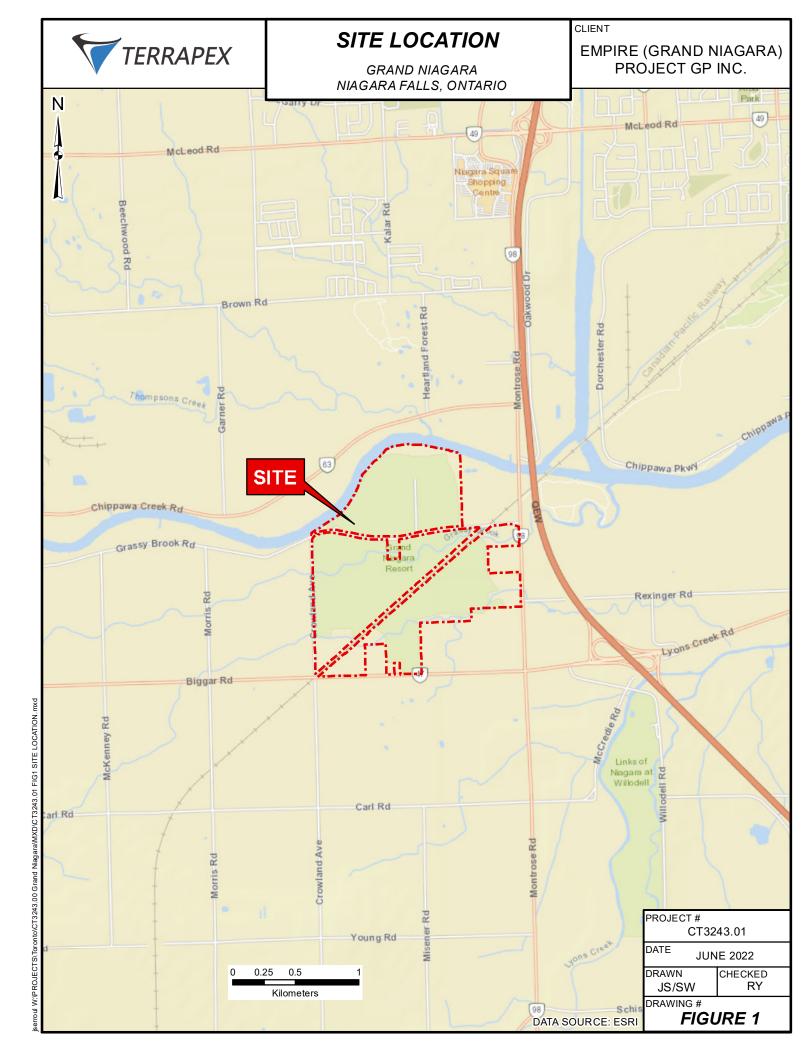
Ontario Ministry of Agriculture and Food, Ministry of Natural Resources, Soil Survey Complex (ON Soils), Soil Survey Complex (ON Soils), map provided by ERIS.

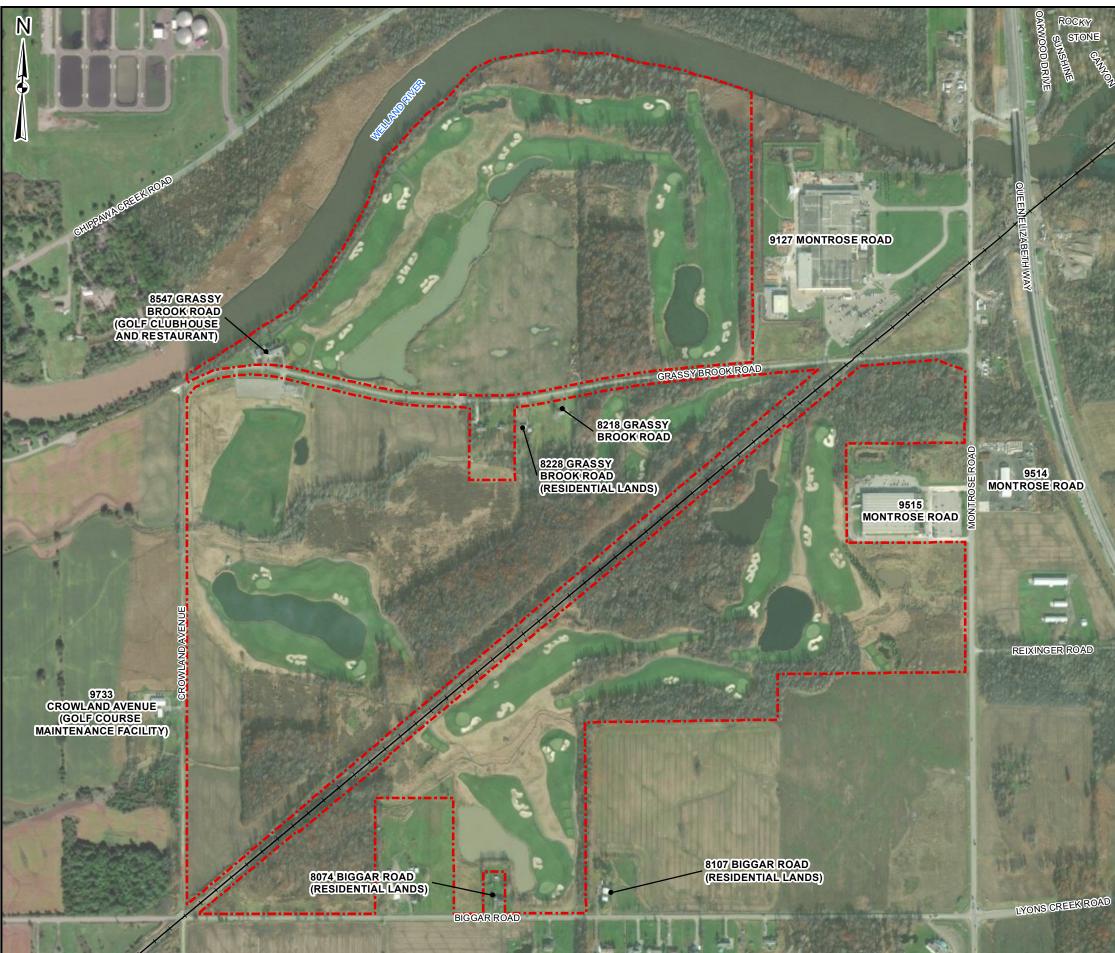
Well record information available from ERIS on the Water Well Information System databases and from the MOECC Environmental Monitoring and Reporting Branch Water Well Information System, on-line mapping application

Interviews:

Interview on July 21, 2021, with Mr. John Taylor, Property Manager of Grand Niagara Golf Club, Group., during Terrapex's site reconnaissance

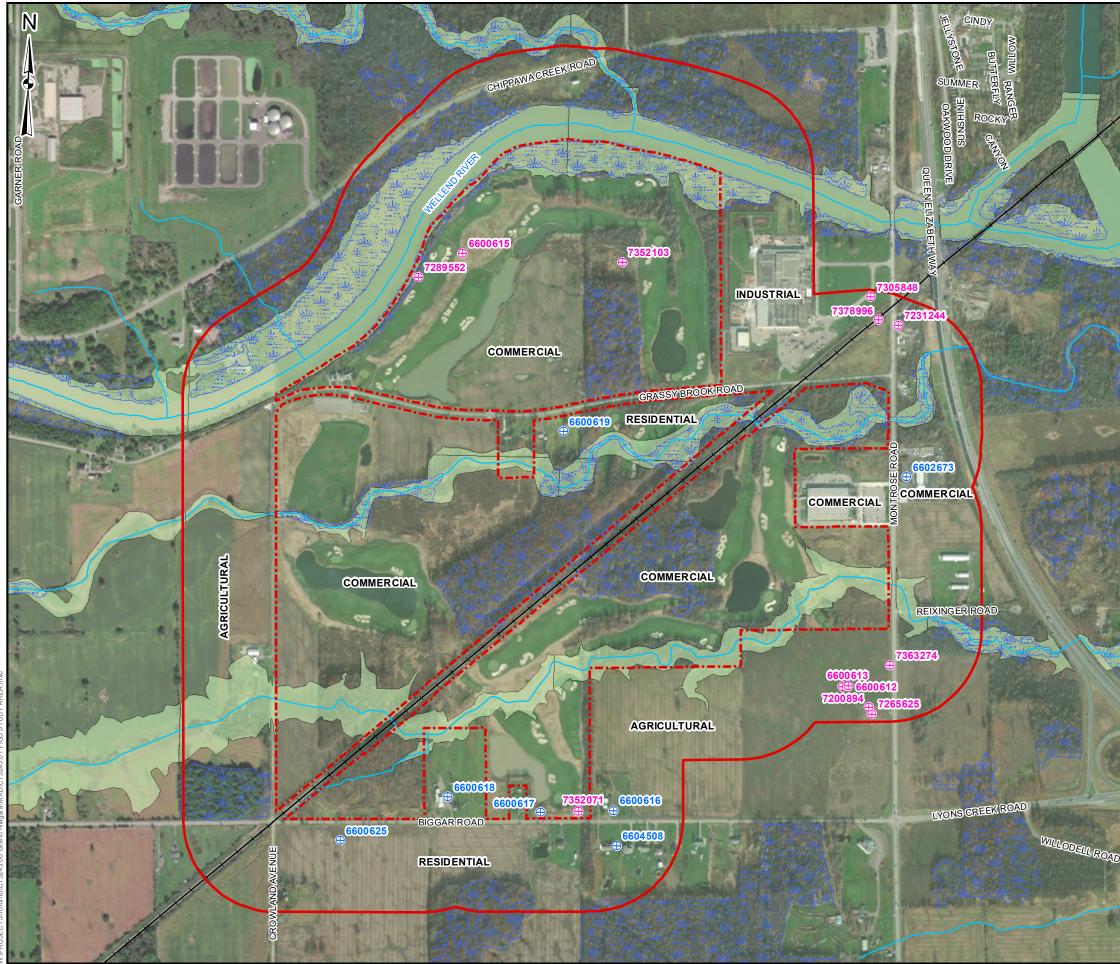
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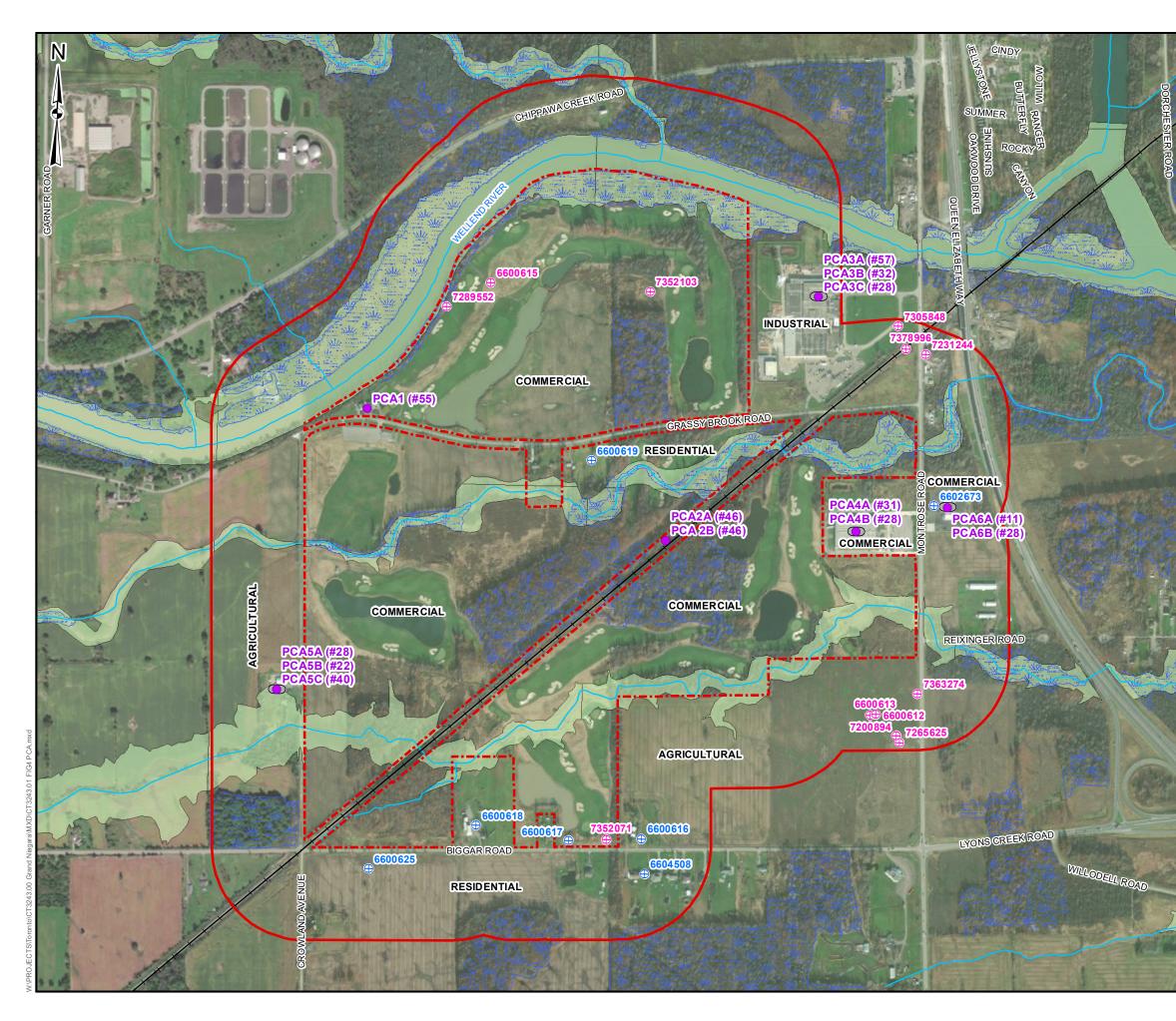


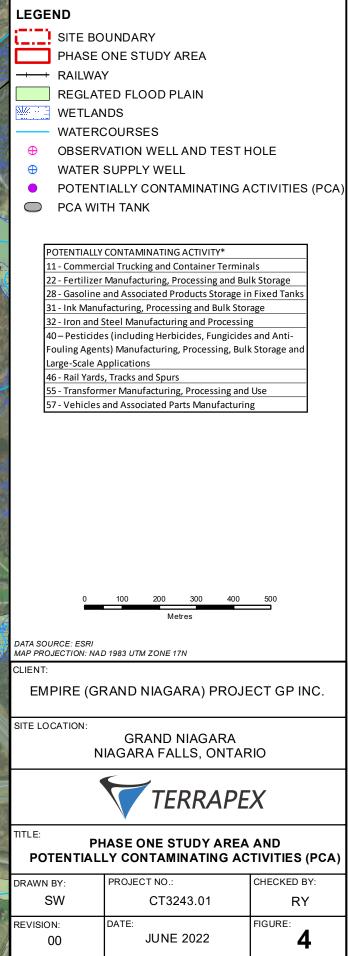
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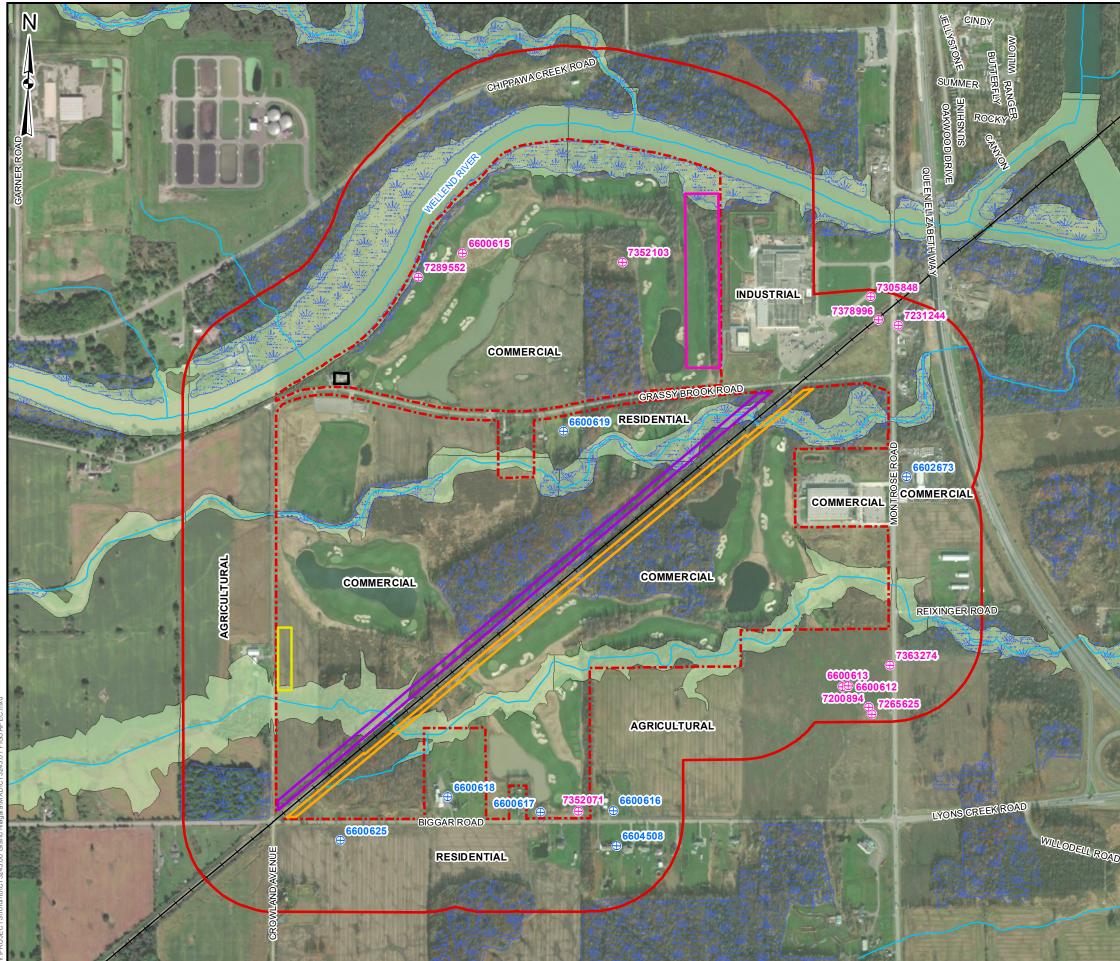
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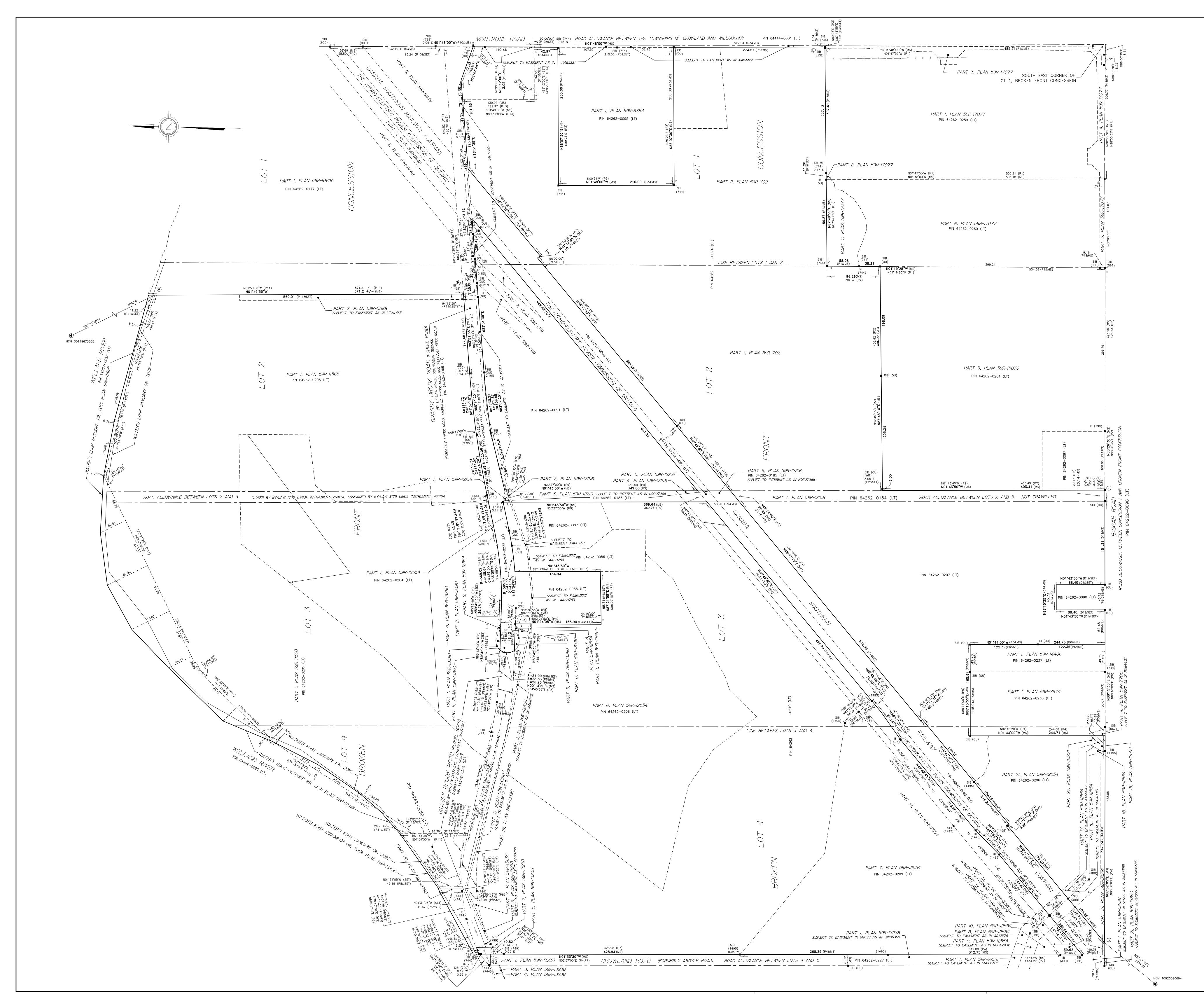






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APPENDIX I PLAN OF SURVEY



PLAN OF SURVEY OF PART OF LOTS 1, 2, 3 AND 4 BROKEN FRONT CONCESSION GEOGRAPHIC TOWNSHIP OF CROWLAND NOW IN THE CITY OF NIAGARA FALLS REGIONAL MUNICIPALITY OF NIAGARA

200 metres

SCALE 1:2000

GEOVERRA (ON) LTD. ONTARIO LAND SURVEYORS 2022 © Protected by copyright.

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

NOTE

BEARINGS ARE UTM GRID, DERIVED FROM SPECIFIED CONTROL POINTS 00119673605 AND 10920020094, BY REAL TIME NETWORK (RTN) GPS OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (CBNV6-2010.0). DISTANCES HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR 0.999863.

	INTEGRATION DATA	
SPECIFIED CONTROL POINTS COORDINATE VALUES ARE	(SCPs) UTM ZONE 17 NAD TO AN URBAN ACCURACY IN 14 (2) OF 0.REG 216/10.	B3 (CSRS) (CBNV6-2010.0 ACCORDANCE WITH SECTION
POINT ID	NORTHING	EASTING
00119673605	4768121.176	652227.255
10920020094	4764953.375	650473.663
А	4767764.08	652412.61
В	4767206.43	652430.45
С	4767095.46	651787.08
D	4767201.42	652880.23
E	4766563.72	652897.22
F	4766033.11	652108.35
G	4766010.13	651288.04
Н	4767143.23	651234.75
	DT, IN THEMSELVES, BE USE DR BOUNDARIES SHOWN ON	

SSIB/PB MONUMENTS WERE SET DUE TO LACK OF OVERBURDEN AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH SECTION 11 (4) OF O.REG. 525/91. BEARING COMPARISONS SHOWN HEREON ARE NOT ROTATED AND ARE AS SHOWN ON DOCUMENT REFERENCED.

DOCUMENT REFERENCED. ALL SURVEYED BOUNDARIES ARE NOT FENCED UNLESS NOTED OTHERWISE.

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INSTRUMENT No. RO678642 INSTRUMENT No. RO685378 INSTRUMENT No. AA83221 INSTRUMENT No. AA83220

SURVEYOR'S CERTIFICATE

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT AND THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.

2. THE SURVEY WAS COMPLETED ON THE DAY OF , 2022.

YURIY BOGDANOV ONTARIO LAND SURVEYOR

 Wind Number:
 Ontario Lidd.
 Ontario Land Surveyors
 DRAWING NUMBER:

 21-05107-002-P0S01

 Suite 101, 1875 BUCKHORN GATE, MISSISSAUGA, ONTARIO, CANADA, L4K 5P1

 T: 647-905-8887 WEBSITE: WWW.GEOVERRA.COM

 P.CHIEF: B.P./M.Z.
 DWG. BY: D.H.G.
 CHK'D BY: Y.B.

 JOB NUMBER: 21-05107-002
 TAB NAME: POS

 DWG FILE NAME:
 21-05107-002-POS01.DWG

APPENDIX II DIRECTORY SEARCH



www.lgicscanada.com alantos@lgicscanada.com Phone: 613 875-7387

City Directory Information Source

Vernon's Niagara Falls, ON City Directory

	2012	
Project Number: Terrapex Roy Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario		
Site Listing:	- Grand Niagara Resort	
Adjacent Properties:		
Grassy Brook Road (7600-8900)	- All Residential	
Biggar Road (7940-8200)	- All Residential	
Chippawa Creek Road (7900-8125)	- No Listings In Range	
Crowland Avenue (9260-10000)	- No Listings In Range	
Montrose Road (9030-9700)	9240- No Return 9304- No Return	
	9514- Crown Trucking Services - Peter's Delivery Service	

2012	
Project Number: Terrapex Roy	Ontonia
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold)	
	9127- CanGro Foods Inc
	- Chelwood
	- ES Fox Ltd
	- GNR Property Maintenance
	- Sf Partners Inc
	9515- Minacs Worldwide Inc
	- Boudreau Heating Inc
	- Ciminelli Real Estate Corp of Canada
Rexinger Road (7260-7600)	7473- Residential (1 Tenant)
	7573- Queen E Farms

	2007/08	
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (
Site Listing:	- Address Not Listed	
Adjacent Properties:		
Grassy Brook Road (7600-8900)	- No Listings In Range	
Biggar Road (7940-8200)	- Address Not Listed	
Chippawa Creek Road (7900-8125)	- No Listings In Range	
Crowland Avenue (9260-10000)	- No Listings In Range	

	2007/08
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinso	on (Thorold), Ontario
Montrose Road (9030-9700)	9240- No Return
	9304- Residential (1 Tenant)
	9514- Crown Trucking Services
	9127- Kraft Canada
	- Unicco Facility Services
	- ES Fox Ltd
	- Gnr Property Maintenance
	- Chelwood
	9515- Day-Timers Of Canada Ltd
	- Minacs Worldwide Inc
Rexinger Road (7260-7600)	7473- Residential (1 Tenant)

	2001/02
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold),	Ontario
Site Listing:	- Address Not Listed
Adjacent Properties:	
Grassy Brook Road (7600-8900)	- Address Not Listed
Biggar Road (7940-8200)	-Address Not Listed

	2001/02
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold	, Ontario
Chippawa Creek Road (7900-8125)	- Address Not Listed
Crowland Avenue (9260-10000)	- Address Not Listed
Montrose Road (9030-9700)	- Address Not Listed
Rexinger Road (7260-7600)	- Address No Listed

	1996/97	
Project Number: Terrapex Roy Site Address: 8547 Grassy Brook Road, Port Robinson (T	۲horold), Ontario	
Site Listing:	- Address Not Listed	
Adjacent Properties:		
Grassy Brook Road (7600-8900)	- Address Not Listed	
Biggar Road (7940-8200)	-Address Not Listed	
Chippawa Creek Road (7900-8125)	- Address Not Listed	
Crowland Avenue (9260-10000)	- Address Not Listed	
Montrose Road (9030-9700)	- No Listings In Range	
Rexinger Road (7260-7600)	- Address No Listed	

1991	
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario Site Listing: - Address Not Listed	
Site Listing:	- Address Not Listed
Adjacent Properties:	
Grassy Brook Road (7600-8900)	- Address Not Listed
Biggar Road (7940-8200)	-Address Not Listed
Chinneyye Creek Beed (7000 8125)	- Address Not Listed
Chippawa Creek Road (7900-8125)	
Crowland Avenue (9260-10000)	- Address Not Listed
Montrose Road (9030-9700)	9127- Ford Motor Company of Canada Ltd
Rexinger Road (7260-7600)	- Address No Listed

1986		
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario		
Site Listing:	- Address Not Listed	
Adjacent Properties:		
Grassy Brook Road (7600-8900)	- Address Not Listed	
Biggar Road (7940-8200)	-Address Not Listed	

1986		
Project Number: Terrapex Roy	Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold),	, Ontario	
Chippawa Creek Road (7900-8125)	- Address Not Listed	
Crowland Avenue (9260-10000)	- Address Not Listed	
Montrose Road (9030-9700)	- No Listings Within Range	
Rexinger Road (7260-7600)	- Address No Listed	

	1981
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (
Site Listing:	- Address Not Listed
Adjacent Properties:	
Grassy Brook Road (7600-8900)	- Address Not Listed
Biggar Road (7940-8200)	-Address Not Listed
Chippawa Creek Road (7900-8125)	- Address Not Listed
Crowland Avenue (9260-10000)	- Address Not Listed
Montrose Road (9030-9700)	- No Listings Within Range

1981	
Project Number: Terrapex Roy	
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario	
Rexinger Road (7260-7600)	- Address No Listed

	1976	
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (
Site Listing:	- Address Not Listed	
Adjacent Properties:		
Grassy Brook Road (7600-8900)	- Address Not Listed	
Biggar Road (7940-8200)	-Address Not Listed	
Chippawa Creek Road (7900-8125)	- Address Not Listed	
Crowland Avenue (9260-10000)	- Address Not Listed	
Montrose Road (9030-9700)	- No Listings Within Range	
Rexinger Road (7260-7600)	- Address No Listed	

1971		
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario		
Site Listing:	- Address Not Listed	
Adjacent Properties:		

1971	
Project Number: Terrapex Roy	
Thorold), Ontario	
- Address Not Listed	
-Address Not Listed	
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- Address Not Listed	
- No Listings Within Range	
- Address No Listed	
	Thorold), Ontario - Address Not Listed -Address Not Listed - Address Not Listed - Address Not Listed - Address Not Listed - Address Not Listed - No Listings Within Range

1966 Project Number: Terrapex Roy Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario		
		- Address Not Listed
Adjacent Properties:		
Address Not Listed		
-Address Not Listed		
- Address Not Listed		
- Address Not Listed		
	(Thorold), Ontario - Address Not Listed - Address Not Listed	

1966		
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario		
Montrose Road (9030-9700)	- No Listings Within Range	
Rexinger Road (7260-7600)	- Address No Listed	

1961		
Project Number: Terrapex Roy		
Site Address: 8547 Grassy Brook Road, Port Robinson (Thorold), Ontario Site Listing: - Address Not Listed		
- Address Not Listed		
-Address Not Listed		
- Address Not Listed		
- Address Not Listed		
- No Listings Within Range		
- Address No Listed		

APPENDIX III ERIS REPORTS



DATABASE REPORT

Project Property:

Project No: Report Type: Order No: Requested by: Date Completed: 8547 Grassy Brook Road 8547 Grassy Brook Road Port Robinson ON LOS 1K0 CT3243.00 RSC Report - Quote 21081100468 Terrapex Environmental Ltd. August 16, 2021

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



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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property:

Project No:

8547 Grassy Brook Road Port Robinson ON LOS 1K0

CT3243.00

Order Information:

Order No: Date Requested: Requested by: Report Type: 21081100468 August 11, 2021 Terrapex Environmental Ltd. RSC Report - Quote

8547 Grassy Brook Road

Historical/Products:

ERIS Xplorer Insurance Products Physical Setting Report (PSR) Topographic Map

ERIS Xplorer

Fire Insurance Maps/Inspection Reports/Site Plans PSR RSC Maps

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	12	12
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
СНМ	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	3	3
ECA	Environmental Compliance Approval	Y	0	10	10
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	12	13
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Ŷ	0	2	2
FSTH	Fuel Storage Tank - Historic	Ŷ	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	12	45	57
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System	Y	0	0	0
NCPL	(NATES) Non-Compliance Reports	Y	0	6	6
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal	Y	0	0	0
NEBI	Sites National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	2	2
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	3	3
OPCB	Inventory of PCB Storage Sites	Y	0	1	1
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	3	3
SPL	Ontario Spills	Y	0	5	5
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Ŷ	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	6	12	18
	-	Total:	19	118	137

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Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	EHS		n/a Niagara Falls ON	ESE/0.0	4.60	<u>37</u>
<u>2</u>	WWIS		lot 3 ON <i>Well ID:</i> 6600619	NNE/0.0	17.86	<u>37</u>
<u>3</u>	GEN	Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	WNW/0.0	3.91	<u>40</u>
<u>3</u>	GEN	Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>41</u>
<u>3</u>	GEN	Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>41</u>
<u>3</u>	GEN	Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>41</u>
<u>3</u>	GEN	Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>42</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON	WNW/0.0	3.91	<u>42</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	WNW/0.0	3.91	<u>42</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>42</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	WNW/0.0	3.91	<u>43</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	WNW/0.0	3.91	<u>43</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	WNW/0.0	3.91	<u>43</u>
<u>3</u>	GEN	2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	WNW/0.0	3.91	<u>44</u>
<u>4</u>	WWIS		8547 Grassy Brook Rd lot 2 Port Robinson ON <i>Well ID:</i> 7352103	NNE/0.0	11.18	<u>44</u>
<u>5</u>	WWIS		ON Well ID: 7289552	NW/0.0	-9.73	<u>47</u>
<u>6</u>	WWIS		lot 3 ON <i>Well ID:</i> 6600615	NNW/0.0	-4.07	<u>48</u>
<u>7</u>	WWIS		lot 3 ON	S/0.0	13.19	<u>53</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
			Well ID: 6600617			
<u>8</u>	WWIS		8547 Grassy Brook Rd lot 3 Port Robinson ON	S/0.0	13.19	<u>56</u>
			Well ID: 7352071			

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>9</u>	EHS		8365 Biggar Rd Niagara Falls ON L0S1K0	SSW/29.6	12.31	<u>59</u>
<u>10</u>	CA	DAY-TIMERS OF CANADA LTD.	9515 MONTROSE ROAD NIAGARA FALLS CITY ON	E/51.7	13.34	<u>59</u>
<u>10</u>	SCT	SANDT PRINTING COMPANY LTD	9515 MONTROSE RD NIAGARA FALLS ON L2E 6X6	E/51.7	13.34	<u>60</u>
<u>10</u>	SCT	DAY-TIMERS OF CANADA LTD.	9515 Montrose Rd Niagara Falls ON L2E 6X6	E/51.7	13.34	<u>60</u>
<u>10</u>	GEN	JOY DISPLAYS	9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	E/51.7	13.34	<u>60</u>
<u>10</u>	GEN	JOY DISPLAYS 22-250	9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	E/51.7	13.34	<u>60</u>
<u>10</u>	CA	Aditya Birla Minacs Worldwide Inc.	9515 Montrose Rd Niagara Falls ON	E/51.7	13.34	<u>61</u>
<u>10</u>	ECA	Aditya Birla Minacs Worldwide Inc.	9515 Montrose Rd Niagara Falls ON	E/51.7	13.34	<u>61</u>
<u>10</u>	GEN	ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	E/51.7	13.34	<u>61</u>
<u>10</u>	GEN	BAZAAR & NOVELTY LTD	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	E/51.7	13.34	<u>62</u>
<u>10</u>	GEN	ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON L0S 1K0	E/51.7	13.34	<u>62</u>
<u>10</u>	EHS		9515 Montrose Rd Niagara Falls ON L0S1K0	E/51.7	13.34	<u>63</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>10</u>	GEN	ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	E/51.7	13.34	<u>63</u>
<u>10</u>	GEN	ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	E/51.7	13.34	<u>63</u>
<u>11</u>	WWIS		lot 4 con 1 ON Well ID: 6600625	SW/56.8	14.19	<u>64</u>
<u>12</u>	WWIS		lot 2 ON Well ID: 6600616	SSE/62.3	13.19	<u>67</u>
<u>13</u>	WWIS		lot 3 ON Well ID: 6600618	SSW/63.3	13.19	<u>69</u>
<u>14</u>	WWIS		lot 10 ON Well ID: 6602673	E/90.1	8.81	<u>72</u>
<u>15</u>	SPL	PRIVATE BUSINESS	9514 MONTROSE RD R.R. #1 PORT ROBINSON STORAGE TANK THOROLD CITY ON	E/94.1	-0.60	<u>76</u>
<u>15</u>	GEN	MOTORWAYS TRANSPORT	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	E/94.1	-0.60	<u>77</u>
<u>15</u>	GEN	MOTORWAYS TRANSPORT (OUT OF BUS.)	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	E/94.1	-0.60	<u>77</u>
<u>15</u>	GEN	MOTORWAYS TRANSPORT (OUT OF BUS.) 27-492	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	E/94.1	-0.60	<u>77</u>
<u>15</u>	GEN	DONALD W MURRAY (MOVERS) 1981 LIMITED	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>77</u>
<u>15</u>	GEN	CROWN TRUCKING SERVICES	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>78</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>78</u>
		Environmental Pick Information			210211004	

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	E/94.1	-0.60	<u>79</u>
<u>15</u>	EHS		9514 Montrose Road Niagara Falls ON	E/94.1	-0.60	<u>79</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	E/94.1	-0.60	<u>79</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	E/94.1	-0.60	<u>80</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>80</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	E/94.1	-0.60	<u>81</u>
<u>15</u>	GEN	Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON	E/94.1	-0.60	<u>81</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>82</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>82</u>
<u>15</u>	GEN	Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	E/94.1	-0.60	<u>83</u>
<u>15</u>	GEN	Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	E/94.1	-0.60	<u>83</u>
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>84</u>
<u>15</u>	GEN	Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	E/94.1	-0.60	<u>84</u>

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Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>15</u>	GEN	DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	E/94.1	-0.60	<u>84</u>
<u>15</u>	EHS		9514 Montrose Rd Niagara Falls ON L0S1K0	E/94.1	-0.60	<u>85</u>
<u>15</u>	GEN	ES Fox	9514 Montrose Road Niagara Falls ON LOS 1K0	E/94.1	-0.60	<u>85</u>
<u>15</u>	GEN	ES Fox	9514 Montrose Road Niagara Falls ON L0S 1K0	E/94.1	-0.60	<u>86</u>
<u>16</u>	WWIS		lot 2 con 1 ON <i>Well ID:</i> 6604508	SSE/102.6	13.19	<u>86</u>
<u>17</u>	EHS		9515 Montrose Rd Niagara Falls ON	E/105.1	11.58	<u>90</u>
<u>17</u>	EHS		9515 Montrose Rd Niagara Falls ON	E/105.1	11.58	<u>91</u>
<u>17</u>	EHS		9515 Montrose Rd Niagara Falls ON	E/105.1	11.58	<u>91</u>
<u>17</u>	EHS		9515 Montrose Rd Niagara Falls ON	E/105.1	11.58	<u>91</u>
<u>17</u>	EHS		9515 Montrose Rd Niagara Falls ON	E/105.1	11.58	<u>91</u>
<u>18</u>	OOGW	E & A. Cruickshank #1	Crowland ON <i>Licence No:</i> F014193	SW/111.5	14.85	<u>91</u>
<u>19</u>	OOGW	W. C. Patterson Gas Co. A & E Woodgate	Crowland ON <i>Licence No:</i> F014190	S/142.8	13.30	<u>94</u>
<u>20</u>	WWIS		lot 1 ON	ESE/154.0	12.19	<u>97</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 6600612			
<u>21</u>	WWIS		lot 1 ON <i>Well ID:</i> 6600613	ESE/155.4	12.19	<u>101</u>
<u>22</u>	CA	FORD MOTOR CO. OF CANADA	9127 MONTROSE RD. NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>104</u>
<u>22</u>	CA	FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>104</u>
<u>22</u>	CA	FORD MOTOR COMPANY OF CANADA (NIAGARA GL	9127 MONTROSE ROAD NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>104</u>
<u>22</u>	NPCB	FORD MOTOR COMPANY OF CANADA	9127 MONTROSE ROAD; BOX 1019 NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>105</u>
<u>22</u>	NPCB	FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>105</u>
<u>22</u>	SPL	FORD MOTOR CO. OF CANADA LTD.	WELLAND RIVER NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>105</u>
<u>22</u>	SPL	FORD MOTOR CO. OF CANADA LTD.	9127 MONTROSE RD NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>106</u>
<u>22</u>	CA	FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE RD. DUPLICATE NIAGARA FALLS CITY ON	ENE/168.9	17.69	<u>106</u>
<u>22</u>	CA		9127 Montrose Avenue Niagara Falls ON	ENE/168.9	17.69	<u>107</u>
<u>22</u>	CA	E.S. Fox Construction	9127 Montrose Rd. Niagara Falls ON	ENE/168.9	17.69	<u>107</u>
<u>22</u>	EBR	E.S. Fox Enterprises Inc.	9127 Montrose Rd. Niagara Falls Ontario L2E 5S6 Niagara Falls ON	ENE/168.9	17.69	<u>107</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>22</u>	OPCB	FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>108</u>
<u>22</u>	GEN	FORD MOTOR CO. OF CANADA LTD.	NIAGARA GLASS PLANT P.O. BOX 1019, 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>108</u>
<u>22</u>	GEN	FORD (OUT OF BUS) 15-110	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>109</u>
22	GEN	FORD MOTOR COMPANY OF CANADA LTD. 15-110	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>110</u>
<u>22</u>	GEN	FORD (OUT OF BUS) MOTOR COMPANY	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	ENE/168.9	17.69	<u>111</u>
<u>22</u>	GEN	E.S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>112</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>113</u>
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Road Niagara Falls ON	ENE/168.9	17.69	<u>114</u>
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Road Niagara Falls ON	ENE/168.9	17.69	<u>115</u>
<u>22</u>	SCT	E.S. Fox Ltd.	9127 Montrose Rd Niagara Falls ON L2E 6S5	ENE/168.9	17.69	<u>115</u>
<u>22</u>	FSTH	E S FOX LTD	9127 MONTROSE RD NIAGARA FALLS ON	ENE/168.9	17.69	<u>115</u>
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	ENE/168.9	17.69	<u>116</u>
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	ENE/168.9	17.69	<u>116</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	ENE/168.9	17.69	<u>117</u>
<u>22</u>	FSTH	E S FOX LTD	9127 MONTROSE RD NIAGARA FALLS ON	ENE/168.9	17.69	<u>117</u>
<u>22</u>	NCPL	E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	ENE/168.9	17.69	<u>117</u>
<u>22</u>	CA	E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON	ENE/168.9	17.69	<u>118</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	ENE/168.9	17.69	<u>118</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	ENE/168.9	17.69	<u>119</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	ENE/168.9	17.69	<u>120</u>
22	FST	E.S. FOX LTD **	9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA ON	ENE/168.9	17.69	<u>121</u>
<u>22</u>	FST	E.S. FOX LTD **	9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA ON	ENE/168.9	17.69	<u>122</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>122</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	ENE/168.9	17.69	<u>123</u>
<u>22</u>	EBR	E.S. Fox Limited	9127 Montrose Road Niagara Falls, Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS	ENE/168.9	17.69	<u>124</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			ON			
<u>22</u>	EBR	E.S. Fox Limited	9127 Montrose Road Niagara Falls Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS ON	ENE/168.9	17.69	<u>125</u>
<u>22</u>	ECA	E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	ENE/168.9	17.69	<u>125</u>
<u>22</u>	ECA	E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	ENE/168.9	17.69	<u>126</u>
<u>22</u>	ECA	E.S. Fox Enterprises Inc.	9127 Montrose Avenue Niagara Falls ON L2E 5S6	ENE/168.9	17.69	<u>126</u>
<u>22</u>	ECA	E.S. Fox Enterprises Inc.	9127 Montrose Rd. Niagara Falls ON L2E 5S6	ENE/168.9	17.69	<u>126</u>
<u>22</u>	ECA	E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	ENE/168.9	17.69	<u>126</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>127</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>128</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>129</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>130</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>131</u>
<u>22</u>	GEN	E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	ENE/168.9	17.69	<u>132</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>23</u>	EHS		Montrose Road & Biggar Road Niagara Falls ON	SE/174.3	11.38	<u>133</u>
<u>24</u>	WWIS		MONTROSE RD Niagara Falls ON Well ID: 7231244	ENE/174.5	19.67	<u>133</u>
<u>25</u>	SPL	The Regional Municipality of Niagara	9240 Montrose Rd Niagara Falls ON	ENE/190.4	17.92	<u>138</u>
<u>25</u>	CA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON	ENE/190.4	17.92	<u>138</u>
<u>25</u>	CA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON	ENE/190.4	17.92	<u>139</u>
<u>25</u>	CA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON	ENE/190.4	17.92	<u>139</u>
<u>25</u>	ECA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	ENE/190.4	17.92	<u>139</u>
<u>25</u>	ECA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	ENE/190.4	17.92	<u>139</u>
<u>25</u>	ECA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	ENE/190.4	17.92	<u>140</u>
<u>25</u>	ECA	The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	ENE/190.4	17.92	<u>140</u>
<u>25</u>	SPL	The Regional Municipality of Niagara	9240 Montrose Rd; 3450 Stanley Ave Niagara Falls; Niagara Falls ON	ENE/190.4	17.92	<u>140</u>
<u>26</u>	EHS		7047 Reixinger Road Niagara Falls ON	NW/206.4	7.04	<u>141</u>
27	wwis		MONTROSE RD & KYONS CREEK RD NIAGARA FALLS ON	ESE/211.1	12.19	141

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7200894			
<u>28</u>	OOGW	W.C. Patterson C.A. Biggar #2	Crowland ON <i>Licence No:</i> F014144	W/227.7	14.31	<u>143</u>
<u>29</u>	WWIS		ON <i>Well ID:</i> 7265625	ESE/229.4	12.19	<u>146</u>
<u>30</u>	WWIS		MONROSE RD Niagara Falls ON Well ID: 7305848	ENE/230.0	21.74	<u>147</u>
<u>31</u>	EHS		Montrose Road And Lyons Creek Road Niagara Falls ON	SE/249.8	11.19	<u>149</u>
<u>32</u>	WWIS		lot 1 ON <i>Well ID</i> : 6600614	SE/287.2	12.19	<u>149</u>

Executive Summary: Summary By Data Source

<u>CA</u> - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 12 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u> DAY-TIMERS OF CANADA LTD.	<u>Address</u> 9515 MONTROSE ROAD NIAGARA FALLS CITY ON	<u>Distance (m)</u> 51.7	<u>Map Key</u> <u>10</u>
Aditya Birla Minacs Worldwide Inc.	9515 Montrose Rd Niagara Falls ON	51.7	<u>10</u>
FORD MOTOR CO. OF CANADA	9127 MONTROSE RD. NIAGARA FALLS CITY ON	168.9	<u>22</u>
FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS CITY ON	168.9	<u>22</u>
E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Construction	9127 Montrose Rd. Niagara Falls ON	168.9	<u>22</u>
FORD MOTOR COMPANY OF CANADA (NIAGARA GL	9127 MONTROSE ROAD NIAGARA FALLS CITY ON	168.9	<u>22</u>
FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE RD. DUPLICATE NIAGARA FALLS CITY ON	168.9	<u>22</u>
	9127 Montrose Avenue Niagara Falls ON	168.9	<u>22</u>

<u>Site</u> The Corporation of the City of Niagara Falls	<u>Address</u> 9240 Montrose Rd Niagara Falls ON	<u>Distance (m)</u> 190.4	<u>Map Key</u> <u>25</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON	190.4	<u>25</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON	190.4	<u>25</u>

EBR - Environmental Registry

A search of the EBR database, dated 1994- Jun 30, 2021 has found that there are 3 EBR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
E.S. Fox Enterprises Inc.	9127 Montrose Rd. Niagara Falls Ontario L2E 5S6 Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Limited	9127 Montrose Road Niagara Falls Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS ON	168.9	<u>22</u>
E.S. Fox Limited	9127 Montrose Road Niagara Falls, Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS ON	168.9	<u>22</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2021 has found that there are 10 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	<u>Map Key</u>
Aditya Birla Minacs Worldwide Inc.	9515 Montrose Rd Niagara Falls ON	51.7	<u>10</u>
E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	168.9	<u>22</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
E.S. Fox Enterprises Inc.	9127 Montrose Rd. Niagara Falls ON L2E 5S6	168.9	<u>22</u>
E.S. Fox Enterprises Inc.	9127 Montrose Avenue Niagara Falls ON L2E 5S6	168.9	<u>22</u>
E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	168.9	<u>22</u>
E.S. Fox Limited	9127 Montrose Rd Niagara Falls ON L2E 7J9	168.9	<u>22</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	190.4	<u>25</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	190.4	<u>25</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	190.4	<u>25</u>
The Corporation of the City of Niagara Falls	9240 Montrose Rd Niagara Falls ON L2E 6X5	190.4	<u>25</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 13 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	Address	<u>Distance (m)</u>	<u>Map Key</u>
	n/a Niagara Falls ON	0.0	<u>1</u>

<u>Address</u> 8365 Biggar Rd Niagara Falls ON L0S1K0	<u>Distance (m)</u> 29.6	<u>Map Key</u> <u>9</u>
9515 Montrose Rd Niagara Falls ON L0S1K0	51.7	<u>10</u>
9514 Montrose Rd Niagara Falls ON L0S1K0	94.1	<u>15</u>
9514 Montrose Road Niagara Falls ON	94.1	<u>15</u>
9515 Montrose Rd Niagara Falls ON	105.1	<u>17</u>
9515 Montrose Rd Niagara Falls ON	105.1	<u>17</u>
9515 Montrose Rd Niagara Falls ON	105.1	<u>17</u>
9515 Montrose Rd Niagara Falls ON	105.1	<u>17</u>
9515 Montrose Rd Niagara Falls ON	105.1	<u>17</u>
Montrose Road & Biggar Road Niagara Falls ON	174.3	<u>23</u>
7047 Reixinger Road Niagara Falls ON	206.4	<u>26</u>
Montrose Road And Lyons Creek Road Niagara Falls ON	249.8	<u>31</u>

22

Map Key

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 2 FST site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	Address	<u>Distance (m)</u>	<u>Map Key</u>
E.S. FOX LTD **	9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA ON	168.9	<u>22</u>
E.S. FOX LTD **	9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA ON	168.9	<u>22</u>

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
E S FOX LTD	9127 MONTROSE RD NIAGARA FALLS ON	168.9	<u>22</u>
E S FOX LTD	9127 MONTROSE RD NIAGARA FALLS ON	168.9	<u>22</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 57 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	0.0	<u>3</u>

<u>Site</u> 2285045 Ontario Inc. Grand Niagara Golf Club	<u>Address</u> 8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	<u>Distance (m)</u> 0.0	<u>Map Key</u> <u>3</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0	0.0	<u>3</u>
Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
Grand Niagara Resort Inc.	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	0.0	<u>3</u>
2285045 Ontario Inc. Grand Niagara Golf Club	8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON	0.0	<u>3</u>
ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	51.7	<u>10</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
JOY DISPLAYS	9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	51.7	<u>10</u>
JOY DISPLAYS 22-250	9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	51.7	<u>10</u>
ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	51.7	<u>10</u>
BAZAAR & NOVELTY LTD	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	51.7	<u>10</u>
ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON LOS 1K0	51.7	<u>10</u>
ARROW GAMES CORPORATION	9515 MONTROSE ROAD UNIT 2 PORT ROBINSON ON L0S 1K0	51.7	<u>10</u>
MOTORWAYS TRANSPORT	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	94.1	<u>15</u>
MOTORWAYS TRANSPORT (OUT OF BUS.)	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	94.1	<u>15</u>
MOTORWAYS TRANSPORT (OUT OF BUS.) 27-492	9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	94.1	<u>15</u>
DONALD W MURRAY (MOVERS) 1981 LIMITED	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>
CROWN TRUCKING SERVICES	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>

Site DONALD W. MURRAY MOVERS (1981) LTD	<u>Address</u> 9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	<u>Distance (m)</u> 94.1	<u>Map Key</u> <u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON	94.1	<u>15</u>
Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>
Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	94.1	<u>15</u>
Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
Crown Transportation Group Limited	9514 Montrose Road Niagara Falls ON L0S 1K0	94.1	<u>15</u>
DONALD W. MURRAY MOVERS (1981) LTD	9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	94.1	<u>15</u>
ES Fox	9514 Montrose Road Niagara Falls ON L0S 1K0	94.1	<u>15</u>
ES Fox	9514 Montrose Road Niagara Falls ON L0S 1K0	94.1	<u>15</u>
FORD MOTOR CO. OF CANADA LTD.	NIAGARA GLASS PLANT P.O. BOX 1019, 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>
FORD (OUT OF BUS) 15-110	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>
FORD MOTOR COMPANY OF CANADA LTD. 15-110	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>
FORD (OUT OF BUS) MOTOR COMPANY	NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>
E.S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	168.9	<u>22</u>

<u>Site</u> E. S. FOX LIMITED	<u>Address</u> 9127 MONTROSE ROAD NIAGARA FALLS ON	<u>Distance (m)</u> 168.9	<u>Map Key</u> <u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>
E. S. FOX LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	168.9	<u>22</u>

NCPL - Non-Compliance Reports

A search of the NCPL database, dated Dec 31, 2019 has found that there are 6 NCPL site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u> E.S. Fox Enterprises Inc.	<u>Address</u> 9127 Montrose Ave Niagara Falls ON	<u>Distance (m)</u> 168.9	<u>Map Key</u> 22
E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Enterprises Inc.	9127 Montrose Road Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Enterprises Inc.	9127 Montrose Ave Niagara Falls ON	168.9	<u>22</u>
E.S. Fox Enterprises Inc.	9127 Montrose Road Niagara Falls ON	168.9	<u>22</u>

<u>NPCB</u> - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 2 NPCB site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>
FORD MOTOR COMPANY OF CANADA	9127 MONTROSE ROAD; BOX 1019 NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>

OOGW - Ontario Oil and Gas Wells

A search of the OOGW database, dated 1800-Jun 2020 has found that there are 3 OOGW site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	Address	Distance (m)	<u>Map Key</u>
E & A. Cruickshank #1	Crowland ON	111.5	<u>18</u>
	Licence No: F014193		
W. C. Patterson Gas Co. A & E Woodgate	Crowland ON	142.8	<u>19</u>
W.C. Patterson C.A. Biggar #2		227.7	28
	Crowland ON		20
	Licence No: F014144		

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 1 OPCB site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
FORD MOTOR COMPANY OF CANADA, LIMITED	9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	168.9	<u>22</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 3 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
SANDT PRINTING COMPANY LTD	9515 MONTROSE RD NIAGARA FALLS ON L2E 6X6	51.7	<u>10</u>
DAY-TIMERS OF CANADA LTD.	9515 Montrose Rd Niagara Falls ON L2E 6X6	51.7	<u>10</u>
E.S. Fox Ltd.	9127 Montrose Rd Niagara Falls ON L2E 6S5	168.9	<u>22</u>

SPL - Ontario Spills

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

<u>Site</u> PRIVATE BUSINESS	Address 9514 MONTROSE RD R.R. #1 PORT ROBINSON STORAGE TANK THOROLD CITY ON	<u>Distance (m)</u> 94.1	<u>Map Key</u> <u>15</u>
FORD MOTOR CO. OF CANADA LTD.	9127 MONTROSE RD NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	168.9	<u>22</u>
FORD MOTOR CO. OF CANADA LTD.	WELLAND RIVER NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	168.9	<u>22</u>
The Regional Municipality of Niagara	9240 Montrose Rd Niagara Falls ON	190.4	<u>25</u>
The Regional Municipality of Niagara	9240 Montrose Rd; 3450 Stanley Ave Niagara Falls; Niagara Falls ON	190.4	<u>25</u>

WWIS - Water Well Information System

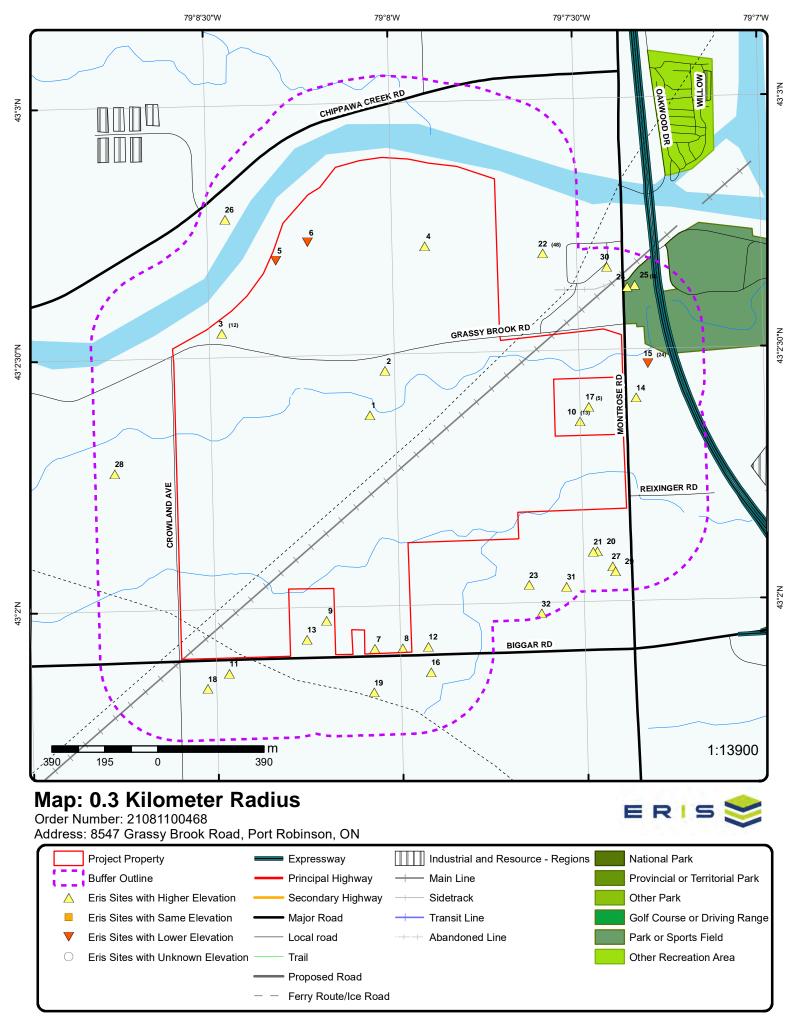
A search of the WWIS database, dated Apr 30, 2021 has found that there are 18 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	<u>Map Key</u>
	lot 3 ON	0.0	<u>2</u>
	Well ID: 6600619		
	8547 Grassy Brook Rd lot 2 Port Robinson ON	0.0	<u>4</u>
	Well ID: 7352103		
	ON	0.0	<u>5</u>
	Well ID: 7289552		
	lot 3 ON	0.0	<u>6</u>
	Well ID: 6600615		

Address lot 3 ON	<u>Distance (m)</u> 0.0	<u>Map Key</u> 7
Well ID: 6600617		
8547 Grassy Brook Rd lot 3 Port Robinson ON	0.0	<u>8</u>
Well ID: 7352071		
lot 4 con 1 ON	56.8	<u>11</u>
Well ID: 6600625		
lot 2 ON	62.3	<u>12</u>
Well ID: 6600616		
lot 3 ON	63.3	<u>13</u>
Well ID: 6600618		
lot 10 ON	90.1	<u>14</u>
Well ID: 6602673		
lot 2 con 1 ON	102.6	<u>16</u>
Well ID: 6604508		
lot 1 ON	154.0	<u>20</u>
Well ID: 6600612		
lot 1 ON	155.4	<u>21</u>
Well ID: 6600613		
MONTROSE RD Niagara Falls ON	174.5	<u>24</u>
Well ID: 7231244		
MONTROSE RD & KYONS CREEK RD NIAGARA FALLS ON	211.1	<u>27</u>
Well ID: 7200894		
ON	229.4	<u>29</u>

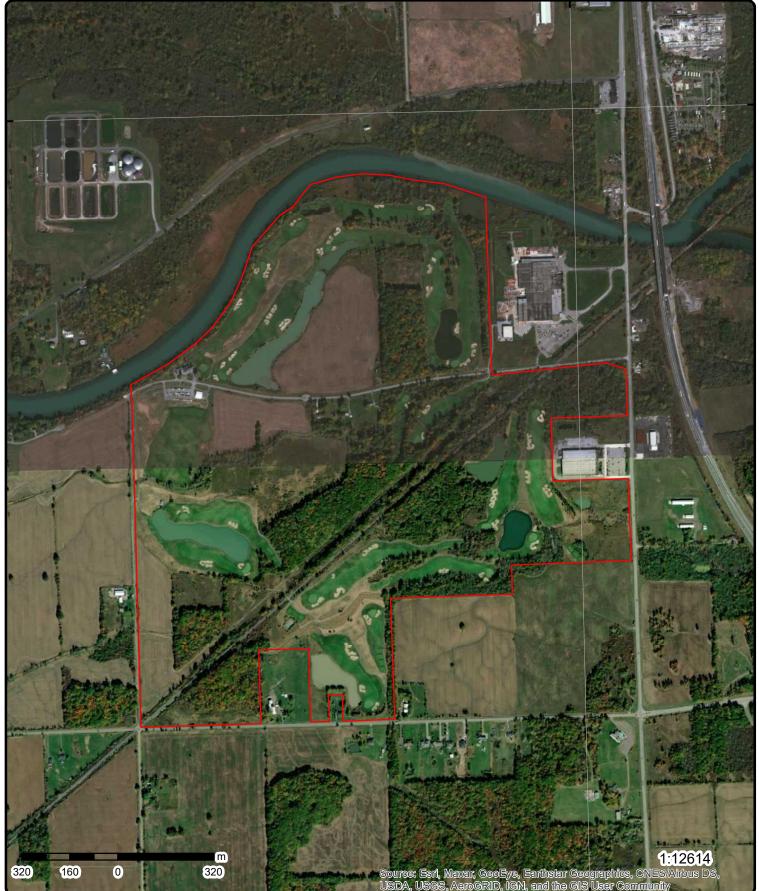
32

<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Well ID: 7265625		
MONROSE RD Niagara Falls ON	230.0	<u>30</u>
Well ID: 7305848		
lot 1 ON	287.2	<u>32</u>
Well ID: 6600614		



Source: © 2015 DMTI Spatial Inc.

© ERIS Information Limited Partnership



Aerial Year: 2020

Address: 8547 Grassy Brook Road, Port Robinson, ON

Source: ESRI World Imagery

43°3'N

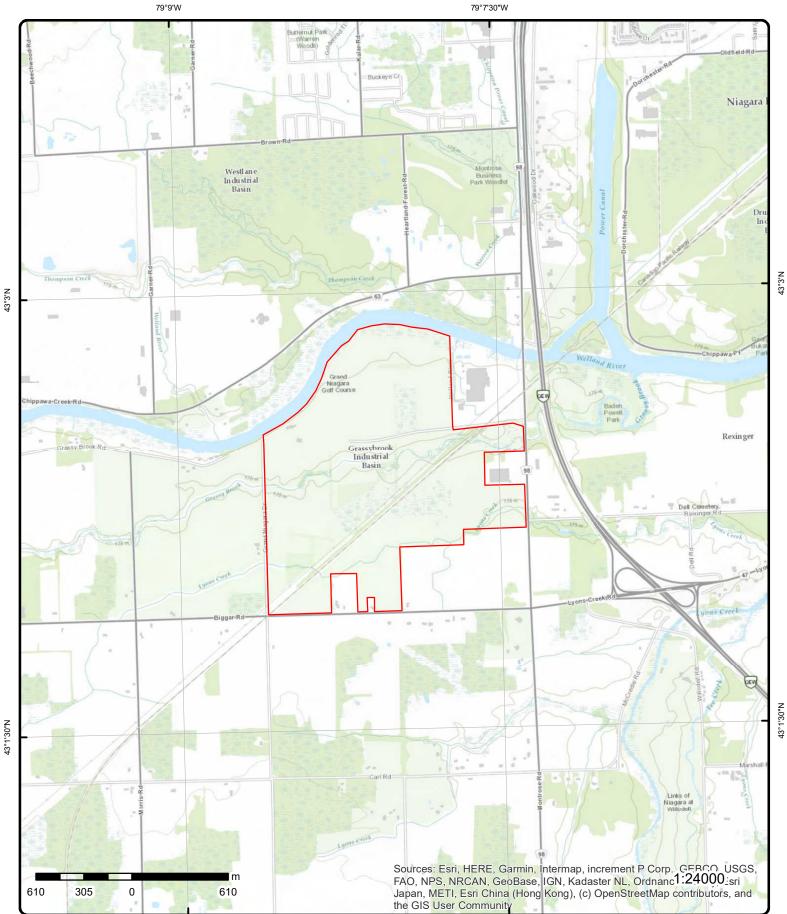
Order Number: 21081100468



43°3'N

79°7'30"W

© ERIS Information Limited Partnership



Topographic Map

Address: 8547 Grassy Brook Road, ON

Source: ESRI World Topographic Map

Order Number: 21081100468



© ERIS Information Limited Partnership

Detail Report

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
<u>1</u>	1 of 1		ESE/0.0	168.2 / 4.60	n/a Niagara Falls ON		EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building Additional Inf	ed: e Name: Size:	201510290 C Custom Re 04-NOV-15 29-OCT-15	port		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -79.134539 43.039667	
<u>2</u>	1 of 1		NNE/0.0	181.5/ 17.86	lot 3 ON		wwis
Well ID: Construction Primary Wate Sec. Water U Final Well St. Water Type: Casing Matel Audit No: Tag: Construction Method: Elevation (m, Elevation Re: Depth to Beo Well Depth: Overburden// Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	er Use: se: atus: rial: liability: lrock: Bedrock: Level:):	6600619 Domestic 0 Water Supp	sly		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 12/7/1960 True 5425 1 NIAGARA NIAGARA FALLS CITY (CROWLAND) 003 BF	
PDF URL (Ma	p):	h	ttps://d2khazk8e83	Brdv.cloudfront.net	t/moe_mapping/downloads/	2Water/Wells_pdfs/660\6600619.pdf	
Additional De Well Complet Year Complet Depth (m): Latitude: Longitude: Path:	ed Date:	1 1 3 4	960/08/26 960 1.3944 3.041119492753 79.1338171511863 60\6600619.pdf	3			
Bore Hole Infe	ormation						
Bore Hole ID DP2BR:	:	10460353 92.00			Elevation: Elevrc:	175.633911	

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Spatial Status	s:				Zone:	17	
Code OB:		r			East83:	652009.90	
Code OB Des	c:	Bedrock			North83:	4767071.00	
Open Hole:					Org CS:		
Cluster Kind:					UTMRC:	5	
Date Complet	ted:	26-Aug-1	1960 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m	
Remarks:					Location Method:	p5	
Elevrc Desc:							
Location Soui Improvement	Location Se						
Improvement							
Source Revisi		nt:					
Supplier Com	ment:						
<u>Overburden a</u> Materials Intel		<u>.</u>					
Formation ID:			932589424				
Layer:			2				
Color:			6				
General Color	:		BROWN				
Mat1:			05				
Most Commo	n Material:		CLAY				
Mat2:			• - · ·				
Mat2 Desc:							
Mat3:							
Mat3 Desc:							
Formation To	o Depth:		1.0				
Formation En	d Depth:		17.0				
Formation En		М:	ft				
Overburden a Materials Inter		<u>.</u>					
Formation ID:			932589423				
Layer:			1				
Color:			·				
General Color							
Mat1:			02				
Most Commo	n Material [.]		TOPSOIL				
Mat2:	, matorian						
Mat2 Desc:							
Mat3:							
Mat3 Desc:							
Formation To	o Depth:		0.0				
Formation En	d Depth:		1.0				
Formation En	d Depth UO	М:	ft				
<u>Overburden a</u> Materials Intel		<u>r</u>					
Formation ID:			932589425				
Layer:			3				
Color:			3				
General Color	:		BLUE				
Mat1:			05				
Most Commo	n Material:		CLAY				
Mat2:							
Mat2 Desc:							
Mat3:							
Mat3: Mat3 Desc:							
Mat3: Mat3 Desc: Formation Top	o Depth:		17.0				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation E	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID Layer: Color:		932589428 6			
General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3:		15 LIMESTONE			
Mat3 Desc: Formation To Formation El	op Depth: nd Depth: nd Depth UOM:	92.0 103.0 ft			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo		932589426 4			
Mat1: Most Commo Mat2:		09 MEDIUM SAND			
Mat2 Desc: Mat3: Mat3 Desc: Formation To		50.0			
Formation El Formation El	nd Depth: nd Depth UOM:	83.0 ft			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo		932589427 5			
Mat1: Most Commo Mat2: Mat2 Desc: Mat3:		11 GRAVEL			
Mat3 Desc: Formation To Formation El Formation El		83.0 92.0 ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction Code:	966600619 1 Cable Tool			

Pipe Information

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Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		11008923			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction</u>	n Record - Casing				
Casing ID:		930747644			
Layer:		1			
Material:		1			
Open Hole of Depth From:		STEEL			
Depth To:		92			
Casing Diam		6			
Casing Diam		inch			
Casing Dept	h UOM:	ft			
Construction	<u>n Record - Casing</u>				
Casing ID:		930747645			
Layer:		2			
Material:		4			
Open Hole of Depth From:		OPEN HOLE			
Depth To:		103			
Casing Diam	eter	6			
Casing Diam		inch			
Casing Dept		ft			
<u>Results of W</u>	ell Yield Testing				
Pump Test IL		996600619			
Pump Set At					
Static Level:		17.0			
	fter Pumping:	80.0			
	ed Pump Depth:	80.0 2.0			
Pumping Rate	ισ.	2.0			
Recommend	ed Pump Rate:	2.0			
Levels UOM:		ft			
Rate UOM:		GPM			
	After Test Code:	2			
Water State	After Test:	CLOUDY			
Pumping Tes		1			
Pumping Du		0			
Pumping Du	ration MIN.	30			

Water Details

Flowing:

Pumping Duration MIN:

3	1 of 12	WNW/0.0	167.6 / 3.91	Grand Niagara Resort Inc.	GEN
Layer: Kind Code Kind: Water Fou	e: Ind Depth: Ind Depth UOM:	1 3 SULPHUR 100.0 ft			
Water ID:		933947887			

3

WNW/0.0

0 30 No

Grand Niagara Resort Inc. 8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON LOS 1K0

GEN

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator N Status:	lo:	ON30049	14		PO Box No: Country:	
Approval Ye Contam. Fac	cility:	04,07,08			Choice of Contact: Co Admin:	
MHSW Facil SIC Code: SIC Descript	•	713910	Golf Courses and	Country Clubs	Phone No Admin:	
<u>3</u>	2 of 12		WNW/0.0	167.6 / 3.91	Grand Niagara Resort Inc. 8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	GEN
Generator N Status:	o:	ON30049	14		PO Box No:	
Approval Ye Contam. Fac		05,07,08			Country: Choice of Contact: Co Admin:	
MHSW Facil SIC Code:		713910			Phone No Admin:	
SIC Descript	ion:	110010	Golf Courses and	Country Clubs		
<u>Detail(s)</u>						
Waste Class. Waste Class			252 WASTE OILS & LU	JBRICANTS		
<u>3</u>	3 of 12		WNW/0.0	167.6/ 3.91	Grand Niagara Resort Inc. 8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	GEN
Generator N	lo:	ON30049	14		PO Box No:	
Status: Approval Ye Contam. Fac MHSW Facil	cility:	2009			Country: Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	713910	Golf Courses and	Country Clubs		
<u>Detail(s)</u>						
Waste Class Waste Class			252 WASTE OILS & LU	JBRICANTS		
<u>3</u>	4 of 12		WNW/0.0	167.6 / 3.91	Grand Niagara Resort Inc. 8547 GRASSY BROOK RD. RR1 PORT ROBINSON ON L0S 1K0	GEN
Generator N	o:	ON30049	14		PO Box No:	
Status: Approval Ye		2010			Country: Choice of Contact:	
Contam. Fac MHSW Facil					Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	713910	Golf Courses and	Country Clubs		
<u>Detail(s)</u>						
Waste Class. Waste Class			252 WASTE OILS & LU	JBRICANTS		

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>3</u>	5 of 12		WNW/0.0	167.6 / 3.91	Grand Niagara Reso 8547 GRASSY BROO PORT ROBINSON O	OK RD. RR1	GEN
Generator No	o:	ON30049	914		PO Box No:		
Status: Approval Yea Contam. Faci	ility:	2012			Country: Choice of Contact: Co Admin:		
MHSW Facilia SIC Code: SIC Descriptio	•	713910	Golf Courses and C	country Clubs	Phone No Admin:		
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
<u>3</u>	6 of 12		WNW/0.0	167.6 / 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON O		GEN
Generator No Status:): 	ON30049	914		PO Box No: Country:		
Approval Yea Contam. Faci		2013			Choice of Contact: Co Admin:		
MHSW Facilit SIC Code:	•	713910			Phone No Admin:		
SIC Description	on:		GOLF COURSES A	ND COUNTRY C	LUBS		
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
<u>3</u>	7 of 12		WNW/0.0	167.6 / 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON C		GEN
Generator No): 	ON30049	914		PO Box No:	Occurate	
Status: Approval Yea Contam. Faci MHSW Facilit	ility:	2016 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL	
SIC Code: SIC Descriptio	•	713910	GOLF COURSES A	ND COUNTRY C			
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
<u>3</u>	8 of 12		WNW/0.0	167.6 / 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON O		GEN
Generator No): 	ON30049	914		PO Box No:	Canada	
Status: Approval Yea Contam. Faci MHSW Facilit SIC Code:	ility:	2015 No No 713910			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL	
0.0 00de.		, 10010					

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Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
SIC Descript	tion:		GOLF COURSES A	AND COUNTRY CI	UBS		
<u>Detail(s)</u>							
Waste Class Waste Class			252 WASTE OILS & LU	BRICANTS			
<u>3</u>	9 of 12		WNW/0.0	167.6/ 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON O		GEN
Generator N Status: Approval Ye Contam. Faci MHSW Facil SIC Code: SIC Descript	ears: cility: lity:	ON30049 2014 No No 713910	GOLF COURSES A	AND COUNTRY CI	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: LUBS	Canada CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class Waste Class			252 WASTE OILS & LU	BRICANTS			
<u>3</u>	10 of 12		WNW/0.0	167.6 / 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON O		GEN
Generator N Status: Approval Ye Contam. Fac MHSW Facil SIC Code: SIC Descript	ears: cility: lity:	ON30049 Registere As of Dec	ed		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class Waste Class			252 L Waste crankcase o	ils and lubricants			
<u>3</u>	11 of 12		WNW/0.0	167.6 / 3.91	2285045 Ontario Inc. 8547 GRASSY BROO PORT ROBINSON O		GEN
Generator N Status: Approval Ye Contam. Faci MHSW Facil SIC Code: SIC Descript	ears: cility: lity:	ON30049 Registere As of Jul	ed		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class Waste Class			252 L Waste crankcase o	ils and lubricants			

Map Key	Number Records			Elev/Diff (m)	Site		D
<u>3</u>	12 of 12	WNW/0	.0	167.6 / 3.91	2285045 Ontario Ind 8547 GRASSY BRO PORT ROBINSON		GEN
Generator No: Status: Approval Year Contam. Facil MHSW Facility SIC Code: SIC Description	rs: ity: /:	ON3004914 Registered As of Apr 2021			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class D	esc:	252 L Waste crar	nkcase oi	ls and lubricants			
4	1 of 1	NNE/0.0)	174.8/ 11.18	8547 Grassy Brook Port Robinson ON	Rd lot 2	WW
Well ID:		7352103			Data Entry Status:		
Construction		• • •			Data Src:		
Primary Water Sec. Water Us		Monitoring			Date Received: Selected Flag:	1/27/2020 True	
Final Well Star		Observation Wells			Abandonment Rec:	The	
Water Type:					Contractor:	6607	
Casing Materia	al:				Form Version:	9	
Audit No: Taq:		YDGYB4DO A286752			Owner: Street Name:	8547 Grassy Brook Rd	
Construction		A200132			County:	NIAGARA	
Method:					Municipality		
Elevation (m): Elevation Relia					Municipality: Site Info:	NIAGARA FALLS CITY (CROV BW 19-1	VLAND)
Depth to Bedr	•				Lot:	002	
Well Depth:					Concession:		
Overburden/B Pump Rate:	edrock:				Concession Name: Easting NAD83:	BF	
Static Water L	evel:				Northing NAD83:		
Flowing (Y/N):					Zone:		
Flow Rate: Clear/Cloudy:					UTM Reliability:		
PDF URL (Map):	https://d2k	nazk8e83	Brdv.cloudfront.ne	t/moe_mapping/download	s/2Water/Wells_pdfs/735\7352103.	pdf
Additional Deta	ail(s) (Map)					
Well Complete	d Date:	2019/12/10)				
Year Complete		2019					
Depth (m):		8.8	0444500				
Latitude: Longitude:		43.045221 -79.131899					
Path:		735\73521		,			
Bore Hole Info	<u>rmation</u>						
Bore Hole ID:		1007988085			Elevation:		
DP2BR:					Elevrc:	17	
Spatial Status Code OB:	•				Zone: East83:	17 652156.00	
Code OB Desc	o:				North83:	4767530.00	
Open Hole:					Org CS: UTMRC:	UTM83	
Cluster Kind:						4	

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Date Completed Remarks: Elevrc Desc:		c-2019 00:00:00		UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr	
Location Source						
Improvement Lo						
Improvement Lo Source Revisior						
Supplier Comme						
<u>Overburden and</u> <u>Materials Interva</u>						
Formation ID:		1007988974				
Layer:		1				
Color:		6				
General Color:		BROWN				
Mat1: Maat Common I	Matarial	05 CLAY				
Most Common I Mat2:	viateriai:	CLAT				
Mat2 Desc:		70				
Mat3: Mat3 Deces		73 HARD				
Mat3 Desc: Formation Top I	Denth:	0.0				
Formation End I		3.0				
Formation End I		m				
<u>Overburden and</u> Materials Interva						
Formation ID:		1007988975				
Layer:		2				
Color: General Color:		6 BROWN				
Mat1:		05				
Most Common I	Material:	CLAY				
Mat2:						
Mat2 Desc:						
Mat3:		73				
Mat3 Desc:		HARD				
Formation Top I		3.0				
Formation End I		7.599999904632568				
Formation End I	Depth UOM:	m				
<u>Overburden and</u> <u>Materials Interva</u>						
Formation ID:		1007988976				
Layer:		3 2				
Color: General Color:		2 GREY				
Mat1:		05				
Most Common N	Material:	CLAY				
Mat2:						
Mat2 Desc:						
Mat3:		85				
Mat3 Desc:	Domth	SOFT				
Formation Top I Formation End I	Deptn:	7.599999904632568 8.800000190734863				
Formation End I	Depth UOM:	m				
<u>Annular Space//</u> Sealing Record	Abandonment					

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
Plug ID:		1007989830			
Layer:		1			
Plug From:		0			
Plug To:		0.300000011920929			
Plug Depth UON	1:	m			
Annular Space/A Sealing Record	Abandonment				
Plug ID:		1007989520			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UON	1:	m			
Annular Space//	Abandonment				
Sealing Record					
Plug ID:		1007989831			
Layer:		2			
Plug From:		0.30000011920929			
Plug To:	_	6.69999980926514			
Plug Depth UON	1:	m			
<u>Method of Cons</u> <u>Use</u>	truction & Well				
Method Constru		1007988499			
Method Constru		6 Derior			
<i>Method Constru</i> Other Method Co		Boring			
Pipe Information	1				
Pipe ID:		1007988380			
Casing No:		0			
Comment: Alt Name:					
Construction Re	ecord - Screen				
Screen ID:		1007989255			
Layer:		1			
Slot:		10			
Screen Top Dep	th:	7.30000019073486			
Screen End Dep		8.80000019073486			
Screen Material:		5			
Screen Depth U	OM:	m			
Screen Diametei		cm			
Screen Diameter		6.40000009536743			
Results of Well	<u>Yield Testing</u>				
Pump Test ID:		1007988381			
Pump Set At:					
Static Level:	D				
Final Level After					
Recommended I Pumping Rate:	-ump Depth:				

Pumping Rate: Flowing Rate:

	Number of Records	F	Direction/ Distance (m)	Elev/Diff (m)	Site		D
Recommended .evels UOM:	Pump Rate:	:	m				
Rate UOM: Water State Aft Nater State Aft Pumping Test I Pumping Durat Pumping Durat Flowing:	er Test: Method: ion HR:	e:	LPM				
<u> Hole Diameter</u>							
lole ID:			1007989374				
Diameter:			21.0				
Depth From:			0.0				
Depth To:			8.800000190734863				
Hole Depth UO Hole Diameter			m cm				
5	1 of 1		NW/0.0	153.9/-9.73	ON		ww
Well ID:	72	289552			Data Entry Status:	Yes	
Construction L	Date:				Data Src:		
Primary Water					Date Received:	7/5/2017	
Sec. Water Use					Selected Flag:	True	
Final Well Stat	us:				Abandonment Rec:	7215	
Water Type: Casing Materia					Contractor: Form Version:	8	
Casing Materia Audit No:		37316			Owner:	8	
Tag:	0.	57510			Street Name:		
Construction					County:	NIAGARA	
Vethod: Elevation (m):					Municipality:	NIAGARA FALLS CITY (C	ROWLAND)
Elevation Relia	ability:				Site Info:		,
Depth to Bedro					Lot:		
Well Depth:					Concession:		
Overburden/Be	edrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water Le	evel:				Northing NAD83:		
Flowing (Y/N):					Zone:		
Flow Rate: Clear/Cloudy:					UTM Reliability:		
PDF URL (Map)):						
Additional Deta	<u>nil(s) (Map)</u>						
Nell Completed	d Date:		2017/05/18				
Year Completed			2017				
Depth (m):							
.atitude:			43.0448357335389				
.ongitude: Path:			-79.1386263828336				
Bore Hole Infor	mation						
Bore Hole ID:	10	0066028	328		Elevation:	151.436645	
DP2BR:					Elevrc:	47	
Spatial Status:					Zone:	17	
Code OB: Code OB Desc					East83: North82:	651609.00 4767475.00	
CODE OB DESC					North83:	4/0/4/3.00	

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Map Key	Number of Records	Direction/ Distance (m	Elev/Diff) (m)	Site		DB
Improvement	eted: 18 Irce Date: t Location Sout t Location Methision Comment:	nod:		Org CS: UTMRC: UTMRC Desc: Location Method:	UTM83 4 margin of error : 30 m - 100 m wwr	
<u>6</u>	1 of 1	NNW/0.0	159.6 / -4.07	lot 3 ON		WWIS
Well ID: Construction Primary Wat Sec. Water L Final Well St Water Type: Casing Mate	n Date: er Use: No Ise: 0 tatus: Te	00615 ht Used st Hole		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	1 1/6/1961 True 2801 1	

Owner:

County:

Site Info:

Lot:

Zone:

Street Name:

Municipality:

Concession: Concession Name:

Easting NAD83:

UTM Reliability:

Northing NAD83:

NIAGARA

003

ΒF

NIAGARA FALLS CITY (CROWLAND)

Clear/Cloudy: PDF URL (Map):

Flowing (Y/N):

Audit No:

Construction

Elevation (m):

Well Depth:

Pump Rate: Static Water Level:

Flow Rate:

Elevation Reliability:

Overburden/Bedrock:

Depth to Bedrock:

Tag:

Method:

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600615.pdf

Additional Detail(s) (Map)

Well Completed Date:	1960/07/08
Year Completed:	1960
Depth (m):	25.6032
Latitude:	43.0454244026738
Longitude:	-79.1371733651039
Path:	660\6600615.pdf
Path:	660\6600615.pdf

Bore Hole Information

Bore Hole ID:	10460349	Elevation:	162.610549
DP2BR:	83.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	651725.90
Code OB Desc:	Bedrock	North83:	4767543.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	08-Jul-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			

Lievre Dese: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment:

erisinfo.com | Environmental Risk Information Services

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Supplier Con	nment:				
<u>Overburden</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color:):	932589403 5			
General Colo Mat1:	or:	05			
Most Commo Mat2: Mat2 Desc:	on Material:	CLAY 11 GRAVEL			
Mat3: Mat3 Desc:	n Danéha	13 BOULDERS			
Formation To Formation El Formation El	op Depth: nd Depth: nd Depth UOM:	42.0 45.0 ft			
<u>Overburden</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color:) <u>:</u>	932589399 1			
General Colo Mat1:	or:	02			
Mat1. Most Commo Mat2: Mat2 Desc: Mat3:	on Material:	TOPSOIL			
Mat3 Desc: Formation To Formation E		0.0 1.0 ft			
	and Bedrock				
Formation ID		932589408			
Layer: Color: General Colo) <i>**</i>	10			
Mat1: Most Commo Mat2:		05 CLAY 13			
Mat2 Desc: Mat3:		BOULDERS			
Mat3 Desc: Formation Te Formation El	op Depth: nd Depth:	81.0 83.0			
	nd Depth UOM:	ft			
Overburden Materials Inte	and Bedrock erval				
Formation ID Layer:):	932589401 3 7			
Color: General Colo Mat1:		7 RED 05			
Most Commo	on Material:	CLAY			

• •	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top D		9.0			
Formation End D Formation End D		26.0 ft			
Formation End D	eptil OOM.	π			
Overburden and Materials Interva					
Formation ID:		932589406			
Layer:		8			
Color:		Ū.			
General Color:					
Mat1:		05			
Most Common M	laterial:	CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top D		64.0 76.0			
Formation End D Formation End D	eptn:	ft			
Formation End D	eptil OOM.	ii.			
Overburden and Materials Interva					
Formation ID:		932589402			
Layer:		4			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common M	ateriai:	CLAY			
Mat2: Mat2 Desc:					
Mat2 Desc. Mat3:					
Mat3 Desc:					
Formation Top D	epth:	26.0			
Formation End D	epth:	42.0			
Formation End D		ft			
<u>Overburden and</u> Materials Interva					
Formation ID:	1	932589407			
Layer:		932369407			
Color:		0			
General Color:					
Mat1:		11			
Most Common M	laterial:	GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top D		76.0			
Formation End D		81.0			
Formation End D	epth UOM:	ft			
Overburden and	Bedrock				

Overburden and Bedrock Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID):	932589404			
Layer:		6			
Color:		7			
General Colo	or:	RED			
Mat1: Most Commo	n Matarial:	05 CLAY			
Mat2:	ni malenai.	OLAT			
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To	op Depth:	45.0			
Formation Er		50.0			
Formation Er	nd Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID	:	932589400			
Layer:		2			
Color: General Colo		3 BLUE			
General Colo Mat1:	or:	05			
Most Commo	on Material	CLAY			
Mat2:	in material.	02.11			
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To	op Depth:	1.0			
Formation Er	nd Depth: nd Depth UOM:	9.0 ft			
Formation Er	iu Deptil OOM.	n			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID	:	932589405			
Layer:		7			
Color: General Colo					
General Colo Mat1:	or:	05			
Most Commo	on Material:	CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:		50.0			
Formation To Formation Er	op Depth:	50.0 64.0			
Formation Er	nd Depth: nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Inaterials lifte	<u>= 1 V A I</u>				
Formation ID	2	932589409			
Layer:		11			
Color:					
General Colo Mat1:	<i></i>	15			
Most Commo	on Material:	LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:	_				
Formation To	op Depth:	83.0			
Formation Er	nd Depth:	84.0			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Er	nd Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction Code:	966600615 1 Cable Tool			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		11008919 1			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Deptl	eter: eter UOM:	930747638 1 STEEL 75 5 inch ft			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater Screen Dept Screen Diam Screen Diam	Depth: rial: h UOM: eter UOM:	933385506 1 75 78 ft inch			
<u>Results of W</u>	ell Yield Testing				
Recommend Pumping Rat Flowing Rate Recommend Levels UOM: Rate UOM:	: ed Pump Depth: e: e: ed Pump Rate: After Test Code: After Test: at Method: ration HR:	996600615 10.0 30.0 14.0 ft GPM 2 CLOUDY 1 8 0 No			

Water Details

	Number of Records	Direction/ Distance (m	Elev/Diff) (m)	Site		
Vater ID: .ayer: Kind Code: Kind: Vater Found D Vater Found D		933947883 1 FRESH 75.0 ft				
<u>7</u>	1 of 1	S/0.0	176.8/ 13.19	lot 3 ON	ми	
Vell ID:	6600	0617		Data Entry Status:		
Construction L	Date:			Data Src:	1	
Primary Water		nestic		Date Received:	7/19/1956	
Sec. Water Use				Selected Flag:	True	
Final Well Stat		er Supply		Abandonment Rec:		
Nater Type:				Contractor:	5425	
Casing Materia	əl·			Form Version:	1	
Audit No:				Owner:		
Taq:				Street Name:		
Construction				County:	NIAGARA	
Method:				oounty.		
Elevation (m): Elevation Relia	ability:			Municipality: Site Info:	NIAGARA FALLS CITY (CROWLAND)	
Depth to Bedro				Lot:	003	
Well Depth:				Concession:		
Overburden/Be	edrock:			Concession Name:	BF	
Pump Rate:				Easting NAD83:		
Static Water Le	evel:			Northing NAD83:		
Flowing (Y/N):				Zone:		
Flow Rate:				UTM Reliability:		
Clear/Cloudy:						
PDF URL (Map)	ł:	https://d2khazk8e	83rdv.cloudfront.net	/moe_mapping/downloads	s/2Water/Wells_pdfs/660\6600617.pdf	
Additional Deta	<u>ıil(s) (Map)</u>					
Well Completed		1956/05/29				
Year Completed	d:	1956				
Depth (m):		24.0792				
Latitude:		43.03191044072	1			
Longitude:		-79.13453817360	84			
Path:		660\6600617.pdf				
Bore Hole Infor	mation					
		60351		Elevation:	177.264419	
	1046			Elevrc:	47	
DP2BR:				Zone:	17	
DP2BR: Spatial Status:					651072.00	
DP2BR: Spatial Status: Code OB:	o	ek und an		East83:	651973.90	
DP2BR: Spatial Status: Code OB: Code OB Desc	o	rburden		East83: North83:	651973.90 4766047.00	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole:	o	rburden		East83: North83: Org CS:	4766047.00	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind:	o :: Over			East83: North83: Org CS: UTMRC:	4766047.00 9	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete	o :: Over	rburden /lay-1956 00:00:00		East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks:	o :: Over			East83: North83: Org CS: UTMRC:	4766047.00 9	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc:	• •: Over •: 29-M			East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	
<i>Date Complete Remarks: Elevrc Desc: Location Sourc</i>		/lay-1956 00:00:00		East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sourc Improvement L	ed: 29-M	/lay-1956 00:00:00 e :		East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sourc	ed: 29-M	/lay-1956 00:00:00 e :		East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	
DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sourc mprovement L	o Cover	/lay-1956 00:00:00 e :		East83: North83: Org CS: UTMRC: UTMRC Desc:	4766047.00 9 unknown UTM	

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden an Materials Inter					
Formation ID:		932589413			
Layer:		1			
Color:					
General Color:		02			
Mat1: Most Common	Matorial:	02 TOPSOIL			
Mat2:	wateriar.	TOTOOLE			
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top	Depth:	0.0			
Formation End		1.0			
Formation End	Depth UOM:	ft			
<u>Overburden an</u> Materials Inter					
Formation ID:		932589416			
Layer:		4			
Color: General Color:					
General Color: Mat1:		09			
Most Common	Material:	MEDIUM SAND			
Mat2:	matorian				
Mat2 Desc:					
Mat3:					
Mat3 Desc:	Donth	33.0			
Formation Top Formation End	Depth:	70.0			
Formation End		ft			
<u>Overburden an</u> Materials Inter					
materials inter					
Formation ID:		932589417			
Layer:		5			
Color:					
General Color: Mat1:		05			
Most Common	Material	CLAY			
Mat2:	matorian	12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:		70.0			
Formation Top	Depth:	70.0 75.0			
Formation End Formation End	Depth: Depth UOM:	ft			
<u>Overburden an</u> Materials Inter	ud Bedrock val				
		000500111			
Formation ID:		932589414			
Layer:		2 6			
Color: General Color:		6 BROWN			
Mat1:		05			
Most Common	Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc: Formation To Formation En Formation En	d Depth:	1.0 17.0 ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc:	:	932589415 3 3 BLUE 05 CLAY			
Formation Top Formation En Formation En	d Depth:	17.0 33.0 ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3:	:	932589418 6 11 GRAVEL			
Mat3 Desc: Formation Top Formation En		75.0 79.0 ft			
<u>Method of Col Use</u>	nstruction & Well				
Method Const	truction Code:	966600617 1 Cable Tool			
<u>Pipe Informati</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		11008921 1			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To:	Material:	930747641 1 STEEL 79			

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Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	
Casing Diamet Casing Diamet	ter UOM:		6 inch			
Casing Depth	UOM:		ft			
Results of Wel	Il Yield Tes	sting				
Pump Test ID: Pump Set At:			996600617			
Static Level:			12.0			
inal Level Aft Recommended			19.0			
Pumping Rate: Nowing Rate:			12.0			
ecommendec evels UOM:	и Ришр Ка	ile.	ft			
ate UOM:			GPM			
ater State Af	ter Test C	ode:	2			
/ater State Af			CLOUDY			
umping Test			1			
umping Dura umping Dura			0 30			
lowing:			No			
Vater Details						
Vater ID:			933947885			
ayer: (ind Code:			1 3			
ind:			SULPHUR			
Vater Found D	Depth:		79.0			
Vater Found D		1:	ft			
<u>8</u>	1 of 1		S/0.0	176.8/ 13.19	8547 Grassy Brook F Port Robinson ON	Rd lot 3 WV
Well ID:		7352071			Data Entry Status:	
Construction	Date:				Data Src:	
Primary Water		Monitorin	g		Date Received:	1/27/2020
Sec. Water Us			·) / - !!-		Selected Flag:	True
Final Well Stat	tus:	Observat	ion Wells		Abandonment Rec: Contractor:	6607
<i>Nater Type:</i> Casing Materia	al·				Form Version:	9
Audit No:	un	JJVIA8G	Х		Owner:	
Tag:		A286754			Street Name:	8547 Grassy Brook Rd
Construction lethod:					County:	NIAGARA
Elevation (m):					Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reli	-				Site Info:	BW 19-2
Depth to Bedr Vell Depth:	OCK:				Lot: Concession:	003
	edrock:				Concession Name:	BF
Overburden/B					Easting NAD83:	
	evel:				Northing NAD83:	
Pump Rate: Static Water L					Zone:	
Pump Rate: Static Water L Flowing (Y/N):					UTM Reliability:	
Pump Rate: Static Water L Flowing (Y/N): Flow Rate:						
Overburden/B Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Map			https://d2khazk8e83	Brdv.cloudfront.net	/moe_mapping/downloads/	2Water/Wells_pdfs/735\7352071.pdf
Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy:):	2	https://d2khazk8e83	Brdv.cloudfront.net	/moe_mapping/downloads/	2Water/Wells_pdfs/735\7352071.pdf
Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Map): ail(s) (Map	2	https://d2khazk8e83 2019/12/11	3rdv.cloudfront.net	/moe_mapping/downloads/	2Water/Wells_pdfs/735\7352071.pdf

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Year Completed Depth (m): Latitude: Longitude: Path:	:	2019 8.8 43.0319260108499 -79.1332844671665 735\7352071.pdf				
Bore Hole Inforr	nation					
Bore Hole ID: DP2BR:	100798	7989		Elevation: Elevrc:		
Spatial Status: Code OB: Code OB Desc: Open Hole:				Zone: East83: North83: Org CS:	17 652076.00 4766051.00 UTM83	
Cluster Kind: Date Completed Remarks: Elevrc Desc:		2019 00:00:00		UTMRC: UTMRC Desc: Location Method:	4 margin of error : 30 m - 100 m wwr	
Location Source Improvement Lo Improvement Lo Source Revision Supplier Comme	ocation Source: ocation Method: n Comment:					
<u>Overburden and</u> <u>Materials Interva</u>						
Formation ID: Layer: Color: General Color: Mat1: Most Common I	Natorial	1007988884 3 2 GREY 05 CLAY				
Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top I Formation End I	Depth: Depth:	85 SOFT 6.0 8.800000190734863				
Formation End I	-	m				
Materials Interva Formation ID: Layer: Color: General Color: Mat1: Most Common I Mat2:		1007988883 2 6 BROWN 05 CLAY				
Mat2 Desc: Mat3: Mat3 Desc: Formation Top I Formation End I Formation End I	Depth:	73 HARD 3.0 6.0 m				
<u>Overburden and</u> <u>Materials Interva</u>						
Formation ID:	_	1007988882				

	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	DI
Layer:		1			
Color: General Color:		6 BROWN			
Mat1:		05			
Most Common Ma Mat2: Mat2 Desc:	aterial:	CLAY			
Mata:		73			
Mat3 Desc:		HARD			
Formation Top De Formation End De		0.0 3.0			
Formation End D	epth UOM:	m			
<u>Annular Space/Al</u> <u>Sealing Record</u>	<u>bandonment</u>				
Plug ID:		1007989705			
Layer: Plug From:		2 0.300000011920929			
Plug To:		6.69999980926514			
Plug Depth UOM:		m			
<u>Annular Space/Al</u> <u>Sealing Record</u>	<u>bandonment</u>				
Plug ID:		1007989704			
Layer:		1			
Plug From: Plug To:		0 0.300000011920929			
Plug Depth UOM:		m			
<u>Annular Space/Al Sealing Record</u>	bandonment				
Plug ID:		1007989488			
Layer:		1			
Plug From: Plug To:					
Plug Depth UOM:		m			
<u>Method of Constr Use</u>	ruction & Well				
Method Construc		1007988469			
Method Construc Method Construc		6 Boring			
Other Method Co		Doning			
Pipe Information					
Pipe ID:		1007988316			
Casing No: Comment: Alt Name:		0			
Construction Rec	cord - Screen				
Screen ID:		1007989226			
Layer:		1			
Slot: Screen Top Deptl	h.	10 7.30000019073486			
Soreen Top Depu		1.0000010010010400			

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen End D			8.80000019073486				
Screen Mater			5				
Screen Depth Screen Diame			m cm				
Screen Diame			6.40000009536743				
			0.4000000000000000000000000000000000000				
<u>Results of We</u>	ell Yield Te	<u>sting</u>					
Pump Test ID			1007988317				
Pump Set At: Static Level:							
Final Level A	fter Pumpir	na:					
Recommende							
Pumping Rate		•					
Flowing Rate							
Recommende	ed Pump Ra	ate:					
Levels UOM:			m				
Rate UOM: Water State A	ftor Toot C	ada	LPM				
Water State A		oue.					
Pumping Tes							
Pumping Dur							
Pumping Dur							
Flowing:							
Hole Diamete	<u>er</u>						
Hole ID:			1007989340				
Diameter:			21.0				
Depth From:			0.0				
Depth To:			8.800000190734863	i i			
Hole Depth U	OM:		m				
Hole Diamete	er UOM:		cm				
<u>9</u>	1 of 1		SSW/29.6	176.0 / 12.31	8365 Biggar Rd Niagara Falls ON L0S	1K0	EHS
0		0040004	10405		-		
Order No: Status:		2018021 C	12135		Nearest Intersection: Municipality:	Niagara Falls	
Report Type:		Custom	Report		Client Prov/State:	ON	
Report Date:		19-FEB-	•		Search Radius (km):	.25	
Date Receive	d:	12-FEB-	·18		X:	-79.136693	
Previous Site					Y:	43.032888	
Lot/Building		3 acres					
Additional Inf	fo Ordered:		Topographic Maps; /	Aerial Photos			
				177.0 / 13.34	DAY-TIMERS OF CAN	IADA LTD.	CA
<u>10</u>	1 of 13		E/51.7	111.07 13.34	9515 MONTROSE RO. NIAGARA FALLS CIT		
<u>10</u> Certificate #:	1 of 13		E/51.7 8-2014-93-	177.07 13.34	9515 MONTROSE RO		
 Certificate #:				111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date:	′ear:		8-2014-93- 93 4/7/1993	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ	′ear:		8-2014-93- 93 4/7/1993 Industrial air	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ Status:	′ear: ne:		8-2014-93- 93 4/7/1993	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ Status: Application T Client Name:	′ear: ne: Type:		8-2014-93- 93 4/7/1993 Industrial air	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ Status: Application T Client Name: Client Addres	′ear: ne: Type:		8-2014-93- 93 4/7/1993 Industrial air	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ Status: Application T Client Name: Client Addres Client City:	Year: he: Type: ss:		8-2014-93- 93 4/7/1993 Industrial air	111.07 13.34	9515 MONTROSE RO		
Certificate #: Application Y Issue Date: Approval Typ Status: Application T Client Name: Client Addres	Year: he: Type: SS: Code:		8-2014-93- 93 4/7/1993 Industrial air		9515 MONTROSE RO. NIAGARA FALLS CIT		

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminan Emission Co			litrogen Oxides Io Controls			
<u>10</u>	2 of 13		E/51.7	177.0 / 13.34	SANDT PRINTING COMPANY LTD 9515 MONTROSE RD NIAGARA FALLS ON L2E 6X6	SCT
Established		1	966			
Plant Size (f Employmen		4	0			
<u>Details</u> Description: SIC/NAICS (COMMERCIAL PRI 1752	NTING, LITHOGF	APHIC	
<u>10</u>	3 of 13		E/51.7	177.0 / 13.34	DAY-TIMERS OF CANADA LTD. 9515 Montrose Rd Niagara Falls ON L2E 6X6	SCT
Established. Plant Size (f Employmen	t²):	C	947 50			
<u>Details</u> Description: SIC/NAICS (Other Printing 23119			
Description: SIC/NAICS (Commercial and Se 33310	rvice Industry Mae	chinery Manufacturing	
<u>10</u>	4 of 13		E/51.7	177.0 / 13.34	JOY DISPLAYS 9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	GEN
Generator N	o:	ON092030	0		PO Box No:	
Status: Approval Ye Contam. Fac		86,87,88,8	9,90		Country: Choice of Contact: Co Admin:	
MHSW Facil		0000			Phone No Admin:	
SIC Code: SIC Descript	tion:		** NOT DEFINED *	**		
<u>Detail(s)</u>						
Waste Class	:	2	52			
Waste Class	Desc:	V	VASTE OILS & LUI	BRICANTS		
<u>10</u>	5 of 13		E/51.7	177.0 / 13.34	JOY DISPLAYS 22-250 9515 MONTROSE RD. NIAGARA FALLS ON L2E 6V2	GEN
Generator N	o:	ON092030	0		PO Box No:	
Status: Approval Ye Contam. Fac		92,93,94,9	5,96,97,98		Country: Choice of Contact: Co Admin:	
MHSW Facil SIC Code:		1699			Phone No Admin:	
	ity:	1699			Phone No Admin:	

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
SIC Descript	ion:		OTHER PLASTIC F	PROD.			
<u>Detail(s)</u>							
Waste Class Waste Class			252 WASTE OILS & LU	BRICANTS			
<u>10</u>	6 of 13		E/51.7	177.0 / 13.34	Aditya Birla Minacs 9515 Montrose Rd Niagara Falls ON	Worldwide Inc.	СА
Certificate #: Application `` Issue Date: Approval Tyj Status: Application T Client Name: Client Name: Client Addre Client City: Client Postal Project Desc Contaminant Emission Co	Year: pe: Type: ss: ss: I Code: cription: ts:		0502-7XUKPC 2009 11/25/2009 Air Approved				
<u>10</u>	7 of 13		E/51.7	177.0 / 13.34	Aditya Birla Minacs 9515 Montrose Rd Niagara Falls ON	Worldwide Inc.	ECA
Approval No Approval Da Status: Record Type Link Source: SWP Area Na Approval Tyj Project Type Business Na Address: Full Address	te: ame: pe: pe: me:	0502-7X 2009-11- Approve ECA IDS Niagara	25 d Peninsula ECA-AIR AIR Aditya Birla Minacs 9515 Montrose Rd		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Niagara -79.12464 43.039783	
Full PDF Lini	k:		https://www.access	environment.ene.	gov.on.ca/instruments/643	9-7WFSDH-14.pdf	
<u>10</u>	8 of 13		E/51.7	177.0 / 13.34	ARROW GAMES CO 9515 MONTROSE R PORT ROBINSON O	OAD UNIT 2	GEN
Generator No Status: Approval Yea	ars:	ON6873 2016	775		PO Box No: Country: Choice of Contact:	Canada CO_ADMIN	
Contam. Fac MHSW Facili SIC Code: SIC Descript	ity:	No No 323119	OTHER PRINTING		Co Admin: Phone No Admin:	CAROLINE WARKENTIN 905-354-7300 Ext.236	
<u>Detail(s)</u>							
Waste Class Waste Class			212 ALIPHATIC SOLVE	INTS			
Waste Class			145				

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Waste Class	Desc:		PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Class: Waste Class			252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class			265 GRAPHIC ART WA	STES			
<u>10</u>	9 of 13		E/51.7	177.0/13.34	BAZAAR & NOVELT 9515 MONTROSE RO PORT ROBINSON O	DAD UNIT 2	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	nrs: llity: ty:	ON6873 ⁻ 2015 No No 323119	775 OTHER PRINTING		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_ADMIN CAROLINE WARKENTIN 905-354-7300 Ext.236	
<u>Detail(s)</u>							
Waste Class: Waste Class			265 GRAPHIC ART WA	STES			
Waste Class: Waste Class			252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class			212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class			145 PAINT/PIGMENT/C	OATING RESIDU	IES		
<u>10</u>	10 of 13		E/51.7	177.0 / 13.34	ARROW GAMES CO 9515 MONTROSE RO PORT ROBINSON O	DAD UNIT 2	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	nrs: llity: ly:	ON6873 Registere As of De	ed		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class			145 H Wastes from the use	e of pigments, coa	atings and paints		
Waste Class: Waste Class			145 L Wastes from the use	e of pigments, coa	atings and paints		
Waste Class: Waste Class			212 I Aliphatic solvents ar	nd residues			
Waste Class: Waste Class			252 L Waste crankcase oi	ls and lubricants			
Waste Class: Waste Class			265 L Graphic arts wastes				

Мар Кеу	Number Records		Elev/Diff) (m)	Site		DB
<u>10</u>	11 of 13	E/51.7	177.0 / 13.34	9515 Montrose Rd Niagara Falls ON L05	51K0	EHS
Order No: Status: Report Type: Report Date: Date Received Previous Site Lot/Building S Additional Inf	d: Name: Size:	20161115135 C Site Report 16-NOV-16 15-NOV-16 Unknown NA		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	NIAGARA FALLS ON .001 -79.125048 43.039299	
<u>10</u>	12 of 13	E/51.7	177.0 / 13.34	ARROW GAMES COI 9515 MONTROSE RO PORT ROBINSON ON	AD UNIT 2	GEN
Generator No Status: Approval Yea Contam. Facilit MHSW Facilit SIC Code: SIC Descriptio	rs: lity: y:	ON6873775 Registered As of Jul 2020		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>						
Waste Class: Waste Class I		145 L Wastes from the	use of pigments, coa	atings and paints		
Waste Class: Waste Class I		212 I Aliphatic solvents	and residues			
Waste Class: Waste Class I	Desc:	145 H Wastes from the	use of pigments, coa	atings and paints		
Waste Class: Waste Class I		252 L Waste crankcase	oils and lubricants			
Waste Class: Waste Class I		265 L Graphic arts was	tes			
<u>10</u>	13 of 13	E/51.7	177.0 / 13.34	ARROW GAMES COI 9515 MONTROSE RO PORT ROBINSON ON	AD UNIT 2	GEN
Generator No Status: Approval Yea Contam. Facilit MHSW Facilit SIC Code: SIC Descriptio	rs: lity: y:	ON6873775 Registered As of Jan 2021		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>						
Waste Class: Waste Class I		145 L Wastes from the	use of pigments, coa	atings and paints		
Waste Class: Waste Class I		212 I Aliphatic solvents	and residues			

Map Key	Number o Records	f Direction/ Distance (m	Elev/Diff ı) (m)	Site	I
Waste Class:		145 H			
Vaste Class I	Desc:	Wastes from the	use of pigments, co	atings and paints	
Naste Class:		252 L			
Naste Class. Naste Class I		-	e oils and lubricants		
Naste Class:		265 L			
Naste Class I	Desc:	Graphic arts was	ites		
<u>11</u>	1 of 1	SW/56.8	177.8 / 14.19	lot 4 con 1 ON	ми
Nell ID:	6	600625		Data Entry Status:	
Construction	Date:			Data Src:	1
Primary Wate		ivestock		Date Received:	7/19/1956
Sec. Water Us		omestic		Selected Flag:	True
Final Well Sta	atus: V	Vater Supply		Abandonment Rec:	E 40E
Nater Type:	ial:			Contractor: Form Version:	5425 1
Casing Materi Audit No:	<i>iul.</i>			Owner:	1
Tag:				Street Name:	
Construction	Method:			County:	NIAGARA
Elevation (m):				Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reli	-			Site Info:	
Depth to Bedi	rock:			Lot:	004
<i>Nell Depth:</i> Overburden/E	Bedrock			Concession: Concession Name:	01 CON
Pump Rate:	Jeurock.			Easting NAD83:	CON
Static Water L	Level:			Northing NAD83:	
Flowing (Y/N)				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:	:				
PDF URL (Maj	p):	https://d2khazk8	e83rdv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/660\6600625.pdf
Additional De	etail(s) (Map)				
Well Complete	ed Date:	1956/05/14			
Year Complet	ted:	1956			
Depth (m):		17.6784			
Latitude:		43.03120744671			
Longitude: Path:		-79.1411385713 660\6600625.pd			
Bore Hole Infe	ormation				
Bore Hole ID:		0460359		Elevation:	178.962265
DP2BR:		7.00		Elevrc:	47
Spatial Status Code OB:				Zone: East83:	17 651437.90
Code OB: Code OB Des	r ac: B	Bedrock		North83:	4765957.00
Open Hole:	D			Org CS:	
Cluster Kind:				UTMRC:	9
Date Complet	t ed: 1	4-May-1956 00:00:00		UTMRC Desc:	unknown UTM
Remarks:				Location Method:	p9
Elevrc Desc:	man Data				
Location Sou					
Improvomant					
	Location Me				
Improvement Improvement Source Revisi					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID	2	932589451			
Layer:		3			
Color:		3			
General Cold	or:	BLUE			
Mat1:		05			
Most Commo	on Material:	CLAY			
Mat2:					
Mat2 Desc: Mat3:					
Mats. Mats Desc:					
Formation To	n Denth	17.0			
Formation E	nd Depth:	47.0			
	nd Depth UOM:	ft			
Overburden	and Bedrock				
Materials Inte					
Formation ID	:	932589449			
Layer:		1			
Color:					
General Cold	or:				
Mat1:		02			
Most Commo	on Material:	TOPSOIL			
Mat2:					
Mat2 Desc: Mat3:					
Mats. Mats Desc:					
Formation To	on Denth:	0.0			
Formation E	nd Depth:	2.0			
	nd Depth UOM:	ft			
	and Bedrock				
Materials Inte	ervai				
Formation ID	:	932589452			
Layer:		4			
Color:		6			
General Colo	or:	BROWN			
Mat1:		15			
Most Commo	on Material:	LIMESTONE			
Mat2:					
Mat2 Desc: Mat3:					
Mats. Mats Desc:					
Formation To	n Denth	47.0			
Formation E	nd Depth:	58.0			
Formation E	nd Depth UOM:	ft			
	and Bedrock				
Materials Inte	<u>zi Vdi</u>				
Formation ID	:	932589450			
Layer:		2			
Color:		6			
General Cold	or:	BROWN			
Mat1:		05			
Most Commo	on Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation To Formation Er	op Depth: od Dopthy	2.0 17.0			
	nd Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	966600625			
	struction Code:	1			
Method Cons Other Method	struction: d Construction:	Cable Tool			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		11008929			
Casing No:		1			
Comment: Alt Name:					
<u>Construction</u>	Record - Casing				
Casing ID:		930747656			
Layer: Material:		2 4			
Open Hole or	r Material:	OPEN HOLE			
Depth From:		0			
Depth To:		58			
Casing Diam		6 iach			
Casing Diam Casing Depth		inch ft			
Construction	Record - Casing				
Casing ID:		930747655			
Layer:		1			
Material:	Motorial	1 STEEL			
Open Hole or Depth From:		STEEL			
Depth To:		48			
Casing Diam		6			
Casing Diam Casing Depth		inch ft			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID		996600625			
Pump Set At:	;	10.0			
Static Level:	fter Pumping:	19.0 24.0			
	ed Pump Depth:	24.0			
Pumping Rat		8.0			
Flowing Rate);				
	ed Pump Rate:	<i>f</i> 4			
Levels UOM: Rate UOM:		ft GPM			
	After Test Code:	2			
Water State A	After Test:	CLOUDY			
Pumping Tes		1			
Pumping Dur		0 30			
Pumping Dur Flowing:		30 No			

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found De Water Found De		933947893 1 1 FRESH 56.0 ft			
<u>12</u> 1	of 1	SSE/62.3	176.8 / 13.19	lot 2 ON	WWIS
Well ID: Construction D Primary Water U Sec. Water Use. Final Well Statu Water Type: Casing Material Audit No: Tag: Construction M Elevation Relial Depth to Bedroo Well Depth: Overburden/Bee Pump Rate: Static Water Le Flowing (Y/N): Flow Rate: Clear/Cloudy:	Use: Domes : 0 us: Water : !: lethod: bility: ck: drock:	tic		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 11/21/1960 True 4720 1 NIAGARA NIAGARA FALLS CITY (CROWLAND) 002 BF
PDF URL (Map)	:	https://d2khazk8e83	Brdv.cloudfront.ne	t/moe_mapping/downloads	s/2Water/Wells_pdfs/660\6600616.pdf
Additional Deta	<u>il(s) (Map)</u>				
Well Completed Year Completed Depth (m): Latitude: Longitude: Path:		1960/11/16 1960 20.4216 43.031952009658 -79.1321188207846 660\6600616.pdf	6		
Bore Hole Infor	mation				
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole:	104603 62.00 r Bedroc			Elevation: Elevrc: Zone: East83: North83: Org CS:	177.788757 17 652170.90 4766056.00
Cluster Kind: Date Completed Remarks: Elevrc Desc: Location Sourc Improvement Lo Improvement Lo Source Revision Supplier Comm	e Date: ocation Source: ocation Method: n Comment:	-1960 00:00:00		UTMRC: UTMRC Desc: Location Method:	5 margin of error : 100 m - 300 m p5

Overburden and Bedrock. Materials Interval Color: Everse: Materials Interval Pormation Top Depth: Addition In Dimension In Depth: Parmation In Dimension In Depth: Scolor: Scolor: Materials Interval Pormation In Dimension In Dimensi	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	 DB
Layer: 2 General Color: Hat1: 11 Most Common Material: GRAVEL Mat2 Bese: Mat2 Bese: Mat3 Dese: Formation Top Dept1: 40.0 Formation I Dept1: 50.0 Formation I Dept1: 90.0 Formation I Dept1: 10 Source Layer: 5 Most Color: Mat2 Dese: Mat2 Dese: Mat3 Dese: Formation T Dept1: 0.0 Formation T Dept1: 0.						
Color: Mat1:IMat2:IRAVELMat2:RAVELMat2:RAVELMat3:RAVELMat3:RAVELMat3:RAVELMat3:RAVELMat3:RAVELFormation End Depth:62.0Formation End Depth:932589412Layer:3Color:General Color:Mat3:IMAT2Mat3:IMAT2Solor:Solor:General Color:Mat2:Mat2:Solor:Mat2:Solor:Mat2:Solor:General Color:Solor:Mat2:Solor:Mat2:Solor:Mat2:Solor:Mat2:Solor:Mat2:Solor:Mat2:Solor:Mat3:Solor:Mat3:Solor:Mat2:Solor:Mat3:Solor:Mat	Formation ID):	932589411			
General Color: 11 Mat: Coramon Material: CRAVEL Mat2 Desc: Mat2 Desc: Mat3 Desc: Formation Top Depth: 49.0 Formation End Depth: 62.0 Formation End Depth: 62.0 Formation End Depth: 932589412 Layer: 3 Coverburden and Bedrock Matkaidal Interxal Formation ID: 932589412 Layer: 3 Coverburden Color: 15 Mat3 Desc: Formation Top Depth: 62.0 Formation End Depth: 67.0 Formation End Depth: 7 Mat2 Desc: Mat2 Desc: Mat			2			
Marti: 11 Most Common Material: GRAVEL Marti: GRAVEL Marti: GRAVEL Marti: GRAVEL Marti: GRAVEL Marti: GRAVEL Marti: Graviantion Top Depth: 62.0 Formation Top Depth: 62.0 Formation End Depth UOM: formation ID: 932599412 Layer: 3 Color: General Color: Mart: 15 Most Common Material: LiMESTONE Mart: 15 Most Common Material: LiMESTONE Mart: 67.0 Formation End Depth: 67.0 Formation End D) <i>r</i> ·				
Matz Session Matz Dess: 40.0 Formation Top Depth: 62.0 Formation End Depth: 62.0 Formation End Depth: 932589412 Layer: 3 Color: 3 General Color: Hestone Matz Dess: Matz Dess: Matz 10MESTONE Matz Dess: Session			11			
Mark Desc: 49.0 Formation Top Depth: 82.0 Formation End Depth UOM: 1 Overburden and Bedrock 3 Materials Interval 32589412 Layer: 3 Color: 3 General Color: 40.0 Mart: ILMESTONE Materials Interval 15 Most Common Material: ILMESTONE Materials Interval 5 Most Common Material: ILMESTONE Materials Interval 5.0 Most Common Material: ILMESTONE Materials Interval 5.0 Most Common Material: ILMESTONE Materials Interval 57.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation End Depth UOM: 1 Overburden and Bedrock Materials Interval Formation End Depth UOM: 1 Overburden and Bedrock Materials Interval Formation ID: 932589410 Layer: 1 Golor: 3 General Color: BLUE		on Material:	GRAVEL			
Mata: Formation Top Depth: 40.0 Formation Top Depth: 40.0 Formation End Depth: 40.0 Formation End Depth: 10.0 Overburden and Bedrock Materials Interval Overburden and Bedrock Materials Interval Color: 3 Color: 3 Color: 4 Mata: Beneral Color: Mata: 15 Mata: 15 Mata: 15 Mata: 15 Mata: 15 Mata: 15 Mata: 15 Mata: 20 Formation Material: LIMESTONE Mata: 20 Mata: 20 Formation End Depth: 62.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation Dapth UOM: t Mata: 15 Mata: 15						
Formation Top Depth:49.0Formation End Depth:62.0Formation End Depth:62.0Formation ID:922589412Layer:3Color:3General Color:*********************************						
Formation End Depth UOM: tt Formation End Depth UOM: tt Overburden and Bedrock. sussessessessessessessessessessessessess	Mat3 Desc:					
Formation End Depth UOM: ft Overburden and Bedrock. 932589412 Layer: 3 Color: 3 General Color:	Formation To	op Depth:				
Overburden and Bedrock. Materials Interval Formation ID: 932589412 Layer: 3 Color: 3 General Color: IIMESTONE Mat1: 15 Mat2: Mat2: Mat2: IIMESTONE Mat2: Formation Top Depth: Formation End Depth: 62.0 General Color: 1 Color: 3 General Color: BLUE Mat2: 05 Most Common Material: CLAY Mat2: 0.0 Formation End Depth: 0.0 Formation End Depth:<	Formation E	na Deptn: nd Depth UOM:				
Materials Interval Formation ID: 932589412 Layor: 3 Color:		ia Dopai Com				
Formation ID: 932589412 Layer: 3 Color: Matt: 15 Matt: 15 Matt: 15 Matt: LIMESTONE Matt: Matta: Matta: Matta: Matta: Matta: Formation End Depth: 62.0 Formation End Depth: 0.0 Formation Material: CLAY Matta:						
Layer: 3 Color: General Color: Matt: 15 Matt: LIMESTONE Matz LIMESTONE Matz Matz Verburden and Bedrock Matz Materials Interval 932589410 Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Mat2: Mat3 Mat2: Mat3 Mat3: Mat3 Mat4: 0.0 Formation End Depth: 49.0	<u>Materials Inte</u>	ervai				
Color: general Color: Matt: 15 Most Common Material: LIMESTONE Mat2: Mat3 Mat3 Desc: Mat3 Mat3: Formation End Depth: 67.0 Formation Ind: 932589410 Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Most Common Material: CLAY Mat2: CLAY Mat2: CLAY Mat2: 0.0 Formation Top Depth: 0.0 Formation Top Depth: 0.0 Formation End Depth: 49.0 Formation End Depth: 1 Use Mat3):				
General Color: 15 Mat1: 15 Mat2: LIMESTONE Mat2: Mat3: Mat3: Mat3: Mat3: Formation Top Depth: 62.0 Formation Top Depth: 67.0 Formation End Depth UOM: t Verburden and Bedorock ft Atterials Interval Station Formation End Depth UOM: t Formation End Depth UOM: t Formation End Depth UOM: t Seneral Color: 3 General Color: BLUE Mat1: 05 Most Common Material: CLAY Mat2: Mat3 Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat4: 05 Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Mat3: Formation End Depth: <			3			
Mati:15Most Common Material:LIMESTONEMatz:MatSiMat3:Mat3:Mat3:G2.0Formation Top Depth:67.0Formation End Depth:67.0Formation Ind BedrockMatrials IntervalMatrials Interval932589410Formation ID:932589410Layer:1Color:3General Color:BLUEMat2:Mat2:Mat2:CLAYMat2:CLAYMat2:O.0Formation Top Depth:0.0Formation Top Depth:966600616Method Construction D:966600616Method Construction Code:1Method Construction Code:1Method Construction Code:1Method Construction Code:1Method Construction Code:1Method Construction Code:1		or:				
Mat2: Mat3: Mat3: Mat3: Mat3: 62.0 Formation Top Depth: 67.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation Income and Bedrock Materials Interval Formation ID: 932589410 Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Mat2: 05 Mat2: 05 Mat3: 05 Mat2: 05 Mat2: 05 Mat3: 05 Mat2: 05 Mat3: 05 Mat3: 05 Formation Top Depth: 0.0 Formation Tend Depth: 49.0 Formation End Depth UOM: t <						
Ma12 Desc: Ma33 Formation Top Depth: 62.0 Formation End Depth: 67.0 Formation End Depth: 67.0 Formation End Depth UOM: ft Overburden and Bedrock Materials Interval Formation ID: 932589410 Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Most Common Material: CLAY Mat2 S Mat3: S Method Construction & Well. S Method Construction Code:		on Material:	LIMESTONE			
Mai3:						
Formation Top Depth: 62.0 Formation End Depth: 67.0 Formation End Depth UOM: tt Overburden and Bedrock Materials Interval						
Formation End Depth: 67.0 Formation End Depth UOM: ft Overburden and Bedrock.						
Formation End Depth UOM: ft Overburden and Bedrock Materials Interval 932589410 Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Most Common Material: CLAY Mat2: CLAY Mat3 Desc: Formation End Depth: Formation End Depth: 0.0 Formation End Depth: 49.0 Formation End Depth: tt Method Construction ID: 966600616 Method Construction Code: 1 Method Construction: Cable Tool	Formation To	op Depth:				
Materials IntervalFormation ID:932589410Layer:1Color:3General Color:BLUEMat1:05Most Common Material:CLAYMat2:						
Materials IntervalFormation ID:932589410Layer:1Color:3General Color:BLUEMat1:05Most Common Material:CLAYMat2:						
Layer: 1 Color: 3 General Color: BLUE Mat1: 05 Most Common Material: CLAY Mat2: The sec of the						
Layer:1Color:3General Color:BLUEMat1:05Most Common Material:CLAYMat2:***********************************	Formation ID);	932589410			
General Color:BLUEMat1:05Most Common Material:CLAYMat2:	Layer:		1			
Mat1:05Most Common Material:CLAYMat2:CLAYMat2 Desc:Sec:Mat3 Desc:Sec:Formation Top Depth:0.0Formation End Depth:49.0Formation End Depth:49.0Formation End Depth:9.0Method of Construction & Well UseSecMethod Construction ID:966600616Method Construction Code:1Method Construction:Cable Tool		. .				
Most Common Material:CLAYMat2:Stat2Mat3:Stat2Mat3:Stat2Mat3:Stat2Formation Top Depth:0.0Formation End Depth:49.0Formation End Depth UOM:ftMethod of Construction & WellStat2Method Construction ID:966600616Method Construction Code:1Method Construction:Cable Tool						
Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: 0.0 Formation End Depth: 49.0 Formation End Depth UOM: ft Method of Construction & Well Use Method Construction ID: 966600616 Method Construction Code: 1 Method Construction: Cable Tool		on Material:				
Mat3: Mat3 Desc: Formation Top Depth: 0.0 Formation End Depth: 49.0 Formation End Depth UOM: ft Method of Construction & Well Use Method Construction ID: 966600616 Method Construction Code: 1 Method Construction: Cable Tool						
Mat3 Desc: 0.0 Formation Top Depth: 0.0 Formation End Depth: 49.0 Formation End Depth UOM: ft Method of Construction & Well Vell Use 966600616 Method Construction Code: 1 Method Construction: Cable Tool						
Formation Top Depth: 0.0 Formation End Depth: 49.0 Formation End Depth UOM: tt Method of Construction & Well						
Formation End Depth UOM: ft Method of Construction & Well	Formation To					
Method of Construction & Well Use Method Construction ID: 966600616 Method Construction Code: 1 Method Construction: Cable Tool	Formation E	nd Depth:				
Use Method Construction ID: 966600616 Method Construction Code: 1 Method Construction: Cable Tool	Formation E	nd Depth UOM:	ft			
Method Construction Code: 1 Method Construction: Cable Tool		onstruction & Well	_			
Method Construction Code: 1 Method Construction: Cable Tool	Mothod Con	struction ID.	066600616			
Method Construction: Cable Tool						
Other Method Construction:	Method Cons	struction:				
	Other Metho	d Construction:				

Pipe Information

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		D
Pipe ID: Casing No: Comment: Nt Name:		11008920 1				
Construction	Record - Casing					
asing ID:		930747640				
ayer:		2				
laterial:		4				
Open Hole of	r Material:	OPEN HOLE				
Pepth From: Depth To:		67				
Casing Diam	eter:	6				
asing Diam		inch				
Casing Dept		ft				
Construction	Record - Casing					
asing ID:		930747639				
ayer:		1				
laterial:		1				
open Hole o	r Material:	STEEL				
Pepth From:		62				
Depth To: Casing Diam	otor:	6				
Casing Diam		inch				
Casing Dept		ft				
Results of W	ell Yield Testing					
Pump Test IL Pump Set At		996600616				
static Level:		28.0				
	fter Pumping:	28.0				
	ed Pump Depth:	28.0				
Pumping Rat		10.0				
lowing Rate	ed Pump Rate:	10.0				
evels UOM:		ft				
Rate UOM:		GPM				
	After Test Code:	1				
Vater State /		CLEAR				
Pumping Tes		1				
Pumping Du		1				
Pumping Du	ration MIN:	0				
lowing:		No				
Vater Details	8					
Vater ID:		933947884				
ayer:		1				
(ind Code: (ind:		1 FRESH				
Vater Found	Depth:	67.0				
	Depth UOM:	ft				
<u>13</u>	1 of 1	SSW/63.3	176.8/13.19	lot 3 ON		ww
Vell ID: Construction	66006 Date:	518		Data Entry Status: Data Src:	1	
2.1.50 46000	- 410					
	erisinfo.com En	, in a second at Dials late		_		Order No: 2108110046

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Primary Water L	Jse: Livestoc			ate Received:	3/23/1960
Sec. Water Use:				elected Flag:	True
Final Well Statu	s: Water S	upply		bandonment Rec:	
Water Type:			-	ontractor:	4720
Casing Material	:			orm Version:	1
Audit No:			-	wner:	
Tag:				treet Name:	
Construction Me	ethod:			ounty:	NIAGARA
Elevation (m):				lunicipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliat				ite Info:	
Depth to Bedroo	ск:			ot:	003
Well Depth:	1		-	oncession:	DE
Overburden/Bed	drock:			oncession Name:	BF
Pump Rate:	l.			asting NAD83:	
Static Water Lev	/el:			orthing NAD83:	
Flowing (Y/N):				one: TM Deliebility:	
Flow Rate: Clear/Cloudy:			0	TM Reliability:	
PDF URL (Map):		https://d2khazk8e83	dv.cloudfront.net/mo	e_mapping/downloads	s/2Water/Wells_pdfs/660\6600618.pdf
Additional Detai	il(s) (Map)				
Well Completed		1960/01/22			
Year Completed	l:	1960			
Depth (m):		21.336			
Latitude:		43.0322752193854			
Longitude:		-79.1375835101189			
Path:		660\6600618.pdf			
Bore Hole Infori	<u>mation</u>				
Bore Hole ID:	1046035	52		levation:	177.681243
DP2BR:	65.00			levrc:	
Spatial Status:				one:	17
Code OB:	r			ast83:	651724.90
Code OB Desc:	Bedrock			orth83:	4766082.00
Open Hole:				rg CS:	_
Cluster Kind:	00 1			TMRC:	5
Date Completed	22-Jan-1	1960 00:00:00	-	TMRC Desc:	margin of error : 100 m - 300 m
Remarks:			L	ocation Method:	p5
Elevrc Desc: Location Source	Data				
Improvomont I a					
	cation method:				
Improvement Lo	Commont.				
Improvement Lo Source Revision					
Improvement Lo Source Revision					
Improvement Lo Improvement Lo Source Revision Supplier Comm Overburden and	ent: I Bedrock				
Improvement Lo Source Revision Supplier Comm Overburden and	ent: I Bedrock				
mprovement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Interva</u> Formation ID:	ent: I Bedrock	932589421			
mprovement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer:	ent: I Bedrock	3			
mprovement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer: Color:	ent: I Bedrock	3 3			
Improvement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Intervi</u> Formation ID: Layer: Color: General Color:	ent: I Bedrock	3 3 BLUE			
Improvement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Intervi</u> Formation ID: Layer: Color: General Color: Mat1:	ent: <u>I Bedrock</u> <u>al</u>	3 3 BLUE 05			
Improvement Lo Source Revision Supplier Common <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer: Color: General Color: Mat1: Most Common I	ent: <u>I Bedrock</u> <u>al</u>	3 3 BLUE			
Improvement Lo Source Revision Supplier Common <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer: Color: Color: General Color: Mat1: Most Common I Mat2:	ent: <u>I Bedrock</u> <u>al</u>	3 3 BLUE 05			
Diprovement Lo Source Revision Supplier Common <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer: Color: Color: General Color: Mat1: Most Common I Mat2: Mat2 Desc:	ent: <u>I Bedrock</u> <u>al</u>	3 3 BLUE 05			
Improvement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Interva</u> Formation ID: Layer: Color: General Color: Mat1: Most Common I Mat2: Mat2 Desc: Mat3:	ent: <u>I Bedrock</u> <u>al</u>	3 3 BLUE 05			
Display the second seco	ent: <u>I Bedrock</u> <u>al</u> Material:	3 3 BLUE 05 CLAY			
Improvement Lo Source Revision Supplier Comm <u>Overburden and</u> <u>Materials Intervi</u> Formation ID: Layer: Color: General Color:	ent: <u>I Bedrock</u> <u>al</u> Material: Depth:	3 3 BLUE 05			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID Layer:	<u>):</u>	932589422 4			
Color:		7			
General Colo	or:				
Mat1:		15			
Most Commo Mat2: Mat2 Desc: Mat3:	on Materiai:	LIMESTONE			
Mat3 Desc: Formation Te	on Denth:	65.0			
Formation E		70.0			
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID) <u>;</u>	932589419			
Layer:		1			
Color:		7			
General Colo Mat1:	Dr:	RED 05			
Most Commo	on Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3: Mat3 Desc:					
Formation To	op Depth:	0.0			
Formation E	nd Depth:	24.0			
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID):	932589420			
Layer:		2			
Color: General Colo	~r·				
Mat1:	<i>J.</i>	14			
Most Comme	on Material:	HARDPAN			
Mat2: Mat2 Desc:					
Mat2 Desc. Mat3:					
Mat3 Desc:					
Formation T		24.0			
Formation E Formation E	nd Depth: nd Depth UOM:	40.0 ft			
	onstruction & Well				
<u>Use</u>					
Method Cons		966600618			
	struction Code:	1 Cable Teel			
Method Cons Other Metho	struction: d Construction:	Cable Tool			

Pipe Information

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID: Casing No: Comment: Alt Name:		11008922 1			
<u>Construction</u>	<u>Record - Casing</u>				
Casing ID:		930747642			
Layer:		1			
Material:		1			
Open Hole or	Material:	STEEL			
Depth From:					
Depth To:		65			
Casing Diame		5 iach			
Casing Diame Casing Depth		inch ft			
Construction	<u>Record - Casing</u>				
Casing ID:		930747643			
Layer:		2			
Material:		4			
Open Hole or	Material:	OPEN HOLE			
Depth From:					
Depth To:		70 5			
Casing Diame Casing Diame		5 inch			
Casing Depth		ft			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID.	:	996600618			
Pump Set At:					
Static Level:		32.0			
Final Level Af		38.0			
	d Pump Depth:	38.0			
Pumping Rate Flowing Rate:		10.0			
	d Pump Rate:	10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
	fter Test Code:	1			
Water State A		CLEAR			
Pumping Test		1			
Pumping Dura		1			
Pumping Dura Flowing:		0 No			
i iowiliy.					

Water Details

72

Water ID: Layer: Kind Code Kind: Water Fou Water Fou		933947886 1 FRESH 70.0 ft			
<u>14</u>	1 of 1	E/90.1	172.5 / 8.81	lot 10 ON	WWIS
Well ID:	6602	2673		Data Entry Status:	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Construction Primary Water Sec. Water Us Final Well Sta	r Use: Dom se: 0	nestic er Supply		Data Src: Date Received: Selected Flag: Abandonment Rec:	1 8/8/1972 True
Water Type: Casing Materi Audit No:				Contractor: Form Version: Owner:	3608 1
Tag: Construction Elevation (m): Elevation Reli				Street Name: County: Municipality: Site Info:	NIAGARA NIAGARA FALLS CITY (WILLOUGHBY)
Depth to Bedr Well Depth: Overburden/B Pump Rate:	edrock:			Lot: Concession: Concession Name: Easting NAD83:	010 BF WR
Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy:	:			Northing NAD83: Zone: UTM Reliability:	
PDF URL (Maj	o):	https://d2khazk8e8	3rdv.cloudfront.n	et/moe_mapping/downloads	s/2Water/Wells_pdfs/660\6602673.pdf
Additional De	tail(s) (Map)				
Well Complete Year Complete Depth (m): Latitude: Longitude: Path:		1972/07/17 1972 24.9936 43.0400517727672 -79.122494037178 660\6602673.pdf			
Bore Hole Info	ormation				
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Deso Open Hole: Cluster Kind: Date Complete	79.0 r c: Bedi			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	175.578491 17 652934.90 4766973.00 4 margin of error : 30 m - 100 m
Remarks: Elevrc Desc: Location Sour Improvement Improvement	rce Date: Location Sourc Location Metho ion Comment:	e:		Location Method:	p4
<u>Overburden a</u>	nd Bedrock				
<u>Materials Inter</u> Formation ID:		932595886			
Layer: Color: General Color		3 2 GREY			
Mat1: Most Common Mat2: Mat2 Desc: Mat3:		05 CLAY 11 GRAVEL			
Mat3 Desc: Formation Top	p Depth:	77.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation En Formation En	d Depth: d Depth UOM:	79.0 ft			
Overburden a Materials Inte					
Formation ID	·	932595884			
Layer:		1			
Color: General Colo	r .	6 BROWN			
Mat1:	-	05			
Most Commo Mat2:	n Material:	CLAY			
Mat2 Desc:					
Mat3:					
Mat3 Desc: Formation To	o Depth:	0.0			
Formation En	d Depth:	15.0			
Formation En	d Depth UOM:	ft			
Overburden a Materials Inte					
Formation ID		932595885			
Layer:		2			
Color: General Colo	r:	7 RED			
Mat1:		05			
Most Commo Mat2:	n Material:	CLAY 06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc: Formation To	o Depth:	15.0			
Formation En		77.0 ft			
Overburden a Materials Inte					
Formation ID		932595887			
Layer:		4			
Color: General Colo	r:	2 GREY			
Mat1:		15			
Most Commo Mat2:	n Material:	LIMESTONE			
Mat2 Desc:					
Mat3:					
Mat3 Desc: Formation To	n Denth:	79.0			
Formation En		82.0 ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons	truction ID:	966602673			
Method Cons	truction Code:	1			
Method Cons	truction: I Construction:	Cable Tool			

Pipe Dr. 11010970 Costing No. 1 Construction Record - Casing 0 Casing No. 2 An Nume: 0 Construction Record - Casing 0 Casing No. 2 Material: 4 Open Hole or Material: 0 Depth To: 80 Depth To: 82 Casing Domoter UOM: ind Casing Domoter	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Jon Comment: AR Name: Construction Record - Casing Casing JD: 930751313 Layer: 2 Material: 0 Depth For: 2 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 1 Casing Diameter: 0 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 6 Casing Diameter: 7 Casing Depth UOM: 1 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 7 Casing Diamet	Pipe Informa	tion				
Casing DD: 930751313 Layer: 2 Open Hole or Material: 0 Depth From: 2 Casing Diameter: 0 Casing Diameter: 10 Casing Diameter: 10 Casing Diameter: 10 Casing Diameter: 11 Casing Diameter: 1 Casing Diameter: 6 Casing Diameter: 10 Resoults of Well Yield Testing 9300 Pump Star Diameter: 10.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Levels UOM: 6 Recommended Pump Rate: 10.0 Levels UOM: 6 Pumping Rate: 2 Pum	Casing No: Comment:					
Layer 2 2 Open Hole or Material: OPEN HOLE Depth From: Bepth Tro:: 82 Casing Diameter: Casing Diameter: Casing Diameter: UOM: nch Casing Diameter: UOM: nch Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Casing Diameter: 1 Diameter: 1 Casing Diameter: 1 Diameter: 2 Diameter: 2 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 2 Casing Di	<u>Construction</u>	<u>n Record - Casing</u>				
Material: 4 Open Holo Material: OPEN HOLE Depth From: B2 Casing Diameter: B30751312 Layer: 1 Material: 1 Open Holo of Material: STEEL Depth Tom: B2 Casing Diameter: 6 Casing Diameter: 79 Casing Diameter: 10 Casing Diameter: 730 Pump Set JD: 996602673 Pump Set JD: 996602673 Pump Set JD: 99602673 Pump Set JD: 75.0 Pumping Rate: 10.0 Levels: 10.0 Levels UOM: ft Rat						
Open Iron: DPEN HOLE Depth Fro:: 82 Depth Fro:: 82 Casing Diameter: Casing Diameter: Casing Diameter: UOM:: inch Casing Diameter: UOM:: inch Casing Diameter: 830751312 Layer: 1 Open Hom:: 1 Open Hole or Material: 3TEEL Depth Fro:: 79 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 79 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 70 Casing Diameter: 70 Casing Diameter: 6 Casing Diameter: 70 Casing	•					
Depth To: 82 Casing Diameter: Casing Diameter: UOM: inch Casing Diameter UOM: inch Casing Diameter UOM: it Construction Record - Casing Casing Diameter UOM: it Material: 1 Depth To: 930751312 Layer: 1 Material: 1 Upen Hole of Material: STEEL Depth Trom: 7 Depth To: 73 Casing Diameter UOM: inch Casing Diameter UDM: inch Casing D		r Material:				
Casing Diameter: Casing Diameter: UOM: inch Casing Diameter: UOM: inch Casing Diameter: 0001: 0000000000000000000000000000000						
Casing Diameter UOM: inch Casing Diameter UOM: it Construction Record - Casing Casing Di: 930751312 Layer: 1 Material: 1 Construction Record Material: STEEL Depth from:		otor-	82			
Casing Depth UOM: ft Construction Record - Casing Casing ID: 930751312 Layer: 1 Open Hole or Material: 3 Depth For: 7 Depth For: 7 Depth For: 7 Part Depth For: 7 State Layer: 7 State Layer: 23.0 From Part: 23.0 From Part: 10.0 Layer: 10.0			inch			
Casing ID: 930751312 Layer: 1 Material: 1 Open Hole or Material: STEEL Depth Fro: 79 Casing Diameter: 6 Casing Diameter: 79 Casing Diameter: 70 Casing Diameter: 70 Casing Diameter: 79 Casing Casing Diameter: 70 Casing Diam			ft			
Layer: 1 J Amerial: 1 J Open Hole or Material: STEEL Depth For: 79 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM: t Results of Well Yield Testing Pump Test D: 996602673 Pump Set At: 23.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Pumping Rate: 10.0 Pumping Rate: 10.0 Pumping Rate: 10.0 Pumping Rate: Code: 1 Recommended Pump Rate: 10.0 Pumping Unstein MIN: 2 Pump Test Dc: 994341801 Test Jpe: Recovery Pump Test Detail ID: 934341801 Test Level: 23.0 Test Test Detail ID: 93431801 Test Type: Recovery Pump Test Detail ID: 93432156 Test Level: 23.0 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery	<u>Construction</u>	n Record - Casing				
Material: 1 Depth Form: Depth To: 79 Casing Diameter: 6 Casing Diameter: 7 Pump Test ID: 996602673 Pump Set A: Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Levels UOM: 1t Recommended Pump Cate: 10.0 Levels UOM: 1t Recommended Pump Cate: 10.0 Levels UOM: 1t Casing Diameter: CLEAR Pumping Test Method: 2 Pumping Test Method: 2 Pumping Test Method: 2 Pumping Duration MiN: 0 Flowing: No Casing Diameter: 15 CLEAR Pumping Level VOM: 1t Casing Diameter: 15 CLEAR Pumping Test Method: 2 Pumping Test Method: 2 Pumping Test Method: 2 Pumping Test Method: 2 Pumping Duration MiN: 0 Flowing: No Casing Diameter: 15 CLEAR Pumping Duration MiN: 1 Casing Diameter: 15 CLEAR Pumping Test Method: 2 Pumping Duration MiN: 1 Casing Ca						
Open Hole or Material: STEEL Depth For: 79 Casing Diameter UOM: inch Casing Diameter UOM: inch Casing Diameter UOM: it Results of Well Yield Testing Pump Test ID: 996602673 Pump Test ID: 996602673 Final Level Atter Pumping: 45.0 Recommended Pump Depth: 70.0 Final Level Atter Pumping: 45.0 Recommended Pump Depth: 10.0 Flowing Rate: 10.0 Flowing Rate: 10.0 Flowing Rate: 10.0 Pumping: 50.0 Pumping Rate: 10.0 Recommended Pump Pate: 10.0 Recommended Pump Rate: 10.0 Rate UOM: ft Rate UOM: ft Rate UOM: ft Rate UOM: ft Pumping Duration HR: 2 Pumping Duration HIN: 0 Flowing: No Praw Down & Recovery State Level: Test Type: 23.0 Test Level UOM: t Test Level UOM: t Test Level UOM: t Test Level UOM: t Test Level UOM: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Depth From: Depth Tron: 79 Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM: t Results of Well Yleld Testing Pump Test ID: 99602673 Pump Set At: Static Level: 23.0 Final Level Atter Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: 10.0 Events UOM: tt Rate UOM: tf Rate UOM: GPM Water State After Test: CLEAR Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping State III: 934341801 Test Type: Recovery Pump Test Detail ID: 934341801 Test Level: 23.0 Test Level: 15 Test Level: 15		r Material·				
Caising Diameter: 6 Caising Diameter UOM: inch Casing Depth UOM: it Results of Well Yield Testing Pump Test JD: 996602673 Pump Set J: 23.0 Final Level Atter Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: 10.0 Flowing Rate: 10.0 Events UOM: ft Rate UOM: ft Rate UOM: GPM Water State After Test: CLEAR Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping State IID: 934341801 Test Type: Recovery Pump Test Detail ID: 934341801 Test Level: 23.0 Test Level: 23.0			OTELL			
Casing Diameter UOM: inch Casing Depth UOM: it Results of Well Yield Testing Pump Test ID: 996602673 Pump Set At: Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: 10.0 Levels UOM: it Recommended Pump Rate: 10.0 Levels UOM: it Recommended Pump Rate: 10.0 Levels UOM: it Water State After Test Code: 1 Water State After Test Code: 1 Water State After Test: CLEAR Pumping Duration NR: 2 Pumping Duration NR: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934341801 Test Level: 23.0 Test Level: it Draw Down & Recovery Pump Test Detail ID: 935128156 Test Cueve ID: 9351281						
Casing Depth UOM: t Results of Well Yield Testing Pump Test ID: 996602673 Pump Set At: Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: 10.0 Evels UOM: 6 ff Rate UOM: GPM Water State After Test: CLEAR Pumping Test Method: 2 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934341801 Test Type: Recovery Pump Test Detail ID: 934341801 Test Type: Recovery Pump Test Detail ID: 93128156 Test Level: 23.0 Test Level ID: 935128156 Recovery						
Pump Test ID: 996602673 Pump Set At: Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Ievels UOM: tit Recommended Pump Rate: 10.0 Levels UOM: tit Recommended Pump Rate: 10.0 Levels UOM: Comparison of the tit Recommended Pump Rate: 10.0 Levels UOM: tit Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping Duration HR: 2 Pumping Duration HR: 2 Pump Test Detail ID: 934341801 Test Level: 23.0 Test Level: 23.0 Test Level UOM: tit Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery						
Pump Set At: 23.0 Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: Totol Recommended Pump Rate: 10.0 Levels UOM: ft Rate UOM: GPM Water State After Test Code: 1 Water State After Test Code: 2 Pumping Test Method: 2 Pumping Duration HR: 2 Pumping Duration HR: 0 Flowing: No Draw Down & Recovery No Pump Test Detail ID: 934341801 Test Type: Recovery Test Level UOM: tt tt Draw Down & Recovery Prest Level: 23.0 Test Level UOM: tt Pump Test Detail ID: 935128156 Test Type: Recovery	<u>Results of W</u>	<u>'ell Yield Testing</u>				
Static Level: 23.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: 10.0 Eventmended Pump Rate: 10.0 Eventmended Pump Rate: 10.0 Levels UOM: ft Rate UOM: GPM Water State After Test: CLEAR Pumping Duration HR: 2 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934341801 Test Level: 23.0 Test Level UOM: tt Draw Down & Recovery 935128156 Test Type: Recovery			996602673			
Recommended Pump Depth: 75.0 Pumping Rate: 10.0 Flowing Rate: Image: The second se	Static Level:					
Pumping Rate: 10.0 Flowing Rate: 10.0 Recommended Pump Rate: 10.0 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 HR: 0 Flowing: No Draw Down & Recovery No Pump Test Detail ID: 934341801 Test Type: Recovery Pump Test Detail ID: 934321801 Test Type: Recovery Pump Test Detail ID: 934321801 Test Level: 23.0 Test Level: 23.0 Test Level: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery						
Flowing Rate: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
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: No Draw Down & Recovery No Pump Test Detail ID: 934341801 Test Duration: 15 Test Level: 23.0 Test Level UOM: ft Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery	Flowing Rate	e:				
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: No Draw Down & Recovery No Pumping Test Detail ID: 934341801 Test Type: Recovery Test Level: 23.0 Test Level: 23.0 Test Level UOM: t Pump Test Detail ID: 935128156 Test Type: Recovery						
Water State After Test: 1 Water State After Test: CLEAR Pumping Test Method: 2 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934341801 Test Type: Recovery Test Level: 23.0 Test Level: 23.0 Test Level UOM: tt Pump Test Detail ID: 935128156 Test Type: Recovery						
Pumping Test Method: 2 Pumping Duration HR: 2 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery No Pump Test Detail ID: 934341801 Test Type: Recovery Test Duration: 15 Test Level: 23.0 Test Level UOM: tt Draw Down & Recovery 935128156 Test Type: Recovery Recovery Recovery Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Test Type: Recovery	Water State		1			
Pumping Duration HR: 2 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery No Pump Test Detail ID: 934341801 Test Type: Recovery Test Type: Recovery Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Recovery Recovery						
Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery 0 Pump Test Detail ID: 934341801 Test Type: Recovery Test Type: Recovery Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery 935128156 Recovery Recovery Pump Test Detail ID: 935128156 Test Type: Pailon for more to Dialy information Convince						
Draw Down & Recovery Pump Test Detail ID: 934341801 Test Type: Recovery Test Duration: 15 Test Level: 23.0 Test Level UOM: tt Draw Down & Recovery 935128156 Test Type: 935128156 Test Type: Painteenent Disk Information Convince	Pumping Du		0			
Pump Test Detail ID: 934341801 Test Type: Recovery Test Duration: 15 Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 935128156 Test Type: Recovery Pump Test Detail ID: 935128156 Recovery Recovery	Flowing:		No			
Test Type: Recovery Test Duration: 15 Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery 935128156 Pump Test Detail ID: 935128156 Test Type: Recovery Order No: 24004400400	Draw Down	<u>& Recovery</u>				
Test Type: Recovery Test Duration: 15 Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery 935128156 Pump Test Detail ID: 935128156 Test Type: Recovery Order No: 24004400400	Pump Test D	etail ID:	934341801			
Test Level: 23.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 935128156 Test Type: Pacovery	Test Type:		•			
Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 935128156 Test Type: Recovery		n:				
Pump Test Detail ID: 935128156 Test Type: Recovery		ОМ:				
Test Type: Recovery	<u>Draw Down o</u>	<u>& Recovery</u>				
originfo com L Environmentel Dials laformation Convised		Detail ID:				
	76	erisinfo.com I En	vironmental Risk Info	ormation Service	95	Order No: 21081100468

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Test Duration Test Level: Test Level U		60 23.0 ft				
Draw Down &	& Recovery					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934609159 Recovery 30 23.0 ft				
Draw Down 8	& Recovery					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934863383 Recovery 45 23.0 ft				
Water Details	<u>S</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		933949992 1 3 SULPHUR 81.0 //: ft				
<u>15</u>	1 of 24	E/94.1	163.0 / -0.60	PRIVATE BUSINESS 9514 MONTROSE RD STORAGE TANK THOROLD CITY ON	R.R. #1 PORT ROBINSON	SPL
Ref No: Site No: Incident Dt: Year: Incident Even Contaminant Contaminant Contaminant Contaminant Contaminant Contaminant Environment Nature of Imp Receiving Ma Receiving Er MOE Resport Dt MOE ArvI MOE Resport Dt MOE ArvI MOE Reporte Dt Document Incident Rea Site Name: Site County/	nt: t Code: t Name: t Limit 1: it Freq 1: t UN No 1: t Impact: pact: edium: nv: nse: on Scn: ed Dt: t Closed: son:	109684 1/27/1995 VALVE/FITTING LEAK OR F POSSIBLE Soil contamination LAND 2/1/1995 DAMAGE BY MOVING EQU		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	18105 MCCR	
Site County/I Site Geo Ref Incident Sun Contaminant	Meth: nmary:	CROWN TRUCKIN	NG SERVICES- 13	6 L DIESEL TO CONCRET	E PAD,TANK LEAK,CLEANED UP	

Map Key Number of Records			Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>15</u>	2 of 24		E/94.1	163.0 / -0.60	MOTORWAYS TRANSPORT 9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	GEN
Generator N	o:	ON107	4100		PO Box No:	
Status: Approval Ye Contam. Fac		88			Country: Choice of Contact: Co Admin:	
MHSW Facil SIC Code: SIC Descript	ity:	4561	GEN. FREIGHT TF	RUCK.	Phone No Admin:	
<u>Detail(s)</u>						
Waste Class Waste Class			213 PETROLEUM DIS ⁻	TILLATES		
Waste Class Waste Class	-		252 WASTE OILS & LU	JBRICANTS		
<u>15</u>	3 of 24		E/94.1	163.0 / -0.60	MOTORWAYS TRANSPORT (OUT OF BUS.) 9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	GEN
Generator N			4100		PO Box No:	
	pproval Years: 89,90				Country: Choice of Contact:	
Contam. Fac MHSW Facil					Co Admin: Phone No Admin:	
SIC Code: SIC Descript	MHSW Facility: SIC Code: 4561 SIC Description:		GEN. FREIGHT TRUCK.			
<u>Detail(s)</u>						
Waste Class Waste Class			213 PETROLEUM DIS ⁻	TILLATES		
Waste Class Waste Class	-		252 WASTE OILS & LU	JBRICANTS		
<u>15</u>	4 of 24		E/94.1	163.0 / -0.60	MOTORWAYS TRANSPORT (OUT OF BUS.) 27- 492	GEN
					9514 MONTROSE RD. C/O PO BOX 772 NIAGARA FALLS ON L2E 6V6	
Generator N	o:	ON107	4100		PO Box No:	
Status: Approval Ye Contam. Fac	cility:	92,93,9	4,95,96,97,98		Country: Choice of Contact: Co Admin:	
MHSW Facil SIC Code:	ity:	4561			Phone No Admin:	
SIC Descript	tion:		GEN. FREIGHT TH	RUCK.		
<u>15</u>	5 of 24		E/94.1	163.0 / -0.60	DONALD W MURRAY (MOVERS) 1981 LIMITED 9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	GEN
Generator N	o:	ON183	5800		PO Box No:	
Status: Approval Ye		94,95,9	6,97		Country: Choice of Contact:	
	ility:				Co Admin:	

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Code: SIC Descripti	ion:	3231	MOTOR VEHICLE	IND.		
<u>Detail(s)</u>						
Waste Class: Waste Class			213 PETROLEUM DIST	TILLATES		
Waste Class: Waste Class			252 WASTE OILS & LU	BRICANTS		
<u>15</u>	6 of 24		E/94.1	163.0 / -0.60	CROWN TRUCKING SERVICES 9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	GEN
Generator No	o:	ON183	5800		PO Box No:	
Status: Approval Yea		98,99,0	0,01		Country: Choice of Contact:	
Contam. Faci MHSW Facilit					Co Admin: Phone No Admin:	
SIC Code: SIC Descripti	ion:	3231	MOTOR VEHICLE	IND.		
<u>Detail(s)</u>						
Waste Class: Waste Class			145 PAINT/PIGMENT/C	OATING RESIDU	JES	
Waste Class: Waste Class			213 PETROLEUM DIST	TILLATES		
Waste Class: Waste Class			252 WASTE OILS & LU	BRICANTS		
<u>15</u>	7 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRAY MOVERS (1981) LTD 9514 MONTROSE ROAD NIAGARA FALLS ON LOS 1K0	GEN
Generator No	o:	ON183	5800		PO Box No:	
Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	ility: ty:	02,03,0	4,05,06,07,08		<i>Country: Choice of Contact: Co Admin: Phone No Admin:</i>	
<u>Detail(s)</u>						
Waste Class: Waste Class			251 OIL SKIMMINGS &	SLUDGES		
Waste Class: Waste Class			145 PAINT/PIGMENT/C	OATING RESIDU	JES	
Waste Class: Waste Class			213 PETROLEUM DIST	ILLATES		
Waste Class: Waste Class			252 WASTE OILS & LU	BRICANTS		
Waste Class: Waste Class			212 ALIPHATIC SOLVE	INTS		

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Waste Class: Waste Class I	Desc:		221 LIGHT FUELS				
<u>15</u>	8 of 24		E/94.1	163.0/-0.60	DONALD W. MURRAY 9514 MONTROSE ROJ NIAGARA FALLS ON		GEN
Generator No	:	ON1835	800		PO Box No:		
Status: Approval Yea Contam. Facil	lity:	2009			Country: Choice of Contact: Co Admin:		
MHSW Facilit	y:	484110			Phone No Admin:		
SIC Description	on:		General Freight Tru	cking Local			
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class I	Desc:		213 PETROLEUM DIST	ILLATES			
Waste Class: Waste Class I	Desc:		221 LIGHT FUELS				
Waste Class: Waste Class I	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
<u>15</u>	9 of 24		E/94.1	163.0 / -0.60	9514 Montrose Road Niagara Falls ON		EHS
Order No:		2013020	6001		Nearest Intersection:		
Status: Report Type:		C Standard	Report		Municipality: Client Prov/State:	Niagara Falls ON	
Report Date:	_	14-FEB-	13		Search Radius (km):	.25	
Date Received Previous Site		06-FEB-	13		X: Y:	-79.122103 43.03993	
Lot/Building S Additional Inf	Size:		Fire Insur. Maps an	d/or Site Plans			
<u>15</u>	10 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRAY 9514 MONTROSE ROJ NIAGARA FALLS ON	. ,	GEN
Generator No Status:	:	ON1835	800		PO Box No: Country:		
Approval Yea Contam. Facil	lity:	2010			Choice of Contact: Co Admin:		
MHSW Facility SIC Code: SIC Description		484110	General Freight Tru	cking Local	Phone No Admin:		
			5	-			

<u>Detail(s)</u>

DB
RAY MOVERS (1981) LTD GEN ROAD DN
RAY MOVERS (1981) LTD GEN ROAD GEN DN LOS 1KO

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>						
Waste Class. Waste Class			221 LIGHT FUELS			
Waste Class. Waste Class			251 OIL SKIMMINGS &	SLUDGES		
Waste Class. Waste Class			212 ALIPHATIC SOLVE	NTS		
Waste Class. Waste Class			252 WASTE OILS & LUI	BRICANTS		
Waste Class. Waste Class			213 PETROLEUM DIST	ILLATES		
Waste Class Waste Class			145 PAINT/PIGMENT/C	OATING RESIDU	JES	
<u>15</u>	13 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRAY MOVERS (1981) LTD 9514 MONTROSE ROAD NIAGARA FALLS ON	GEN
Generator No	o:	ON1835	800		PO Box No:	
Status: Approval Yea		2013			Country: Choice of Contact:	
Contam. Fac MHSW Facili					Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	484110	GENERAL FREIGH	T TRUCKING, LO	DCAL	
<u>Detail(s)</u>						
Waste Class. Waste Class			213 PETROLEUM DIST	ILLATES		
Waste Class. Waste Class			221 LIGHT FUELS			
Waste Class. Waste Class			252 WASTE OILS & LUI	BRICANTS		
Waste Class. Waste Class			145 PAINT/PIGMENT/C	OATING RESIDU	JES	
Waste Class. Waste Class			251 OIL SKIMMINGS &	SLUDGES		
Waste Class Waste Class			212 ALIPHATIC SOLVE	NTS		
<u>15</u>	14 of 24		E/94.1	163.0/-0.60	Crown Transportation Group Limited 9514 Montrose Road Niagara Falls ON	GEN
Generator No	o:	ON4337	057		PO Box No:	
Status: Approval Yea	ars:	2013			Country: Choice of Contact:	
Contam. Fac MHSW Facili	ility:				Co Admin: Phone No Admin:	
SIC Code:	•	484110		TTDUOUNCO		
SIC Descript	ion:		GENERAL FREIGH	I TRUCKING, LO	JUAL	

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Detail(s)</u>							
Waste Class: Waste Class			252 WASTE OILS & LI	UBRICANTS			
Waste Class: Waste Class			251 OIL SKIMMINGS	& SLUDGES			
Waste Class: Waste Class			213 PETROLEUM DIS	TILLATES			
<u>15</u>	15 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRA 9514 MONTROSE RO NIAGARA FALLS OI		GEN
Generator No	o:	ON1835	800		PO Box No:		
Status: Approval Yea Contam. Fac MHSW Facili	ility:	2016 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL	
SIC Code: SIC Descript	ion:	484110	GENERAL FREIG	HT TRUCKING, LO	DCAL		
<u>Detail(s)</u>							
Waste Class: Waste Class			212 ALIPHATIC SOLV	ENTS			
Waste Class: Waste Class			145 PAINT/PIGMENT/	COATING RESIDU	IES		
Waste Class: Waste Class			221 LIGHT FUELS				
Waste Class: Waste Class			251 OIL SKIMMINGS	& SLUDGES			
Waste Class: Waste Class	-		213 PETROLEUM DIS	TILLATES			
Waste Class: Waste Class			252 WASTE OILS & LI	UBRICANTS			
<u>15</u>	16 of 24		E/94.1	163.0/-0.60	DONALD W. MURRA 9514 MONTROSE R(NIAGARA FALLS OI		GEN
Generator No	o:	ON1835	800		PO Box No:		
Status: Approval Yea Contam. Fac MHSW Facili	ility:	2015 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL	
SIC Code: SIC Descript	-	484110	GENERAL FREIG	HT TRUCKING, LO	DCAL		
<u>Detail(s)</u>							
Waste Class: Waste Class			212 ALIPHATIC SOLV	ENTS			
Waste Class:			145				

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Clas	s Desc:		PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Clas Waste Clas			221 LIGHT FUELS				
Waste Clas Waste Clas			252 WASTE OILS & LUI	BRICANTS			
Waste Clas Waste Clas			213 PETROLEUM DIST	ILLATES			
Waste Clas Waste Clas			251 OIL SKIMMINGS &	SLUDGES			
<u>15</u>	17 of 24		E/94.1	163.0 / -0.60	Crown Transportatio 9514 Montrose Road Niagara Falls ON LO	1	GEN
Generator I Status: Approval Y Contam. Fa MHSW Faci SIC Code:	ears: cility:	ON4337 2016 No No 484110			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL Josh Dobson 905-357-7500 Ext.	
SIC Descrip	otion:		GENERAL FREIGH	T TRUCKING, LO	DCAL		
<u>Detail(s)</u>							
Waste Clas Waste Clas			213 PETROLEUM DIST	ILLATES			
Waste Clas Waste Clas			212 ALIPHATIC SOLVE	NTS			
Waste Clas Waste Clas			251 OIL SKIMMINGS &	SLUDGES			
Waste Clas Waste Clas			252 WASTE OILS & LUI	BRICANTS			
<u>15</u>	18 of 24		E/94.1	163.0/-0.60	Crown Transportatio 9514 Montrose Road Niagara Falls ON LO	1	GEN
Generator I	No:	ON4337	057		PO Box No:		
Status: Approval Y Contam. Fa MHSW Faci	cility:	2015 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL Josh Dobson 905-357-7500 Ext.	
SIC Code: SIC Descrip	-	484110	GENERAL FREIGH	T TRUCKING, LO	DCAL		
<u>Detail(s)</u>							
Waste Clas Waste Clas			252 WASTE OILS & LUI	BRICANTS			
Waste Clas Waste Clas			213 PETROLEUM DIST	ILLATES			
Waste Clas Waste Clas			212 ALIPHATIC SOLVE	NTS			

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class Waste Class			251 OIL SKIMMINGS &	SLUDGES			
<u>15</u>	19 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRA 9514 MONTROSE R NIAGARA FALLS OI		GEN
Generator No Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: cility: ity:	ON1835 2014 No 484110	800 GENERAL FREIGH	HT TRUCKING, LO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: DCAL	Canada CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class Waste Class			213 PETROLEUM DIS ⁻	TILLATES			
Waste Class Waste Class			221 LIGHT FUELS				
Waste Class Waste Class	-		145 PAINT/PIGMENT/0	COATING RESIDU	IES		
Waste Class Waste Class			251 OIL SKIMMINGS &	SLUDGES			
Waste Class Waste Class			212 ALIPHATIC SOLVE	ENTS			
Waste Class Waste Class			252 WASTE OILS & LU	IBRICANTS			
<u>15</u>	20 of 24		E/94.1	163.0 / -0.60	Crown Transportati 9514 Montrose Road Niagara Falls ON L0	d	GEN
Generator No Status: Approval Yes Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: :ility: ity:	ON4337 2014 No 484110	057 GENERAL FREIGH	HT TRUCKING, LO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: DCAL	Canada CO_OFFICIAL Josh Dobson 905-357-7500 Ext.	
<u>Detail(s)</u>							
Waste Class Waste Class			252 WASTE OILS & LU	IBRICANTS			
Waste Class Waste Class			213 PETROLEUM DIS ^T	TILLATES			
Waste Class Waste Class			251 OIL SKIMMINGS &	SLUDGES			
<u>15</u>	21 of 24		E/94.1	163.0 / -0.60	DONALD W. MURRA 9514 MONTROSE R NIAGARA FALLS OI		GEN

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Generator No Status: Approval Yea Contam. Faci MHSW Facilitt SIC Code: SIC Descripti	nrs: lity: 'y:	ON183580 Registered As of Jun 2			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
Detail(s)							
Waste Class: Waste Class			21 L ight fuels				
Waste Class: Waste Class			13 L Petroleum distillates	3			
Waste Class: Waste Class			13 I Petroleum distillates	3			
Waste Class: Waste Class			52 L Vaste crankcase oi	ls and lubricants			
Waste Class: Waste Class			12 L liphatic solvents a	nd residues			
Waste Class: Waste Class			51 L Vaste oils/sludges	(petroleum based)			
<u>15</u>	22 of 24		E/94.1	163.0 / -0.60	9514 Montrose Rd Niagara Falls ON L0S1	КО	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Inf	Name: Size:	201610251 C Standard R 01-NOV-16 25-OCT-16	eport		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -79.122057 43.040033	
<u>15</u>	23 of 24		E/94.1	163.0 / -0.60	ES Fox 9514 Montrose Road Niagara Falls ON L0S 1	IKO	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facillit SIC Code: SIC Descripti	nrs: lity: 'y:	ON946257 Registered As of Dec 2			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class			51 L Vaste oils/sludges	(petroleum based)			
Waste Class: Waste Class			53 L mulsified oils				

Мар Кеу	Number Records	•••	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
<u>15</u> 2	24 of 24	E	5/94.1	163.0 / -0.60	ES Fox 9514 Montrose Road Niagara Falls ON L0S		GEN
Generator No: Status: Approval Years Contam. Facility MHSW Facility SIC Code: SIC Description	ty: ::	ON9462571 Registered As of Oct 20	19		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class D	esc:	-	3 L nulsified oils				
Waste Class: Waste Class D	esc:	-	1 L aste oils/sludges ((petroleum based)			
<u>16</u> 1	1 of 1	S	SE/102.6	176.8 / 13.19	lot 2 con 1 ON		www
Well ID:		6604508			Data Entry Status:		
Construction E Primary Water		Domestic			Data Src: Date Received:	1 1/8/2001	
Sec. Water Use	e:				Selected Flag:	True	
Final Well Stati Water Type:	us:	Water Suppl	у		Abandonment Rec: Contractor:	3640	
Casing Materia	al:				Form Version:	1	
Audit No: Tag:		213677			Owner: Street Name:		
Construction N	Nethod:				County:	NIAGARA	
Elevation (m): Elevation Relia	ability:				Municipality: Site Info:	NIAGARA FALLS CITY (CROWLAND)	
Depth to Bedro					Lot:	002	
Well Depth: Overburden/Be	edrock:				Concession: Concession Name:	01 CON	
Pump Rate:					Easting NAD83:		
Static Water Le Flowing (Y/N):	evel:				Northing NAD83: Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy:							
PDF URL (Map):	htt	ps://d2khazk8e83	Brdv.cloudfront.net/	moe_mapping/downloads/2	Water/Wells_pdfs/660\6604508.pdf	
Additional Deta	<u>ail(s) (Ma</u> j	<u>o)</u>					
Well Complete			00/09/04 00				
Year Complete Depth (m):	:a:		.2984				
Latitude:			.0311039634278				
Longitude: Path:			9.1320205751532 0\6604508.pdf	-			
Bore Hole Info	<u>rmation</u>						
Bore Hole ID:		10464105			Elevation:	178.030990	
DP2BR: Spatial Status:		71.00 Improved			Elevrc: Zone:	17	
Spatial Status: Code OB:		r			East83:	652181.00	
Code OB Desc		Bedrock			North83:	4765962.00	
Open Hole:					Org CS:	N83	

erisinfo.com | Environmental Risk Information Services

Order No: 21081100468

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Remarks: Elevrc Desc:		2000 00:00:00		UTMRC: UTMRC Desc: Location Method:	3 margin of error : 10 - 30 m	
Location Sou	rce Date: Location Source:	1999-2004 MOE Wa	ater Well Data In	nprovement Project		
Improvement Location Method:		GIS				
Source Revis Supplier Con	ion Comment: nment:			en changed. Location estim ather than a Lot Centroid in		
<u>Overburden a</u> Materials Inte						
Formation ID	:	932602923				
Layer:		4 6				
Color: General Colo	r-	BROWN				
Mat1:		05				
Most Commo	on Material:	CLAY				
Mat2:		79				
Mat2 Desc: Mat3:		PACKED				
Mat3 Desc:	5 4	10.0				
Formation To Formation En		40.0 50.0				
	nd Depth UOM:	ft				
<u>Overburden a</u> Materials Inte						
Formation ID	:	932602921				
Layer:		2				
Color: General Colo	<i>v</i> .	2 GREY				
Mat1:		05				
Most Commo	on Material:	CLAY				
Mat2:		66				
Mat2 Desc:		DENSE				
Mat3: Mat3 Dasa						
Mat3 Desc: Formation To	on Denth:	15.0				
Formation Er		20.0				
Formation Er	nd Depth UOM:	ft				
<u>Overburden a</u> Materials Inte						
Formation ID	:	932602925				
Layer:		6				
Color: General Colo	r-	6 BROWN				
Mat1:		11				
Most Commo	on Material:	GRAVEL				
Mat2:		12				
Mat2 Desc:		STONES				
Mat3: Mat3 Desc:		79 PACKED				
Formation To	op Depth:	65.0				
Formation En	nd Depth:	71.0				
	nd Depth UOM:	ft				
.						
<u>Overburden a</u>	and Bedrock					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Di
Materials Inte	<u>rval</u>				
Formation ID:		932602922			
Layer:		3			
Color:		7			
General Colo	r:	RED			
Mat1: Most Commo	n Matariali	05 CLAY			
Most Commo Mat2:	n waterial:	66			
Mat2 Desc:		DENSE			
Mat3:		2202			
Mat3 Desc:					
Formation To	p Depth:	20.0			
Formation En		40.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID:		932602926			
Layer: Color:		7			
Color: General Colol		2 GREY			
Mat1:	-	15			
Most Commo	n Material:	LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:					
Mat3 Desc:	n Donth	74.0			
Formation To Formation En		71.0 83.0			
	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID:		932602920			
Layer:		1			
Color:		6 RROW(N			
General Coloi Mat1:	r:	BROWN 05			
Most Commo	n Material:	CLAY			
Mat2:		79			
Mat2 Desc:		PACKED			
Mat3:					
Mat3 Desc:	n Danth	0.0			
Formation To		0.0 15.0			
Formation En Formation En	d Depth UOM:	ft			
Overburden a Motoriala Into					
Materials Inte					
Formation ID:		932602924			
Layer: Color:		5 6			
General Color	r:	BROWN			
Mat1:	-	05			
Most Commo	n Material:	CLAY			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:		79 PACKED			
Mat3 Desc:					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation T		50.0			
Formation E		65.0 "			
Formation E	nd Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Con		966604508			
Method Cons	struction Code:	1 Cable Tool			
	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		11012675			
Casing No:		1			
Comment: Alt Name:					
Construction	- Descurit - Casima				
	n Record - Casing				
Casing ID: Layer:		930753860 2			
Material:		2			
Open Hole o					
Depth From:					
Depth To: Casing Diam	otor:	6			
Casing Diam		inch			
Casing Dept		ft			
<u>Constructior</u>	n Record - Casing				
Casing ID:		930753859			
Layer:		1			
Material:	u Mataviala	1 STEEL			
Open Hole o Depth From:		SIEEL			
Depth To:					
Casing Diam		6			
Casing Diam Casing Dept		inch ft			
Casing Dept		it.			
<u>Results of W</u>	<u>lell Yield Testing</u>				
Pump Test II		996604508			
Pump Set At Static Level:		25.0			
	fter Pumping:	68.0			
Recommend	ed Pump Depth:	70.0			
Pumping Rate		6.0			
Recommend	ed Pump Rate:	5.0			
Levels UOM:		ft			
Rate UOM: Water State	After Test Code:	GPM 2			
Water State		CLOUDY			
Pumping Tes	st Method:	2			
Pumping Du Pumping Du		2			
Flowing:		No			

Map Key	Number Records		Elev/Diff (m)	Site		DB
Draw Down a	<u>& Recovery</u>					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934612520 Draw Down 30 68.0 ft				
Draw Down a	<u>& Recovery</u>					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934345165 Draw Down 15 68.0 ft				
Draw Down a	<u>& Recovery</u>					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	935122708 Draw Down 60 68.0 ft				
<u>Draw Down a</u>	<u>& Recovery</u>					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934866708 Draw Down 45 68.0 ft				
Water Details	<u>s</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		933951890 2 3 SULPHUR 75.0 1 : ft				
Water Details	<u>s</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		933951889 1 3 SULPHUR 71.0 1 : ft				
<u>17</u>	1 of 5	E/105.1	175.2 / 11.58	9515 Montrose Rd Niagara Falls ON		EHS
Order No: Status: Report Type. Report Date: Date Receive Previous Situ Lot/Building	ed: e Name:	20200219057 C RSC Report - Quote 24-FEB-20 19-FEB-20		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	OH .3 -79.12464291 43.03978149	

D		Site	Elev/Diff (m)	f Direction/ Distance (m)	Number o Records	Мар Кеу
	ory; Aerial Photos	opographic Maps; City Direct	d/or Site Plans; To	Fire Insur. Maps an	fo Ordered:	Additional In
EHS		9515 Montrose Rd Niagara Falls ON	175.2 / 11.58	E/105.1	2 of 5	<u>17</u>
		Nearest Intersection:		0200219057	2	Order No:
		Municipality:			-	Status:
	ОН	Client Prov/State:		SC Report - Quote		Report Type:
	.3	Search Radius (km):		4-FEB-20		Report Date:
	-79.12464291	X:		9-FEB-20	e d: 1	Date Receive
	43.03978149	Y:			e Name:	Previous Site
	ory; Aerial Photos	opographic Maps; City Direct	d/or Site Plans; To	Fire Insur. Maps an		Lot/Building Additional In
EHS		9515 Montrose Rd Niagara Falls ON	175.2 / 11.58	E/105.1	3 of 5	<u>17</u>
		Nearest Intersection:		0200219057		Order No:
		Municipality:			C	Status:
	OH	Client Prov/State:		SC Report - Quote		Report Type:
	.3	Search Radius (km):		4-FEB-20		Report Date:
	-79.12464291	X:		9-FEB-20		Date Receive
	43.03978149	Y:				Previous Site
	ory; Aerial Photos	opographic Maps; City Direct	d/or Site Plans; To	Fire Insur. Maps an		Lot/Building Additional In
EHS		9515 Montrose Rd	175.2 / 11.58	E/105.1	4 of 5	<u>17</u>
		Niagara Falls ON Nearest Intersection:		0200219057	2	Order No:
		Municipality:			C	Status:
	ОН	Client Prov/State:		SC Report - Quote	: F	Report Type:
	.3	Search Radius (km):		4-FEB-20		Report Date:
	-79.12464291	X:		9-FEB-20		Date Receive
	43.03978149	Y:				Previous Site
	ory; Aerial Photos	opographic Maps; City Direct	d/or Site Plans; To	Fire Insur. Maps an		Lot/Building Additional In
		0545 Mantrada Bd	175.2 / 11.58	E (405.4	5 - 4 5	47
EHS		9515 Montrose Rd Niagara Falls ON	175.2 / 11.58	E/105.1	5 of 5	<u>17</u>
		Nearest Intersection:		0200219057		Order No:
		Municipality:			C	Status:
	ОН	Client Prov/State:		SC Report - Quote		Report Type:
	.3	Search Radius (km):		4-FEB-20		Report Date:
	-79.12464291	X:		9-FEB-20		Date Receive
	43.03978149	Y:				Previous Site Lot/Building
	ory; Aerial Photos	opographic Maps; City Direct	d/or Site Plans; To	Fire Insur. Maps an		Additional In
		E & A Omiskakana #4	178.5 / 14.85	SW/111.5	4 - 5 4	
				3///111.5	1 of 1	18
OOG		E & A. Cruickshank #1 Crowland ON	170.37 14.03			
OOG		Crowland ON	170.37 14.00			
OOG	26049	Crowland ON Well Compl:	170.37 14.03	014193		Licence No:
OOG	26049 Welland NULL	Crowland ON	170.57 14.05		2	Licence No: Well ID: Well Compl I

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	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
W Class ID:	2362			Lot:	4
UWI Code:	F014193			Conc:	1
Permit Date:	NULL			Surface Lat NAD83:	43.03070861
Depth(m):	152.70			Surface Long NAD83:	-79.14211222
Well Pool:	Welland F	Pool		Bottom Lat NAD83:	43.03070861
Completion Dat	e; NULL			Bottom Long NAD83:	-79.14211222
Depth Reached:		9 00:00:00		Lot Sides (m):	91.44 S
Capped Date:	NULL			E/W (m):	91.44 E
Class ID:				Latitude Nad27:	• · · · · · =
DB Source:				Longitude Nad27:	
Status as of:	June 2020	ו		bottom lat27:	
Start Date:		29 00:00:00		bottom long27:	
SPUD Date:		29 00:00:00		Lateral:	No
Class:	DEV	.5 00.00.00		Accuracy:	50
Grnd Elev:	178.60			Method:	Well Records (1921 to 1954)
KB Elev:	178.90			Parent:	NULL
TVD:	152.70			Prod Top:	121.31
PBTD:	NULL			Prod Bot:	138.07
TD Form:	Queensto	n		PROPD Depth:	520.00
Workover D:	NULL			Location Method:	Well Records (1921 to 1954)
Operator:	W. C. Pat	terson Gas Co. Ltd.		Location Accuracy:	Within 50 metres
Township:	Crowland			Dt Obtained:	NULL
Well Name:		E & A. Cruickshank #	±1		
Target:		SIL			
Target Desc:		UNSUBDIVIDED			
Well Status Typ	e.	Natural Gas Well			
Status Type Des			Y OR FORMER	LY USED TO PRODUCE N	ATURAL GAS FROM A RESERVOIR
		Unknown			
••					
Well Status Mod					
Well Status Moc Status Mode De					
Well Status Moo Status Mode De Classification:	sc:				
Well Status Moo Status Mode De Classification:	sc:	"DEVELOPMENT W	-	_	OR THE PURPOSE OF PRODUCING FROM
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Well Status Moc Status Mode De Classification: Classification D Cement Rec:	sc: esc:	"DEVELOPMENT W EXTENDING A POO NULL	L OF OIL OR G	AS INTO WHICH ANOTHER	R WELL HAS ALREADY BEEN DRILLED
Well Status Mode Status Mode De Classification: Classification D Cement Rec:	sc: esc:	"DEVELOPMENT W EXTENDING A POO NULL	L OF OIL OR G	AS INTO WHICH ANOTHER	
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Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: <u>Details</u>	sc: esc:	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim	L OF OIL OR G	AS INTO WHICH ANOTHEF	R WELL HAS ALREADY BEEN DRILLED
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: <u>Details</u> License No:	sc: esc: F014193	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: <u>Details</u> License No: Top (m):	sc: esc: F014193 111.25	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: <u>Details</u> License No: Top (m): Elevation (m):	sc: esc: F014193 111.25 67.65	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim	L OF OIL OR G	AS INTO WHICH ANOTHEF ified. Ground Elev from DEM Source: Static Level (m): Geology/Water:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m):	sc: esc: F014193 111.25 67.65	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format	sc: esc: F014193 111.25 67.65	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHEF ified. Ground Elev from DEM Source: Static Level (m): Geology/Water:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology
Well Status Mod Status Mode De Classification D Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water:	sc: esc: F014193 111.25 67.65 tion: Irondequo n/a	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEN Source: Static Level (m): Geology/Water: Elevation / Top (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25
Well Status Mod Status Mode De Classification D Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water:	sc: esc: F014193 111.25 67.65 tion: Irondeque	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology
Well Status Mod Status Mode De Classification D Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water: License No:	sc: esc: F014193 111.25 67.65 tion: Irondequo n/a	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25
Well Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Top (m):	sc: esc: F014193 111.25 67.65 tion: Irondeque n/a F014193	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25 FORM 7
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Nell Status Mod Status Mode De Classification: Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Seology Format Cicense No: License No: License No: Elevation (m): Elevation (m): Seology Format	sc: esc: f014193 111.25 67.65 tion: Irondequo n/a F014193 151.79 27.11	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25 FORM 7 n/a
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Well Status Mod Status Mode De Classification D Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Top (m): Elevation (m): Geology Format Type of Water: License No:	sc: esc: f014193 111.25 67.65 tion: Irondeque n/a F014193 151.79 27.11 Queensto n/a F014193	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25 FORM 7 n/a Geology 27.11 / 151.79 FORM 7
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Well Status Mode Status Mode De Classification: Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Top (m): Elevation (m): Geology Format	sc: esc: form: for	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	R WELL HAS ALREADY BEEN DRILLED 1 in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25 FORM 7 n/a Geology 27.11 / 151.79 FORM 7 n/a Geology 34.12 / 144.78 FORM 7
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Well Status Mode Status Mode De Classification D Classification D Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Format Type of Water: License No: Type of Water: License No:	sc: esc: form: for	"DEVELOPMENT WI EXTENDING A POO NULL Accuracy is approxim Ground + 0.3m.	L OF OIL OR G	AS INTO WHICH ANOTHER ified. Ground Elev from DEM Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Source:	R WELL HAS ALREADY BEEN DRILLED I in PetroGIS (A. Lenny, 7 August 2013), KB FORM 7 n/a Geology 67.65 / 111.25 FORM 7 n/a Geology 27.11 / 151.79 FORM 7 n/a Geology 34.12 / 144.78 FORM 7 n/a Geology 34.12 / 144.78 FORM 7 n/a Geology 40.83 / 138.07 MNR
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Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Forma Type of Water:		Guelph n/a			Elevation / Top (m):	142.32 / 36.58	
License No:		F014193			Source:	FORM 7	
Top (m):		36.58			Static Level (m):	n/a	
Elevation (m):		142.32			Geology/Water:	Geology	
Geology Forma	ation	Guelph			Elevation / Top (m):	142.32 / 36.58	
Type of Water:		n/a				142.32 / 30.30	
License No:		F014193			Source:	MNR	
		111.25				n/a	
Top (m): Elevation (m):		67.65			Static Level (m): Geology/Water:	Geology	
Geology Forma	ation	Irondequoit			Elevation / Top (m):	67.65 / 111.25	
Type of Water:		n/a			Elevation / Top (m).	07.007 111.20	
License No:		F014193			Source:	FORM 7	
Top (m):		12.19			Static Level (m):	n/a	
Elevation (m):		166.71			Geology/Water:	Geology	
Geology Forma	ation	Marcellus			Elevation / Top (m):	166.71 / 12.19	
Type of Water:		n/a				100.117 12.10	
License No:		F014193			Source:	FORM 7	
Top (m):		0.03			Static Level (m):	n/a	
Elevation (m):		178.87			Geology/Water:	Geology	
Geology Forma	ation:	Drift			Elevation / Top (m):	178.87 / 0.03	
Type of Water:		n/a					
License No:		F014193			Source:	FORM 7	
Top (m):		121.31			Static Level (m):	n/a	
Elevation (m):		57.59			Geology/Water:	Geology	
Geology Forma	ation:	Grimsby			Elevation / Top (m):	57.59 / 121.31	
Type of Water:		n/a					
License No:		F014193			Source:	MNR	
Тор (т):		20.73			Static Level (m):	n/a	
Elevation (m):		158.17			Geology/Water:	Geology	
Geology Forma	ation:	B Anhydrite			Elevation / Top (m):	158.17 / 20.73	
Type of Water:		n/a					
License No:		F014193			Source:	n/a	
Тор (т):		NULL			Static Level (m):	5.49	
Elevation (m):		n/a			Geology/Water:	Water	
Geology Forma	ation:	Guelph			Elevation / Top (m):	n/a / NULL	
Type of Water:		Sulphur					
License No:		F014193			Source:	MNR	
Тор (т):		121.31			Static Level (m):	n/a	
Elevation (m):		57.59			Geology/Water:	Geology	
Geology Forma		Grimsby			Elevation / Top (m):	57.59 / 121.31	
Type of Water:		n/a					
License No:		F014193			Source:	MNR	
Top (m):		144.78			Static Level (m):	n/a	
Elevation (m):		34.12			Geology/Water:	Geology	
Geology Forma Type of Water:		Whirlpool n/a			Elevation / Top (m):	34.12 / 144.78	
					Course	MND	
License No:		F014193			Source:	MNR	
Top (m):		12.19			Static Level (m):	n/a Coology	
Elevation (m):	diar-	166.71 Margallug			Geology/Water:	Geology	
Geology Forma Type of Water:		Marcellus n/a			Elevation / Top (m):	166.71 / 12.19	
License No:		E014102			Source	MNR	
Top (m):		F014193 138.07			Source: Static Level (m):	n/a	
Elevation (m):		40.83			Geology/Water:	Geology	
		-0.00			Geology/Water.	Cology	

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Form Type of Water		Cabot Head n/a	l		Elevation / Top (m):	40.83 / 138.07	
License No: Top (m):		F014193 151.79			Source: Static Level (m):	MNR n/a	
Elevation (m):	•	27.11			Geology/Water:	Geology	
Geology Form		Queenston			Elevation / Top (m):	27.11 / 151.79	
Type of Water		n/a					
License No:		F014193			Source:	FORM 7	
Тор (т):		20.73			Static Level (m):	n/a	
Elevation (m):		158.17			Geology/Water:	Geology	
Geology Form Type of Water		B Anhydrite n/a			Elevation / Top (m):	158.17 / 20.73	
License No:		F014193			Source:	MNR	
Top (m):		0.03			Static Level (m):	n/a	
Elevation (m):		178.87			Geology/Water:	Geology	
Geology Form	nation:	Drift			Elevation / Top (m):	178.87 / 0.03	
Type of Water	<i>:</i>	n/a					
License No:		F014193			Source:	MNR	
Тор (т):		92.96			Static Level (m):	n/a	
Elevation (m):		85.94			Geology/Water:	Geology	
Geology Form Type of Water		Rochester n/a			Elevation / Top (m):	85.94 / 92.96	
License No:		F014193			Source:	n/a	
Тор (т):		NULL			Static Level (m):	6.71	
Elevation (m):		n/a			Geology/Water:	Water	
Geology Form Type of Water		B Anhydrite Fresh			Elevation / Top (m):	n/a / NULL	
License No:		F014193			Source:	n/a	
Тор (т):		NULL			Static Level (m):	6.71	
Elevation (m):		n/a			Geology/Water:	Water	
Geology Form Type of Water		Marcellus Fresh			Elevation / Top (m):	n/a / NULL	
License No:		F014193			Source:	FORM 7	
Top (m):		92.96			Static Level (m):	n/a	
Elevation (m):	•	85.94			Geology/Water:	Geology	
Geology Form Type of Water	nation:	Rochester n/a			Elevation / Top (m):	85.94 / 92.96	
Type of Water	-	1#a					
<u>19</u>	1 of 1		S/142.8	176.9 / 13.30	W. C. Patterson Gas	Co. A & E Woodgate	OOGW
					Crowland ON		
Licence No:		F014190			Well Compl:	26081	
Well ID:	_	26113			County:	Welland	
Well Compl ID):	26081			Block:	NULL	
W Class ID:		2362 E014100			Lot:	3	
UWI Code: Permit Date:		F014190 NULL			Conc: Surface Lat NAD83:	43.03047361	
Depth(m):		153.92			Surface Long NAD83:	-79.13461694	
Well Pool:		NULL			Bottom Lat NAD83:	43.03047361	
Completion D	ate:	NULL			Bottom Long NAD83:	-79.13461694	
Depth Reache		1948-05-19	00:00:00		Lot Sides (m):	121.92 S	
Capped Date:		1948-05-19	00:00:00		E/W (m):	121.92 W	
Class ID:					Latitude Nad27:		
DB Source:					Longitude Nad27:		
Status as of:		June 2020	00.00.00		bottom lat27:		
Start Date:		1948-05-01			bottom long27:	No	
SPUD Date:		1948-05-01	00:00:00		Lateral:	No	

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Order No: 21081100468

	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	D
Class:		DEV			Accuracy:	50
Grnd Elev:		153.92			Method:	Well Records (1921 to 1954)
KB Elev:		153.92			Parent:	NULL
TVD:		153.92			Prod Top:	NULL
PBTD:		NULL			Prod Bot:	NULL
TD Form:		Queenston			PROPD Depth:	213.36
Workover D:						
		NULL			Location Method:	Well Records (1921 to 1954)
Operator:			rson Gas Co. Ltd.		Location Accuracy:	Within 50 metres
Township:		Crowland			Dt Obtained:	NULL
Well Name:			V. C. Patterson Gas	Co. A & E Woo	dgate	
Target:		N	IULL			
Target Desc:						
Well Status Ty	/pe:	D	ry Hole			
Status Type D		А	WELL CLASSED	AS EXPLORATO	ORY OR DEVELOPMENT IN	N WHICH NO HYDROCARBONS HAVE BEEN
······		F	NCOUNTERED			
Well Status Mo	ode.		bandoned Well			
Status Mode D					JGGED AND ABANDONED	
					JOGED AND ABANDONEL	
Classification:	-					
Classification	Desc:					OR THE PURPOSE OF PRODUCING FROM
				L OF OIL OR G	AS INTO WHICH ANOTHEI	R WELL HAS ALREADY BEEN DRILLED
Cement Rec:			IULL			
Comments:		А	ccuracy is approxin	nate and not veri	fied.	
<u>Details</u>						
License No:		F014190			Source:	MNR
Тор (т):		96.62			Static Level (m):	n/a
Elevation (m):		57.30			Geology/Water:	Geology
Geology Form		Rochester			Elevation / Top (m):	57.30 / 96.62
Type of Water:		n/a			Elevation / Top (m).	01.007.00.02
Type of Water.		n/a				
License No:		F014190			Source:	MNR
Тор (т):		152.70			Static Level (m):	n/a
Elevation (m):		1.22			Geology/Water:	Geology
Geology Form		Queenston			Elevation / Top (m):	1.22 / 152.70
Type of Water:		n/a			P ()	
License No:		F014190			Source:	MNR
Top (m):		138.38			Static Level (m):	n/a
Elevation (m):		15.54			Geology/Water:	Geology
• • •		Cabot Head	4			15.54 / 138.38
Geology Form			1		Elevation / Top (m):	15.54 / 136.36
Type of Water:	:	n/a				
		F014190			Source:	FORM 7
liconco Noi						-
License No:		96.62			Static Level (m):	n/a
Тор (т):					Geology/Water:	Geology
Top (m): Elevation (m):		57.30				
Top (m): Elevation (m):		S7.30 Rochester			Elevation / Top (m):	57.30 / 96.62
Top (m): Elevation (m): Geology Form	ation:				Elevation / Top (m):	57.30 / 96.62
Top (m): Elevation (m): Geology Form Type of Water:	ation:	Rochester n/a				
Top (m): Elevation (m): Geology Form Type of Water: License No:	nation: :	Rochester n/a F014190			Source:	FORM 7
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m):	nation: :	Rochester n/a F014190 21.34			Source: Static Level (m):	FORM 7 n/a
Top (m): Elevation (m): Geology Form Type of Water: License No: License No: Elevation (m):	nation: :	Rochester n/a F014190 21.34 132.59			Source: Static Level (m): Geology/Water:	FORM 7 n/a Geology
Гор (m): Elevation (m): Geology Form Type of Water: License No: License No: Elevation (m): Geology Form	nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite	3		Source: Static Level (m):	FORM 7 n/a
Top (m): Elevation (m): Geology Form Type of Water: License No: License No: Elevation (m): Geology Form	nation: : nation:	Rochester n/a F014190 21.34 132.59	9		Source: Static Level (m): Geology/Water:	FORM 7 n/a Geology
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No:	nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190			Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	FORM 7 n/a Geology 132.59 / 21.34 MNR
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No:	nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a	3		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 132.59 / 21.34
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m):	ation: : nation: :	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190	3		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m):	ation: : nation: :	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14 30.78	3		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	FORM 7 n/a Geology 132.59 / 21.34 MNR
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m):	nation: : nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14	2		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a Geology
Fop (m): Elevation (m): Geology Form Type of Water: License No: Fop (m): Elevation (m): Geology Form Type of Water: License No: Elevation (m): Geology Form Type of Water:	nation: : nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14 30.78 Grimsby	•		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a Geology
Fop (m): Elevation (m): Geology Form Type of Water: License No: Fop (m): Elevation (m): Geology Form Type of Water: License No: Geology Form Type of Water: License No:	nation: : nation: : nation:	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14 30.78 Grimsby n/a F014190	2		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a Geology 30.78 / 123.14 MNR
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No: Type of Water: License No: Top (m):	nation: : aation: : aation: :	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14 30.78 Grimsby n/a F014190 36.58	2		Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a Geology 30.78 / 123.14 MNR n/a
Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form Type of Water: License No: Top (m): Elevation (m): Geology Form	nation: : aation: : nation: :	Rochester n/a F014190 21.34 132.59 B Anhydrite n/a F014190 123.14 30.78 Grimsby n/a F014190			Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	FORM 7 n/a Geology 132.59 / 21.34 MNR n/a Geology 30.78 / 123.14 MNR

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Type of Water	: n/a				
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Irondeque	it		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 42.06 / 111.86
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Drift			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a NULL Water n/a / 12.19
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Irondeque	it		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 42.06 / 111.86
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Drift			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 6.40 Water n/a / 12.12
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: B Anhydri	te		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 132.58 / 21.34
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Queensto	n		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 1.22 / 152.70
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Whirlpool			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 6.40 / 147.52
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Grimsby			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 30.78 / 123.14
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Whirlpool			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 6.40 / 147.52
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: Guelph			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 117.35 / 36.58
License No: Top (m): Elevation (m): Geology Form		ad		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 15.54 / 138.38

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DB

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site	
Type of Wate	r:	n/a				
License No: Top (m): Elevation (m) Geology Forn	mation:	F014190 20.73 n/a A-2 Carbor	nate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a NULL Water n/a / 20.73
Type of Wate	r:	Sulphur				
<u>20</u>	1 of 1		ESE/154.0	175.8 / 12.19	lot 1 ON	W
Vell ID:		6600612			Data Entry Status:	
Construction					Data Src:	1
Primary Wate	r Use:	Not Used			Date Received:	1/6/1961
Sec. Water Us	se:	0			Selected Flag:	True
Final Well Sta	itus:	Test Hole			Abandonment Rec:	
Vater Type:					Contractor:	2801
Casing Mater	ial:				Form Version:	1
Audit No:					Owner:	
Tag:					Street Name:	
Construction					County:	
Elevation (m)					Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Rel					Site Info:	001
Depth to Bed	rock:				Lot:	001
Vell Depth: Dverburden/E	Podrock:				Concession: Concession Name:	BF
Pump Rate:	Seurock.				Easting NAD83:	BI
Static Water I	lovol				Northing NAD83:	
Flowing (Y/N)					Zone:	
Flow Rate:					UTM Reliability:	
Clear/Cloudy	:				O IM Renability.	
PDF URL (Ma	p):	ł	ttps://d2khazk8e83	rdv.cloudfront.net	t/moe_mapping/downloads	/2Water/Wells_pdfs/660\6600612.pdf
Additional De	etail(s) (Ma	<u>p)</u>				
			1960/06/22			
Well Complet	ed Date:	1				
			960			
Year Complet		1	1960 24.6888			
Year Complet Depth (m):		1 2				
Well Complet Year Complet Depth (m): Latitude: Longitude:		1 2 4	24.6888			
Year Comple Depth (m): Latitude: Longitude:		1 2 4 -	24.6888 13.0349864423041	;		
Year Complet Depth (m): Latitude: Longitude: Path:	ted:	1 2 4 -	24.6888 13.0349864423041 79.1244038681013	l		
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID:	ted: Formation	1 2 - - 6 10460346	24.6888 13.0349864423041 79.1244038681013	i	Elevation:	177.350769
Year Complet Depth (m): Latitude: Longitude: Path: Path: Bore Hole Inf DP2BR:	ted: <u>Formation</u>	1 2 - 6	24.6888 13.0349864423041 79.1244038681013	i	Elevrc:	
<i>(ear Complet Depth (m): .atitude: .ongitude: Path: Path: Bore Hole Inf DP2BR: Spatial Status</i>	ted: <u>Formation</u>	1 2 - - 6 10460346	24.6888 13.0349864423041 79.1244038681013	i	Elevrc: Zone:	17
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf DP2BR: Spatial Status Code OB:	ted: <u>formation</u> s:	1 2 4 - 6 10460346 80.00 r	24.6888 13.0349864423041 79.1244038681013	i	Elevrc: Zone: East83:	17 652791.90
Year Complet Depth (m): .atitude: .ongitude: Path: Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des	ted: <u>formation</u> s:	1 2 - 6 10460346 80.00	24.6888 13.0349864423041 79.1244038681013	1	Elevrc: Zone: East83: North83:	17
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Dpen Hole:	ted: formation s: sc:	1 2 4 - 6 10460346 80.00 r	24.6888 13.0349864423041 79.1244038681013	1	Elevrc: Zone: East83: North83: Org CS:	17 652791.90 4766407.00
Year Complet Depth (m): .atitude: .ongitude: Path: Path: Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Dpen Hole: Cluster Kind:	ted: formation s: sc:	1 2 4 - 6 10460346 80.00 r Bedrock	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf	1	Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 652791.90 4766407.00 5
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB: Code OB Des Dpen Hole: Duster Kind:	ted: formation s: sc:	1 2 4 - 6 10460346 80.00 r Bedrock	24.6888 13.0349864423041 79.1244038681013	1	Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	17 652791.90 4766407.00 5 margin of error : 100 m - 300 m
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole ID: DP2BR: Spatial Status Code OB Spatial Status Code OB Den Hole: Cluster Kind: Date Complet Remarks:	ted: formation s: sc:	1 2 4 - 6 10460346 80.00 r Bedrock	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf	1	Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 652791.90 4766407.00 5
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB Den Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc:	ted: formation s: sc: ted:	1 2 4 - 6 10460346 80.00 r Bedrock	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf	1	Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	17 652791.90 4766407.00 5 margin of error : 100 m - 300 m
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB Des Dpen Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou	ted: formation s: sc: ted: urce Date:	10460346 80.00 r Bedrock 22-Jun-196	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf		Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	17 652791.90 4766407.00 5 margin of error : 100 m - 300 m
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB Des Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou	ted: formation s: sc: ted: ted: tcocation s	10460346 80.00 r Bedrock 22-Jun-196 Source:	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf	8	Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	17 652791.90 4766407.00 5 margin of error : 100 m - 300 m
Year Complet Depth (m): Latitude: Longitude: Path: Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB Des Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou	ted: formation s: sc: ted: ted: t Location s t Location s	10460346 80.00 r Bedrock 22-Jun-196 Source: Method:	24.6888 43.0349864423041 79.1244038681013 360\6600612.pdf	5	Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	17 652791.90 4766407.00 5 margin of error : 100 m - 300 m

Overburden and Bedrock

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Materials Inte	rval				
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En	: n Material: p Depth: d Depth:	932589374 4 3 BLUE 05 CLAY 11 GRAVEL 13 BOULDERS 39.0 50.0 ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation To Formation En	: n Material: p Depth: d Depth:	932589376 6 SILT 08 FINE SAND 09 MEDIUM SAND 55.0 63.0 ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation To Formation En	: n Material: p Depth:	932589372 2 7 RED 05 CLAY 1.0 15.0			
Formation En	d Depth UOM:	ft			
Materials Inter					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc:	2	932589373 3 2 GREY 05 CLAY			

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation To	p Depth:	15.0			
Formation En		39.0			
Formation En	d Depth UOM:	ft			
Overburden a Materials Inte					
Formation ID:		932589377			
Layer:		7			
Color: General Color					
Mat1:	•	05			
Most Commo	n Material:	CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation To		63.0			
Formation En		77.0			
Formation En	d Depth UOM:	ft			
Overburden a Materials Inte					
Formation ID:		932589379			
Layer:		9			
Color:					
General Coloi Mat1:	:	15			
Matt: Most Commo	n Matorial·	LIMESTONE			
Mat2:	n watenar.	LIMEOTONE			
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To		80.0			
Formation En		81.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID:		932589378			
Layer:		8			
Color:					
General Color	r:	05			
Mat1: Most Commo	n Matarial	05 CLAY			
Mat2:	n waterial:	11			
Mat2. Mat2 Desc:		GRAVEL			
Mat2: Dese. Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation To	p Depth:	77.0			
Formation En	d Depth:	80.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID:		932589375			
		5			
Layer:					
Layer: Color: General Coloi					

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1: Most Common I Mat2: Mat2 Desc:	Material:	05 CLAY 06 SILT			
<i>Mat3: Mat3 Desc: Formation Top I Formation End</i>	Depth:	50.0 55.0			
Formation End	Depth UOM:	ft			
Overburden and Materials Interva					
Formation ID: Layer: Color:		932589371 1			
General Color: Mat1:		02			
Most Common I Mat2: Mat2 Desc:	Material:	TOPSOIL			
Mat3: Mat3 Desc:					
Formation Top I Formation End		0.0 1.0			
Formation End		ft			
<u>Method of Cons</u> <u>Use</u>	truction & Well				
Method Constru Method Constru Method Constru Other Method C	iction Code: iction:	966600612 1 Cable Tool			
Pipe Information	<u>n</u>				
Pipe ID: Casing No: Comment: Alt Name:		11008916 1			
Construction Re	ecord - Casing				
Casing ID:		930747635			
Layer: Material:		1 1			
Open Hole or Ma Depth From:	aterial:	STEEL			
Depth To:		51			
Casing Diamete Casing Diamete	r: r UOM:	5 inch			
Casing Depth U	OM:	ft			
Construction Re	ecord - Screen				
Screen ID:		933385504			
Layer: Slot:		1			
Screen Top Dep Screen End Dep		51 61			
Screen End Dep Screen Material		01			

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen Depth Screen Diame Screen Diame	eter UOM:		ft inch				
Results of We	ell Yield Te	esting					
Pump Test ID:	:		996600612				
Pump Set At:							
Static Level:			8.0				
Final Level Af			10.0				
Recommende	-	epth:					
Pumping Rate			8.0				
Flowing Rate:							
Recommende	d Pump R	ate:	4				
Levels UOM: Rate UOM:			ft GPM				
Water State A	ftor Tost (ode:	2				
Water State A		Joue.	CLOUDY				
Pumping Test			1				
Pumping Dura			8				
Pumping Dura			0				
Flowing:			No				
Water Details							
Water ID:			933947881				
Layer:			1				
Kind Code:			1				
Kind:			FRESH				
Water Found			55.0				
Water Found	Depth UO	М:	ft				
<u>21</u>	1 of 1		ESE/155.4	175.8 / 12.19	lot 1 ON	W	wis
W-# 1D-		6600642			-		
Well ID: Construction	Data	6600613			Data Entry Status: Data Src:	1	
Primary Water		Not Used	I		Date Received:	1/6/1961	
Sec. Water Us		0			Selected Flag:	True	
Final Well Sta		Test Hole)		Abandonment Rec:	1140	
Water Type:					Contractor:	2801	
Casing Materi	ial:				Form Version:	1	
Audit No:					Owner:		
Tag:					Street Name:		
Construction					County:	NIAGARA	
Elevation (m):					Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reli Depth to Bedr					Site Info: Lot:	001	
Well Depth:	OCK.				Concession:	001	
overburden/B	Bedrock [.]				Concession Name:	BF	
Pump Rate:					Easting NAD83:		
Static Water L	.evel:				Northing NAD83:		
Flowing (Y/N):					Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy:					-		
PDF URL (Maj	р):		https://d2khazk8e83	Brdv.cloudfront.ne	t/moe_mapping/downloads	s/2Water/Wells_pdfs/660\6600613.pdf	
Additional De	tail(s) (Ma	<u>p)</u>					
Well Complete	ed Date:		1960/06/24				

Well Completed Date: Year Completed: 1960/06/24 1960

Map Key Numb Reco			Site		DB
Depth (m): Latitude: Longitude: Path:	16.764 43.03497145 -79.12458845 660\6600613	23311			
Bore Hole Information	<u>n</u>				
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date Improvement Locatio Improvement Locatio Source Revision Com Supplier Comment:	n Source: n Method:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	177.428237 17 652776.90 4766405.00 5 margin of error : 100 m - 300 m p5	
<u>Overburden and Bedi</u> <u>Materials Interval</u>	rock_				
Formation ID: Layer: Color: General Color: Mat1: Most Common Materi Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth Formation End Depth Formation End Depth	r: 1.0 n: 15.0				
<u>Overburden and Bedi</u> <u>Materials Interval</u>	rock				
Formation ID: Layer: Color: General Color: Mat1: Most Common Materi Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth	: 0.0				
Formation End Depth Formation End Depth <u>Overburden and Bedu</u> Materials Interval	UOM: ft				
<u>materials interval</u> Formation ID: Layer:	932589383 4				

_

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Di
Color:		3			
General Color	:	BLUE			
Mat1:		05			
Most Common	n Material:	CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top	o Depth:	39.0			
Formation En	d Depth:	50.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inter</u>					
Formation ID:		932589382			
Layer:		3			
Color:		2			
General Color	:	GREY			
Mat1:		05			
Most Common	n Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top	o Depth:	15.0			
Formation En		39.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inter					
Formation ID:		932589384			
Layer:		5			
Color:					
General Color	:				
Mat1:		05			
Most Commor	n Material:	CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation Top	o Depth:	50.0			
Formation En		55.0			
Formation En	d Depth UOM:	ft			
<u>Method of Col Use</u>	nstruction & Well	L			
Method Const	ruction ID:	966600613			
Method Const		1			
Method Const		Cable Tool			
<u>Pipe Informati</u>	<u>ion</u>				
Pipe ID: Casing No: Comment:		11008917 1			

Construction Record - Casing

Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
r Material:	930747636 1			
eter.	5			
eter UOM:	inch			
h UOM:	ft			
1 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR CO. OF CANADA 9127 MONTROSE RD. NIAGARA FALLS CITY ON	СА
	8-2081-86-			
/ear:				
ne.				
	Approved			
Гуре:				
SS:				
Code:				
ription:				
		frocarbons Expr. As	Ch4	
2 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA, LIMITED 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	CA
/ear: pe: -	8-2078-89- 89 10/27/1989 Industrial air Approved			
ss:				
Code:				
ription:				
s: ntrol:	Nethane (Incl. Hyd	frocarbons Expr. As	Ch4	
3 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA (NIAGARA GL 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	СА
/ear: be: Type: ss:	8-2215-92- 92 11/26/1992 Industrial air Approved			
	Records P Material: eter: eter: eter: eter: eter: function: function: ss: Code: ription: ss: code: <	RecordsDistance (m)93074763619307476361193074763611Material:5inch ttinch tt1 of 48ENE/168.9//ear:8-2081-86- 86 6/6/1986pe:Industrial air Approved/ype:SS:Code: ription: s:SCREEN CLEANI Methane (Incl. Hyde No Controls2 of 48ENE/168.9//ear:8-2078-89- 89 10/27/1989pe:Industrial air Approved/ype:SS:Code: ription: s:RELOC. OF SILK Methane (Incl. Hyde No Controls3 of 48ENE/168.9//ear:8-2215-92- 92 11/26/1992fvpr:Scontrols3 of 48ENE/168.9//ear:92 11/26/1992pe:Industrial air Approvedype:Scontrols	Records Distance (m) (m) 930747636 1 Material: 930747636 eter: 5 inch inch 1 of 48 ENE/168.9 1 of 48 SCREEN CLEANING EXHAUST Approved Ype: SCREEN CLEANING EXHAUST S: Code: SCREEN CLEANING EXHAUST Methane (Incl. Hydrocarbons Expr. As No Controls 2 of 48 ENE/168.9 181.3 / 17.69 (ear: 8-2078-89- 89 10/27/1989 ps: Industrial air Approved Ype: SS: Code: ription: s: Methane (Incl. Hydrocarbons Expr. As No Controls 3 of 48 ENE/168.9 181.3 / 17.69 fear: 92 11/26/1992 181.3 / 17.69 fear: 92 11/26/1992 181.3 / 17.69	Records Distance (m) (m) 930747636 1 **Material: 30747636 **Material: ************************************

Мар Кеу	Numbe Record		Elev/Diff (m)	Site	DB
Client Posta Project Desc Contaminan Emission Co	cription: ts:	AIR AUTOCLAVE F Other Organic Com No Controls			
<u>22</u>	4 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA 9127 MONTROSE ROAD; BOX 1019 NIAGARA FALLS ON L2E 6X3	NPCB
Company Co Industry:	ode:	O0300A			
Site Status: Transaction Inspection D		9/7/1990 9/15/1989			
<u>22</u>	5 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA, LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	NPCB
Company Co Industry:	ode:	F0597			
Site Status: Transaction Inspection D		1/29/1996			
<u>Details</u> Label: Serial No.: PCB Type/C Location: Item/State:	ode:	Askarel			
No. of Items Manufacture Status: Contents:		Stored for Disposal 0.00 KG			
Label: Serial No.: PCB Type/C Location: Item/State:		Askarel			
No. of Items. Manufacture Status: Contents:		Stored for Disposal 159.00 KG			
22	6 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR CO. OF CANADA LTD. WELLAND RIVER NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS CITY ON	SPL
Ref No:		4524		Discharger Report:	
Site No: Incident Dt: Year:		5/31/1988		Material Group: Health/Env Conseq: Client Type:	
Incident Cau	ıse:	WASTEWATER DISCHARGE WATERCOURSE	ТО	Sector Type:	
Incident Eve Contaminan Contaminan	t Code:	WATERCOURSE		Agency Involved: Nearest Watercourse: Site Address:	

Map Key	Number Records		Elev/Diff (m)	Site		Di
Contaminant L Contam Limit I Contaminant U	Freq 1:			Site District Office: Site Postal Code: Site Region:		
Environment Ir Nature of Impa	ct:			Site Municipality: Site Lot:	18101	
Receiving Med Receiving Env. MOE Response	:	WATER		Site Conc: Northing:	4767300.00 652600.00	
Dt MOE Arvl oi MOE Reported	n Scn:	5/31/1988		Easting: Site Geo Ref Accu: Site Map Datum:	032000.00	
Ot Document C ncident Reaso		EQUIPMENT FAILURE		SAC Action Class: Source Type:		
Site Name: Site County/Dis Site Geo Ref M ncident Summ Contaminant G	leth: nary:	FORD GLASS - OIL	Y WASH WATER	TO WELLAND RIVER WH	HEN SUMP PUMP FAILED.	
<u>22</u> 7	7 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR CO. C 9127 MONTROSE RI 9127 MONTROSE RC NIAGARA FALLS CI	D NIAGARA GLASS PLANT DAD	SP
Ref No:		85695		Discharger Report:		
ite No: ncident Dt:		5/17/1993		Material Group: Health/Env Conseq:		
ear: ncident Cause ncident Event.		OTHER CAUSE (N.O.S.)		Client Type: Sector Type: Agency Involved:		
Contaminant C Contaminant N Contaminant L Contam Limit I Contaminant U	lame: .imit 1: Freq 1:			Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Postal Code:		
invironment lr lature of Impa Receiving Med	mpact: ict:	POSSIBLE Water course or lake WATER		Site Region: Site Municipality: Site Lot: Site Conc:	18101	
Receiving Env. MOE Response Dt MOE Arvl of	e:			Northing: Easting: Site Geo Ref Accu:	4767300.00 652600.00	
IOE Reported It Document C ncident Reaso	Closed:	5/17/1993 INTENTIONAL/PLANNED		Site Map Datum: SAC Action Class:		
lite Name: lite County/Di	strict:			Source Type:		
Site Geo Ref M ncident Summ Contaminant G	nary:	FORD: OIL SHEEN	TO RIVER.SUSP	PECT SOMEONE DUMPED	0 10 LTR TO DRAIN IN ERROR.	
<u>22</u> 8	8 of 48	ENE/168.9	181.3 / 17.69	FORD MOTOR COMI 9127 MONTROSE RI NIAGARA FALLS CI		СА
ertificate #: pplication Ye	ar:	8-2084-89-000 89				
sue Date: pproval Type	:	4/26/89 Industrial air	ad a			
tatus: pplication Ty lient Name: lient Address lient City:		Application Cancelle	eu -			

Мар Кеу	Numbe Record		Elev/Diff (m)	Site	DE
Client Posta Project Desc Contaminan Emission Co	cription: ts:	SILK SCREEN CLI	EANING PROCESS	3	
<u>22</u>	9 of 48	ENE/168.9	181.3 / 17.69	9127 Montrose Avenue Niagara Falls ON	СА
Certificate # Application Issue Date: Approval Ty Status: Application Client Name Client Adme Client City: Client Posta Project Desta Contaminan Emission Co	Year: pe: Type: : : ess: l Code: cription: ts:	4-058-77-786 00 10/10/00 Municipal & Private Approved Notice E.S. Fox Enterprise 9127 Montrose Rd. Niagara Falls L2E 5S6 Addition of Phosph	es Inc.	g Alum to an existing package sewage treatment plant.	
<u>22</u>	10 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Construction 9127 Montrose Rd. Niagara Falls ON	СА
Certificate #. Application Issue Date: Approval Ty Status: Application Client Name Client Addre Client City: Client Posta Project Desc Contaminan	Year: pe: Type: : : ess: I Code: cription:	0028-4LRSUX 00 7/17/00 Industrial air Approved New Certificate of A E.S. Fox Enterprise 9127 Montrose Rd. Niagara Falls L2E 5S6 This aplication is for duct work and hood	es Inc. or a certificate of ap	proval for emissions to the atmosphere from a dust collector a	and associate
Emission Co	ontrol: 11 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Rd. Niagara Falls Ontario L2E 5S6 Niagara Falls ON	EBR
EBR Registr Ministry Ref Notice Type: Notice Stage Notice Date: Proposal Da	No: : e:	IA00E0797 1381-4JKR3Z Instrument Decision July 24, 2000 May 09, 2000		Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:	
Year: Instrument 1 Off Instrume Posted By: Company Na Site Address Location Oth Proponent N	ent Name: ame: s: her:	2000 (EPA s. 9) - Approv E.S. Fox Enterprise	-	o the natural environment other than water (i.e. Air)	

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DI
Proponent Ac Comment Pei URL:			9127 Montrose Rd.	, Niagara Falls On	tario, L2E 5S6	
Site Location	Details:					
9127 Montrose	e Rd. Niaga	ra Falls C	ntario L2E 5S6 Niaga	ara Falls		
22	12 of 48		ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA, LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	OPC
Year: Site Number: Name Owner: Additional Sit	:	ion:	1995 20392A043			
<u>Details</u> Quantity: Address Site:	:		6.00			
Description:			Number of Drums of	of Ballasts with Hig	h Level PCBs (>1000 ppm)	
Quantity: Address Site:	:		1200.00			
Description:			Weight of Drums of	f Ballasts with High	l Level PCBs (>1000 ppm) kg	
Quantity: Address Site:	:		20.00			
Description:			Number of Capacit	ors with High Leve	I PCBs (>1000 ppm)	
Quantity: Address Site:	:		1.00			
Description:			Number of Drums of	of Other Material w	ith Low Level PCBs (< 1000 ppm) kg	
Quantity: Address Site:	:		150.00			
Description:			Weight of Drums of	f Other Material wit	h Low Level PCBs (< 1000 ppm) kg	
<u>22</u>	13 of 48		ENE/168.9	181.3 / 17.69	FORD MOTOR CO. OF CANADA LTD. NIAGARA GLASS PLANT P.O. BOX 1019, 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	GEN
Generator No):	ON0000	205		PO Box No:	
Status: Approval Yea Contam. Faci MHSW Facilit	ility:	86,87,88	3,89,90		Country: Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Descripti	-	3259	OTHER VEHICLE	ACCES.		
<u>Detail(s)</u>						
Waste Class: Waste Class			251 OIL SKIMMINGS 8	SLUDGES		
Waste Class: Waste Class			145 PAINT/PIGMENT/0	COATING RESIDU	ES	
Waste Class:			213			

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class	Desc:		PETROLEUM DIS	TILLATES		
Waste Class: Waste Class			232 POLYMERIC RES	INS		
<u>22</u>	14 of 48		ENE/168.9	181.3 / 17.69	FORD (OUT OF BUS) 15-110 NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	GEN
Generator No	o:	ON0000	205		PO Box No:	
Status: Approval Yea Contam. Faci		92,93,95	5,96,97		Country: Choice of Contact: Co Admin:	
MHSW Facili		2250			Phone No Admin:	
SIC Code: SIC Descript	tion:	3259	OTHER VEHICLE	ACCES.		
<u>Detail(s)</u>						
Waste Class: Waste Class			112 ACID WASTE - HE	AVY METALS		
Waste Class: Waste Class			122 ALKALINE WASTE	ES - OTHER META	NLS	
Waste Class: Waste Class			133 BRINES, CHLOR-/	ALKALI WASTES		
Waste Class: Waste Class			145 PAINT/PIGMENT/0	COATING RESIDU	IES	
Waste Class: Waste Class			146 OTHER SPECIFIE	D INORGANICS		
Waste Class: Waste Class			148 INORGANIC LABC	RATORY CHEMI	CALS	
Waste Class: Waste Class			212 ALIPHATIC SOLVI	ENTS		
Waste Class: Waste Class			213 PETROLEUM DIS	TILLATES		
Waste Class: Waste Class			221 LIGHT FUELS			
Waste Class: Waste Class			222 HEAVY FUELS			
Waste Class: Waste Class			232 POLYMERIC RES	INS		
Waste Class: Waste Class			233 OTHER POLYMER	RIC WASTES		
Waste Class: Waste Class			241 HALOGENATED S	OLVENTS		
Waste Class: Waste Class			243 PCB'S			
Waste Class: Waste Class			251 OIL SKIMMINGS 8	SLUDGES		

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class			252 WASTE OILS & LU	JBRICANTS		
Waste Class: Waste Class			253 EMULSIFIED OILS	3		
Waste Class: Waste Class			262 DETERGENTS/SC	DAPS		
Waste Class: Waste Class			263 ORGANIC LABOR	ATORY CHEMICA	LS	
Waste Class: Waste Class			267 ORGANIC ACIDS			
Waste Class: Waste Class			270 OTHER SPECIFIE	D ORGANICS		
Waste Class: Waste Class			312 PATHOLOGICAL \	WASTES		
<u>22</u>	15 of 48		ENE/168.9	181.3 / 17.69	FORD MOTOR COMPANY OF CANADA LTD. 15- 110 NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	nrs: llity: ty:	ON000 94 3259	0205 OTHER VEHICLE	ACCES.	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class			145 PAINT/PIGMENT/0	COATING RESIDU	IES	
Waste Class: Waste Class			112 ACID WASTE - HE	AVY METALS		
Waste Class: Waste Class			122 ALKALINE WASTE	ES - OTHER META	ALS	
Waste Class: Waste Class			133 BRINES, CHLOR-/	ALKALI WASTES		
Waste Class: Waste Class			146 OTHER SPECIFIE	D INORGANICS		
Waste Class: Waste Class			148 INORGANIC LABC	RATORY CHEMI	CALS	
Waste Class: Waste Class			212 ALIPHATIC SOLVE	ENTS		
Waste Class: Waste Class			213 PETROLEUM DIS	TILLATES		
Waste Class:	Desc:		221 LIGHT FUELS			

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class			222 HEAVY FUELS			
Waste Class: Waste Class			232 POLYMERIC RES	SINS		
Waste Class: Waste Class	-		233 OTHER POLYME	RIC WASTES		
Waste Class: Waste Class			241 HALOGENATED :	SOLVENTS		
Waste Class: Waste Class			243 PCB'S			
Waste Class: Waste Class			267 ORGANIC ACIDS			
Waste Class: Waste Class			270 OTHER SPECIFIE	D ORGANICS		
Waste Class: Waste Class			312 PATHOLOGICAL	WASTES		
Waste Class: Waste Class			251 OIL SKIMMINGS	& SLUDGES		
Waste Class: Waste Class			252 WASTE OILS & L	UBRICANTS		
Waste Class: Waste Class			253 EMULSIFIED OIL	S		
Waste Class: Waste Class			262 DETERGENTS/S0	DAPS		
Waste Class: Waste Class			263 ORGANIC LABOF	RATORY CHEMICA	ALS	
<u>22</u>	16 of 48		ENE/168.9	181.3 / 17.69	FORD (OUT OF BUS) MOTOR COMPANY NIAGARA GLASS PLANT 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6X3	GEN
Generator No Status:	o:	ON0000	0205		PO Box No: Country:	
Approval Yea Contam. Fac MHSW Facili	ility:	98			Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Descript	-	3259	OTHER VEHICLE	ACCES.		
<u>Detail(s)</u>						
Waste Class: Waste Class			112 ACID WASTE - HI	EAVY METALS		
Waste Class: Waste Class			122 ALKALINE WAST	ES - OTHER MET	ALS	
Waste Class: Waste Class			133 BRINES, CHLOR-	ALKALI WASTES		

Order No: 21081100468

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Map Key	Numbe Record		Elev/Diff) (m)	Site	DB
Waste Class Waste Class		145 PAINT/PIGMENT	/COATING RESID	UES	
Waste Class Waste Class		146 OTHER SPECIFI	ED INORGANICS		
Waste Class Waste Class		148 INORGANIC LAB	ORATORY CHEM	ICALS	
Waste Class Waste Class		212 ALIPHATIC SOLV	/ENTS		
Waste Class Waste Class		213 PETROLEUM DIS	STILLATES		
Waste Class Waste Class		221 LIGHT FUELS			
Waste Class Waste Class		222 HEAVY FUELS			
Waste Class Waste Class		232 POLYMERIC RES	SINS		
Waste Class Waste Class		233 OTHER POLYME	RIC WASTES		
Waste Class Waste Class		241 HALOGENATED	SOLVENTS		
Waste Class Waste Class		243 PCB'S			
Waste Class Waste Class		251 OIL SKIMMINGS	& SLUDGES		
Waste Class Waste Class		252 WASTE OILS & L	UBRICANTS		
Waste Class Waste Class		253 EMULSIFIED OIL	S		
Waste Class Waste Class	_	262 DETERGENTS/S	OAPS		
Waste Class Waste Class		263 ORGANIC LABOI	RATORY CHEMIC	ALS	
Waste Class Waste Class		267 ORGANIC ACIDS	3		
Waste Class Waste Class		270 OTHER SPECIFI	ED ORGANICS		
Waste Class Waste Class		312 PATHOLOGICAL	WASTES		
<u>22</u>	17 of 48	ENE/168.9	181.3 / 17.69	E.S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E	6S5
Generator No Status: Approval Yea Contam. Fac	ars:	ON0214904 96,97		PO Box No: Country: Choice of Contact: Co Admin:	

112

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB				
MHSW Facili SIC Code: SIC Descript	-	4244	SHEET METAL &	DUCT.	Phone No Admin:					
<u>Detail(s)</u>										
Waste Class. Waste Class			145 PAINT/PIGMENT/	COATING RESIDU	JES					
Waste Class. Waste Class			122 ALKALINE WAST	122 ALKALINE WASTES - OTHER METALS						
Waste Class: Waste Class Desc:			148 INORGANIC LAB	ORATORY CHEMI	CALS					
Waste Class: Waste Class Desc:			212 ALIPHATIC SOLV	/ENTS						
Waste Class. Waste Class			221 LIGHT FUELS							
Waste Class. Waste Class			232 POLYMERIC RES	SINS						
Waste Class. Waste Class			241 HALOGENATED	SOLVENTS						
Waste Class. Waste Class			252 WASTE OILS & L	UBRICANTS						
Waste Class: 253 Waste Class Desc: EMULSIFIED OILS										
Waste Class. Waste Class			263 ORGANIC LABORATORY CHEMICALS							
<u>22</u>	18 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	GEN				
Generator No Status:	o:	ON0214	4904		PO Box No:					
Approval Yea Contam. Fac MHSW Facili	ility:	98,99,0	0,01,02,03,04,05,06,	,07,08	Country: Choice of Contact: Co Admin: Phone No Admin:					
SIC Code: SIC Descript	-	4244	SHEET METAL &	DUCT.	Those No Admin.					
<u>Detail(s)</u>										
Waste Class:213Waste Class Desc:PETROLEUM DISTILLATES		STILLATES								
Waste Class. Waste Class			331 WASTE COMPRE	ESSED GASES						
Waste Class. Waste Class			331 WASTE COMPRE	ESSED GASES						
Waste Class. Waste Class			262 DETERGENTS/S	OAPS						
	:									

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class	Desc:	AMINES			
Waste Class: Waste Class		232 POLYMERIC RESII	NS		
Waste Class: Waste Class		241 HALOGENATED SO	OLVENTS		
Waste Class: Waste Class		252 WASTE OILS & LU	BRICANTS		
Waste Class: Waste Class		253 EMULSIFIED OILS			
Waste Class: Waste Class		146 OTHER SPECIFIED	NORGANICS		
Waste Class: Waste Class		263 ORGANIC LABORA	ATORY CHEMICAI	LS	
Waste Class: Waste Class		112 ACID WASTE - HE	AVY METALS		
Waste Class: Waste Class					
Waste Class: 145 Waste Class Desc: PAINT/PIGMENT/COATING				ES	
Waste Class: Waste Class	Waste Class: 148 Waste Class Desc: INORGANIC LABORATORY CHEMICALS				
Waste Class: Waste Class		212 ALIPHATIC SOLVE	NTS		
Waste Class: Waste Class		221 LIGHT FUELS			
<u>22</u>	19 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Road Niagara Falls ON	NCPL
Year: Site Name:		2003			
Facility Owne Discharge Ty Sector: District Area Type of Cont Contaminant Status Repor	/pe: : cern: ::	Industrial Sewage Miscellaneous Niagara C of A Non-Complia Phosphorus	ince		
<u>Details</u>					
Incident Date Exceedance Exceedance	Start Date:	8/14/2003			
Limit/Unit/Fre Quantity Min, Facility Actio	eq: /Max: on:	1 mg/L /annum 1.07/ Other			
Ministry Acti	on:	Assessment Compl	ete - No Further Ac	ction Required	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
<u>22</u>	20 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Road Niagara Falls ON	NCPL
Year:		2003			
Site Name: Facility Own	or:				
Discharge T		Industrial Sewage			
Sector:		Miscellaneous			
District Area		Niagara C of A Non-Complia			
Contaminan		Total Suspended S			
Status Repo	rt:				
<u>Details</u>					
Incident Date		8/14/2003			
Exceedance Exceedance					
Limit/Unit/Fr		25 mg/L /annum			
Quantity Min	/Max:	32/			
Facility Actio		Other Assessment Comp	oto No Eurthor Ac	stion Required	
Ministry Acti	ion:	Assessment Comp	ele - no Fuilhei Al	cuon Requirea	
<u>22</u>	21 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Ltd. 9127 Montrose Rd Niagara Falls ON L2E 6S5	SCT
Established: Plant Size (fi Employment	t²):	01-AUG-34			
<u>Details</u> Description: SIC/NAICS C		Other Plate Work a 332319	nd Fabricated Struc	ctural Product Manufacturing	
Description: SIC/NAICS C		Industrial Building a 236210	and Structure Const	truction	
Description: SIC/NAICS C		Mining and Oil and 333130	Gas Field Machine	ry Manufacturing	
Description: SIC/NAICS C		Other Ornamental a 332329	and Architectural M	etal Product Manufacturing	
Description: SIC/NAICS C		Engineering Service 541330	es		
Description: SIC/NAICS C		Metal Tank (Heavy 332420	Gauge) Manufactu	ring	
<u>22</u>	22 of 48	ENE/168.9	181.3 / 17.69	E S FOX LTD 9127 MONTROSE RD NIAGARA FALLS ON	FSTH
License Issu		1/8/1999			
Tank Status:		Licensed			
Tank Status		August 2007 Private Fuel Outlet			
Operation Ty Facility Type		Gasoline Station - S	Self Serve		
somy type					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Details</u> Status: Year of Insta	llation:	Active			
Corrosion Pr Capacity: Tank Fuel Ty		25000 Liquid Fuel Single	Wall AST - Gasoline	9	
Status: Year of Insta		Active			
Corrosion Pr Capacity: Tank Fuel Ty		15000 Liquid Fuel Single ^v	Wall AST - Diesel		
<u>22</u>	23 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Ave Niagara Falls ON	NCPL
Year: Site Name:		2007			
Facility Owne Discharge Ty Sector:		Municipal Private S Miscellaneous	Sewage		
District Area Type of Cond		Niagara C of A/Permit Non-	Compliance		
Contaminant Status Repor	t:	LOW PH EFFLUE			
<u>Details</u>					
Incident Date Exceedance Exceedance Limit/Unit/Fro Quantity Min Facility Actio Ministry Actio	Start Date: End Date: eq: //Max: on:	1/1/2007 1/1/2007 12/31/2007 6 pH 0/5.1 Ceased Operations Other Abatement A			
22	24 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Ave Niagara Falls ON	NCPL
Year: Site Name:		2007			
Facility Owne Discharge Ty		Municipal Private S	Sewage		
Sector: District Area	:	Miscellaneous Niagara			
Type of Conc Contaminant Status Repor	t:	C of A/Permit Non- PHOSPHORUS	Compliance		
<u>Details</u>					
Incident Date Exceedance Exceedance Limit/Unit/Fri Quantity Min Facility Actio Ministry Acti	Start Date: End Date: eq: //Max: on:	12/31/2007 2/28/2007 12/31/2007 1 mg/L 1.3/3.88 Ceased Operations Other Abatement A			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
<u>22</u>	25 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc. 9127 Montrose Ave Niagara Falls ON	NCPL
Year:		2007			
Site Name:					
Facility Own		Municipal Driveta			
Discharge Ty Sector:	/pe:	Municipal Private S Miscellaneous	ewaye		
District Area	:	Niagara			
Type of Cond		C of A/Permit Non-0			
Contaminant		SUSPENDED SOL	DS		
Status Repol					
<u>Details</u>					
Incident Date		12/31/2007			
Exceedance		1/1/2007			
Exceedance Limit/Unit/Fr		12/31/2007 25 mg/L			
Quantity Min		125.2/125.2			
Facility Actio		Ceased Operations			
Ministry Acti	on:	Other Abatement A	ction Taken		
<u>22</u>	26 of 48	ENE/168.9	181.3 / 17.69	E S FOX LTD 9127 MONTROSE RD NIAGARA FALLS ON	FSTH
License Issu	e Date:	1/8/1999			
Tank Status:		Licensed			
Tank Status		December 2008			
Operation Ty		Private Fuel Outlet Gasoline Station - S	Colf Sonio		
Facility Type	-	Gasonne Station - C	Selve		
Details					
Status:		Active			
Year of Insta Corrosion Pr					
Capacity:	olection.	25000			
Tank Fuel Ty	pe:	Liquid Fuel Single V	Vall AST - Gasoline		
Status:		Active			
Year of Insta					
Corrosion Pr	otection:	15000			
Capacity: Tank Fuel Ty	rpe:	Liquid Fuel Single V	Vall AST - Diesel		
22	27 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterprises Inc.	
_				9127 Montrose Ave Niagara Falls ON	NCPL
Year:		2008			
Site Name:					
Facility Own		Drivete Original			
Discharge Ty Sector:	/pe:	Private Sewage Miscellaneous Com	munal		
District Area	:	Niagara			
Type of Cond		CofA/Permit Non-C	ompliance		
Contaminant		PHOSPHORUS			
Status Repo	rt:				

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Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Details</u>						
Incident Date Exceedance Exceedance Limit/Unit/Fre Quantity Min, Facility Actio Ministry Actio	Start Date: End Date: eq: //Max: on:		2/29/2008 1/1/2008 2/29/2008 1 mg/L 1.3/3.88 Ceased Operations Other Abatement A			
<u>22</u>	28 of 48		ENE/168.9	181.3 / 17.69	E.S. Fox Limited 9127 Montrose Rd Niagara Falls ON	СА
Certificate #: Application \ Issue Date: Approval Typ Status: Application 1 Client Name: Client Name: Client Addres Client City: Client Postal Project Desc Contaminant Emission Co	Year: be: Type: ss: Code: tription: ts:		5161-7SEKCQ 2009 5/31/2009 Air Approved			
<u>22</u>	29 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facili SIC Code: SIC Descripti	ars: ility: ity:	ON0214 2009 238990	904 All Other Specialty	Trade Contractors	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class			112 ACID WASTE - HE	AVY METALS		
Waste Class: Waste Class			122 ALKALINE WASTE	S - OTHER META	LS	
Waste Class: Waste Class			145 PAINT/PIGMENT/C	COATING RESIDU	ES	
Waste Class: Waste Class	-		146 OTHER SPECIFIE	D INORGANICS		
Waste Class: Waste Class			148 INORGANIC LABC	RATORY CHEMIC	CALS	
Waste Class: Waste Class			150 INERT INORGANIO	C WASTES		
Waste Class: Waste Class			212 ALIPHATIC SOLVE	ENTS		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class. Waste Class		213 PETROLEUM DIST	ILLATES		
Waste Class. Waste Class		221 LIGHT FUELS			
Waste Class. Waste Class		252 WASTE OILS & LUE	BRICANTS		
Waste Class. Waste Class		232 POLYMERIC RESIN	۹S		
Waste Class. Waste Class		241 HALOGENATED SC	DLVENTS		
Waste Class. Waste Class		253 EMULSIFIED OILS			
Waste Class. Waste Class		262 DETERGENTS/SOA	APS		
Waste Class. Waste Class		263 ORGANIC LABORA	TORY CHEMICA	LS	
Waste Class. Waste Class		331 WASTE COMPRES	SED GASES		
Waste Class. Waste Class		268 AMINES			
<u>22</u>	30 of 48	ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON	GEN
Generator No	o: ON0214	904		PO Box No:	
Status: Approval Yea				Country: Choice of Contact:	
Contam. Fac MHSW Facili				Co Admin: Phone No Admin:	
SIC Code: SIC Descript	238990	All Other Specialty T	rade Contractors		
<u>Detail(s)</u>					
Waste Class. Waste Class		231 LATEX WASTES			
Waste Class. Waste Class		212 ALIPHATIC SOLVE	NTS		
Waste Class. Waste Class		112 ACID WASTE - HEA	VY METALS		
Waste Class. Waste Class	=	122 ALKALINE WASTES	S - OTHER META	LS	
Waste Class. Waste Class		148 INORGANIC LABOF	RATORY CHEMIC	CALS	
Waste Class Waste Class		253 EMULSIFIED OILS			
Waste Class	:	221			

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB	
Waste Class	Desc:		LIGHT FUELS				
Waste Class: Waste Class	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES		
Waste Class: Waste Class	Desc:		331 WASTE COMPRES	SED GASES			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUE	BRICANTS			
Waste Class: Waste Class	Desc:		150 INERT INORGANIC	WASTES			
Waste Class: Waste Class	Desc:		146 OTHER SPECIFIED	INORGANICS			
Waste Class: Waste Class	Desc:		268 AMINES				
Waste Class: Waste Class	Desc:		232 POLYMERIC RESIN	١S			
Waste Class: Waste Class	Desc:		262 DETERGENTS/SOA	APS			
Waste Class: Waste Class	Desc:		241 HALOGENATED SC	DLVENTS			
Waste Class: Waste Class Desc:			263 ORGANIC LABORATORY CHEMICALS				
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES			
<u>22</u>	31 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON	GEN	
Generator No	:	ON0214	904		PO Box No:		
Status: Approval Yea	rs:	2011			Country: Choice of Contact:		
Contam. Faci MHSW Facilit					Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	on:	238990	All Other Specialty 7	Frade Contractors			
<u>Detail(s)</u>							
Waste Class: Waste Class			221 LIGHT FUELS				
Waste Class: Waste Class			231 LATEX WASTES				
Waste Class: Waste Class			252 WASTE OILS & LUE	BRICANTS			
Waste Class: Waste Class			212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class			253 EMULSIFIED OILS				

	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Waste Clas Waste Clas			148 INORGANIC LABC		CALS		
Waste Clas			146				
Waste Clas			OTHER SPECIFIE	D INORGANICS			
Waste Clas	ss:		263				
Waste Clas	ss Desc:		ORGANIC LABOR	ATORY CHEMICA	LS		
Waste Clas	ss:		331				
Waste Clas	ss Desc:		WASTE COMPRES	SSED GASES			
Waste Clas	ss:		262				
Waste Clas	ss Desc:		DETERGENTS/SC	DAPS			
Waste Clas	ss:		112				
Waste Clas	ss Desc:		ACID WASTE - HE	AVY METALS			
Waste Clas	ss:		268				
Waste Clas	ss Desc:		AMINES				
Waste Clas	ss:		122				
Waste Clas	ss Desc:		ALKALINE WASTE	S - OTHER META	LS		
Waste Clas	is:		150				
Waste Clas			INERT INORGANI	C WASTES			
Waste Clas	s:		232				
Waste Clas			POLYMERIC RESI	INS			
Waste Clas	s.		213				
Waste Clas			PETROLEUM DIST	TILLATES			
Waste Clas	ss:		241				
			241 HALOGENATED S	OLVENTS			
Waste Clas	ss Desc:		= : :	OLVENTS			
Waste Clas Waste Clas	ss Desc: ss:		HALOGENATED S		ES		
Waste Clas Waste Clas	ss Desc: ss:		HALOGENATED S		ES <i>E.S. FOX LTD</i> **		EST
Waste Clas Waste Clas Waste Clas	ss Desc: ss: ss Desc:		HALOGENATED S 145 PAINT/PIGMENT/C	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C	0 PO BOX 1010 NIAGARA CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA	FST
Waste Clas Waste Clas Waste Clas <u>22</u>	as Desc: as: as Desc: 32 of 48	1148586	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i>	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA	CA 9127 MONTROSE RD PO	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status:	ss Desc: ss: ss Desc: 32 of 48 o:	1148586 Active	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i>	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON O BOX 1010 NIAGARA ON Manufacturer: Serial No:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL	FST
Waste Clas Waste Clas Waste Clas 22 Instance N Status: Cont Name	ss Desc: ss: ss Desc: 32 of 48 o: e:	Active	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i> 9	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON 0 BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance T	ss Desc: ss: ss Desc: 32 of 48 o: e:	Active FS Liquid	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i> 9 9	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL NULL 1	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item:	ss Desc: ss: ss Desc: 32 of 48 o: o: s: ype:	Active FS Liquid FS LIQU	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i> 9	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON 0 BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Item Descr	ss Desc: ss: ss Desc: 32 of 48 o: o: ype: iption:	Active FS Liquid FS LIQU FS Liquid	HALOGENATED S 145 PAINT/PIGMENT/C <i>ENE/168.9</i> 9 9 d Fuel Tank ID FUEL TANK	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date	ss Desc: ss: as Desc: 32 of 48 o: ype: ype: iption:	Active FS Liquid FS LIQU FS Liquid Single W 4/16/199	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel	FST
Waste Class Waste Class Waste Class Waste Class <u>22</u> Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date Install Yeal	ss Desc: ss: as Desc: 32 of 48 o: ype: ype: iption: s: r:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL	FST
Waste Class Waste Class Waste Class Waste Class <u>22</u> Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date Install Years Years in Se	ss Desc: ss: as Desc: 32 of 48 o: ype: ype: iption: s: r:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date Install Date Install Years Years in Se Model:	ss Desc: ss: ss Desc: 32 of 48 o: ype: iption: s: r: ervice:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Instance Ty Item:	ss Desc: ss: ss Desc: 32 of 48 o: ype: iption: s: r: ervice:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Instance Ty Item: Instan Descr Tank Type: Install Date Install Yea Install Yea Install Years in Se Model: Description Capacity:	ss Desc: ss: ss Desc: 32 of 48 o: ype: iption: : : : : : : : : : : : : :	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL 15000	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON O BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Fuel Type3: Piping Steel: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL NULL NULL	FST
Waste Clas Waste Clas Waste Clas <u>22</u> Instance N Status: Cont Name Instance Ty Item: Cont Name Install Date Install Date Install Year Install Year Years in Se Model: Description Capacity: Tank Matei	ss Desc: ss: ss Desc: 32 of 48 o: ype: iption: r: ervice: n: rial:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground:	CA 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL	FST
Waste Clas Waste Clas Waste Clas Waste Clas 22 22 Instance N Status: Cont Name Instance Ty Item: Cont Name Install Date Install Year Install Year Years in Se Model: Description Capacity: Tank Mater Corrosion	ss Desc: ss: ss Desc: 32 of 48 0: ype: iption: s: r: ervice: n: rial: Protect:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL 15000 Steel	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank /all Horizontal AST	COATING RESIDU	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Steel: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL NULL NULL	FST
Waste Class Waste Class Waste Class Waste Class Waste Class 22 Instance N Status: Cont Name Instalus Item: Item Description Capacity: Tank Mater Corrosion Overfill Proc Facility Typ	ss Desc: as: as: Desc: 32 of 48 0: ype: iption: e: protect: protect: pe: protect: pe: pe: pe: protect: pe: pe: pe: pe: pe: pe: pe: pe	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL 15000 Steel	HALOGENATED S 145 PAINT/PIGMENT/O ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank Yall Horizontal AST 7 FS Liquid Fuel Tan	181.3 / 17.69	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Num Underground: Panam Related: Panam Venue:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL NULL NULL	FST
Waste Class Waste Class Waste Class Waste Class Waste Class 22 Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date Install Pase Install Year Stall Year Model: Description Capacity: Tank Mater Corrosion Overfill Proc Facility Typ Parent Fac	ss Desc: as: as: Desc: 32 of 48 0: as: ype: iption: as: protect: protect: pervice: ility Type:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL 15000 Steel	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank 'all Horizontal AST 7 FS Liquid Fuel Tan Fuels Safety Privat	k e Fuel Outlet - Self	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Num Underground: Panam Related: Panam Venue:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL NULL NULL	FST
Instance N Status: Cont Name Instance Ty Item: Item Descr Tank Type: Install Date Install Years Install Years Install Years Install Years Model: Description Capacity: Tank Mater Corrosion Overfill Pro Facility Typ Parent Fac Facility Loo	ss Desc: as: as: Desc: 32 of 48 0: as: ype: iption: as: protect: protect: pervice: ility Type:	Active FS Liquic FS LIQU FS Liquic Single W 4/16/199 NULL 14 NULL 15000 Steel Coating	HALOGENATED S 145 PAINT/PIGMENT/C ENE/168.9 9 9 d Fuel Tank ID FUEL TANK d Fuel Tank 'all Horizontal AST 7 FS Liquid Fuel Tan Fuels Safety Privat 9127 MONTROSE	k RD PO BOX 1010	E.S. FOX LTD ** 9127 MONTROSE RE FALLS L2E 7J9 ON C BOX 1010 NIAGARA ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Num Underground: Panam Related: Panam Venue:	A 9127 MONTROSE RD PO FALLS L2E 7J9 ON CA NULL NULL 1 EA Diesel NULL NULL NULL	FST

B121 MONINGSE RD POOX 100 MIRAGAA FALLS L2E 7.9 ON CA 9127 MONTINGSE RD PO BOX 1010 MIAGARA FALLS L2E 7.9 ON CA ON Instance No: 11485849 Manufacturer: NULL Status: Active Status: Active Status: Active Status: Active UIC Standard: NULL Instance Type: FS Liquid Fuel Tank Instance Type: FS Liquid Fuel Tank Instatu Post: FS Liquid Fuel Tank Item: FS Liquid Fuel Tank Tank Type: Stage Wall Horizontal AST Fuel Type2: NULL Instatu Post: NULL Piping Balvanized: MULL Model: NULL Piping Steel: Piping Steel: Piping Steel: Piping Underground: Corrosion Protect: Coaling Param Related: NULL Overfill Protect: Steel Staty Private Fuel Outlet - Self Serve Facility Location: 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7.19 ON CA Device Installed Location: 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7.19 ON CA Device Installed Location: 9127	, ,	mber of cords	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Liquid Fuel Tank Details Overfill Protection: NULL Owner Account Name: E.S. FOX LTD ** 22 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** FS 23 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** FS 23 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** FS 24 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** FS 11485849 Manufacturer: NULL Status: NULL	<u>Fuel Storage Tank</u>	Details					
Overfill Protection: NULL Overfill Protection: NULL 22 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** 32 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** 9127 MONTROSE RD PO BOX 1010 NIAGARA PO BOX 1010 NIAGARA PO BOX 1010 NIAGARA FALLS LZ EZ J9 ON CA 300 NO NO FS Instance No: 11485849 Manufacturer: NULL Serial No: NULL Cont Name: UC Standard: NULL Cuantity: 1 Instance No: 11485849 Manufacturer: NULL Cuantity: 1 Instance Type: FS Liquid Fuel Tank Unit of Messure: EA A Instance Vice: FS Liquid Fuel Tank Unit of Messure: EA A Tank Type: FS Liquid Fuel Tank Unit of Messure: EA A Tank Type: Single Wall Storizontal AST Fuel Type2: NULL NULL Description: FS Liquid Fuel Tank Piping Steel: NULL NULL Description: FS Liquid Fuel Tank Piping Mesel: NULL NULL Description: FS Liquid Fuel Tank	Owner Account Na	ame:	E.S. FOX LTD **				
Owner Account Name: E.S. FOX LTD ** 22 33 of 48 ENE/168.9 181.3 / 17.69 E.S. FOX LTD ** 9127 MONTROSE RD PO BOX 1010 NIAGARA PALLS L2 73 00 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 900 NOA 900 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 900 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 900 NCA 9127 MONTROSE FD PO BOX 1010 NIAGARA FALLS L2 73 00 NCA 900	Liquid Fuel Tank D	<u>Details</u>					
and the second secon			E.S. FOX LTD **				
Status: Active Serial No: NULL Cont Name: Uls Standard: NULL Cont Name: FS Liquid Fuel Tank Quantity: 1 Item: FS Liquid Fuel Tank Unit of Measure: EA Item Description: FS Liquid Fuel Tank Unit of Measure: EA Install Date: 4/16/1997 Fuel Type: Gasoline Install Vear: NULL Piping Steel: NULL Vears in Service: 14 Piping Gavanized: Model: NULL Tank Single Wall St: Description: Capacity: 25000 Num Underground: Capacity: Carosion Protect: Coaling Panam Related: NULL Corrosion Protect: Safety Private Fuel Outlet - Self Serve NULL Facility Type: FS Liquid Fuel Tank Facility Type: FS Liquid Fuel Tank Parant Pacility Type: FS Liquid Fuel Tank Panam Related: NULL Corrosion Protect: Coaling Panam Venue: NULL Corrosion Protect: Safety Private Fuel Outlet - Self Serve Facility Location: 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA Evide Isorage Tank Details Verfill Protection: 9127 MONTROSE RD PO BOX 1010 NIAGARA FALLS L2E 7J9 ON CA <t< td=""><td><u>22</u> 33 o</td><td>f 48</td><td>ENE/168.9</td><td>181.3 / 17.69</td><td>9127 MONTROSE RD FALLS L2E 7J9 ON C BOX 1010 NIAGARA</td><td>A 9127 MONTROSE RD PO</td><td>FST</td></t<>	<u>22</u> 33 o	f 48	ENE/168.9	181.3 / 17.69	9127 MONTROSE RD FALLS L2E 7J9 ON C BOX 1010 NIAGARA	A 9127 MONTROSE RD PO	FST
Owner Account Name: E.S. FOX LTD ** Liquid Fuel Tank Details Overfill Protection: NULL Owner Account Name: E.S. FOX LTD ** 22 34 of 48 ENE/168.9 181.3 / 17.69 E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5 GE Generator No: ON0214904 PO Box No: Country: Approval Years: Country: 2012 Choice of Contact: Co Admin: Phone No Admin: MHSW Facility: Sic Code: 238990	Status: Cont Name: Instance Type: Item: Item Description: Tank Type: Install Date: Install Year: Years in Service: Model: Description: Capacity: Tank Material: Corrosion Protect: Overfill Protect: Facility Type: Parent Facility Typ Facility Location:	Active FS Liqui FS Liqui Single V 4/16/199 NULL 14 NULL 25000 Steel Coating	id Fuel Tank JID FUEL TANK id Fuel Tank Vall Horizontal AST 97 FS Liquid Fuel Tar Fuels Safety Privat 9127 MONTROSE	te Fuel Outlet - Self RD PO BOX 1010	Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue: Serve NIAGARA FALLS L2E 7J9	NULL 1 EA Gasoline NULL NULL NULL ON CA	
Overfill Protection: Owner Account Name: NULL E.S. FOX LTD ** 22 34 of 48 ENE/168.9 181.3 / 17.69 E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5 GE Generator No: ON0214904 PO Box No: Country: Approval Years: Country: 2012 Choice of Contact: Co Admin: MHSW Facility: Country: Phone No Admin: MHSW Facility: 238990			E.S. FOX LTD **				
Owner Account Name: E.S. FOX LTD ** 22 34 of 48 ENE/168.9 181.3 / 17.69 E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5 GE Generator No: ON0214904 PO Box No: Country: Generator No: Country: ON0214904 Country: Choice of Contact: Co Admin: Generator No: Country: Country: Choice of Contact: Co Admin: Country: Phone No Admin: Country:	Liquid Fuel Tank D	Details					
9127 MONTROSE ROAD GE NIAGARA FALLS ON L2E 6S5 NIAGARA FALLS ON L2E 6S5 Generator No: ON0214904 PO Box No: Country: Approval Years: 2012 Contam. Facility: Co Admin: MHSW Facility: Phone No Admin: SIC Code: 238990		-	E.S. FOX LTD **				
Status: Country: Approval Years: 2012 Contam. Facility: Choice of Contact: MHSW Facility: Co Admin: SIC Code: 238990	<u>22</u> 34 o	f 48	ENE/168.9	181.3 / 17.69	9127 MONTROSE RO		GEN
SIC Code: 238990	Status: Approval Years: Contam. Facility:		4904		Country: Choice of Contact: Co Admin:		
	SIC Code: SIC Description:	238990		Trade Contractors			

<u>Detail(s)</u>

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class			263 ORGANIC LABOR	ATORY CHEMICA	ALS	
Waste Class: Waste Class			150 INERT INORGANI	C WASTES		
Waste Class: Waste Class			232 POLYMERIC RES	INS		
Waste Class: Waste Class			253 EMULSIFIED OILS	3		
Waste Class: Waste Class			213 PETROLEUM DIS	TILLATES		
Waste Class: Waste Class			262 DETERGENTS/SC	DAPS		
Waste Class: Waste Class			231 LATEX WASTES			
Waste Class: Waste Class			146 OTHER SPECIFIE	D INORGANICS		
Waste Class: Waste Class			241 HALOGENATED S	OLVENTS		
Waste Class: Waste Class			268 AMINES			
Waste Class: Waste Class			252 WASTE OILS & LU	JBRICANTS		
Waste Class: Waste Class			145 PAINT/PIGMENT/0	COATING RESIDU	JES	
Waste Class: Waste Class			331 WASTE COMPRE	SSED GASES		
Waste Class: Waste Class			122 ALKALINE WASTE	ES - OTHER MET	ALS	
Waste Class: Waste Class			148 INORGANIC LABC	DRATORY CHEMI	CALS	
Waste Class: Waste Class			112 ACID WASTE - HE	AVY METALS		
Waste Class: Waste Class			212 ALIPHATIC SOLVI	ENTS		
Waste Class: Waste Class			221 LIGHT FUELS			
<u>22</u>	35 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON	GEN
Generator No Status:	o:	ON0214	904		PO Box No: Country:	
Approval Yea Contam. Fac MHSW Facili	ility:	2013			Country. Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description	-	238990	ALL OTHER SPEC	CIALTY TRADE CO		

Detail(s)

				NIAGARA FALLS ON	
<u>22</u>	36 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Limited 9127 Montrose Road Niagara Falls, Regional Municipality of Niagara L2E 7J9 CITY OF	EBR
Waste Clas Waste Clas		253 EMULSIFIED O	ILS		
Waste Clas Waste Clas		146 OTHER SPECIF	FIED INORGANICS		
Waste Clas Waste Clas		212 ALIPHATIC SOI	LVENTS		
Waste Clas Waste Clas		262 DETERGENTS/	SOAPS		
Waste Clas Waste Clas		331 WASTE COMPF	RESSED GASES		
Waste Clas Waste Clas		148 INORGANIC LA	BORATORY CHEMIC	ALS	
Waste Clas Waste Clas		252 WASTE OILS &	LUBRICANTS		
Waste Clas Waste Clas		232 POLYMERIC RI	ESINS		
Waste Clas Waste Clas		231 LATEX WASTE	S		
Waste Clas Waste Clas		263 ORGANIC LABO	ORATORY CHEMICAL	_S	
Waste Clas Waste Clas		112 ACID WASTE -	HEAVY METALS		
Waste Clas Waste Clas		221 LIGHT FUELS			
Waste Clas Waste Clas		268 AMINES			
Waste Clas Waste Clas		122 ALKALINE WAS	STES - OTHER METAI	_S	
Waste Clas Waste Clas		145 PAINT/PIGMEN	IT/COATING RESIDUE	ES	
Waste Clas Waste Clas		213 PETROLEUM D	DISTILLATES		
Waste Clas Waste Clas		150 INERT INORGA	NIC WASTES		
Waste Clas Waste Clas		241 HALOGENATEI	D SOLVENTS		

Мар Кеу	Number o Records	f Direction/ Distance (m)	Elev/Diff (m)	Site	
Ministry Ref I	Vo: 1	281-9P2KU8		Exception Posted:	
Notice Type:	Ir	nstrument Decision		Section:	
Notice Stage:				Act 1:	
Notice Date:	C	October 06, 2015		Act 2:	
Proposal Date	e: N	lovember 20, 2014		Site Location Map:	
Year:	2	014			
Instrument Ty	/pe:	(EPA Part II.1-air) -	Environmental C	compliance Approval (project type: air)	
Off Instrumer Posted By:	nt Name:				
Company Na	me:	E.S. Fox Limited			
Site Address: Location Othe Proponent Na Proponent Ad Comment Per URL:	er: ame: Idress:	9127 Montrose Roa	id, Niagara Falls	Ontario, Canada L2E 7J9	

Site Location Details:

9127 Montrose Road Niagara Falls, Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS

22 37 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Limited 9127 Montrose Road Niagara Falls Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS ON	EBR
EBR Registry No:	012-4672		Decision Posted:	
Ministry Ref No:	7256-9PNJ2W		Exception Posted:	
Notice Type:	Instrument Decision		Section:	
Notice Stage:			Act 1:	
Notice Date:	April 25, 2016		Act 2:	
Proposal Date:	July 17, 2015		Site Location Map:	
Year:	2015			
Instrument Type:	(EPA Part II.1-air) -	Environmental Cor	npliance Approval (project type: air)	
Off Instrument Name:				
Posted By:				
Company Name:	E.S. Fox Limited			
Site Address:				
Location Other:				
Proponent Name: Proponent Address:	0127 Montroso Poo	d Niagara Falls Or	ntario, Canada L2E 7J9	
Comment Period:	9127 MONTOSE ROA	u, Mayara Falis Or	Italio, Callada Eze 755	
URL:				
URL: Site Location Details:				

9127 Montrose Road Niagara Falls Regional Municipality of Niagara L2E 7J9 CITY OF NIAGARA FALLS

<u>22</u> 3	8 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Limited 9127 Montrose R Niagara Falls ON	-	ECA
Approval No: Approval Date:		9177-9ZJJFQ 2015-09-28		MOE District: City:	Niagara	
Status:		Approved		Longitude:	-79.067856	
Record Type:		ECA		Latitude:	43.10657	
Link Source:		IDS		Geometry X:		
SWP Area Nam Approval Type:		Niagara Peninsula ECA-AIR		Geometry Y:		

	Numbe Record		Elev/Diff (m)	Site		Di
Project Tyj Business I Address: Full Addre Full PDF L	lame: ss:	AIR E.S. Fox Limited 9127 Montrose Rd https://www.access		jov.on.ca/instruments/1:	281-9P2KU8-14.pdf	
<u>22</u>	39 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Limited 9127 Montrose Ro Niagara Falls ON		ECA
Approval N Approval L Status: Record Tyj Link Sourc SWP Area Approval 1 Project Tyj Business I Address: Full Addre. Full PDF L	Date: De: e: Name: Type: De: Name: SS:	1032-A8XP6J 2016-04-18 Approved ECA IDS Niagara Peninsula ECA-AIR AIR E.S. Fox Limited 9127 Montrose Rd https://www.access		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Niagara -79.067856 43.10657 256-9PNJ2W-14.pdf	
<u>22</u>	40 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterpris 9127 Montrose Av Niagara Falls ON	venue	ECA
Approval N Approval L Status: Record Tyj Link Sourc SWP Area Approval 1 Project Tyj Business I Address: Full Addre. Full PDF L	Date: pe: e: Name: Type: pe: Name: ss:	4-058-77-786 2000-10-10 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-MUNICIPAL AND E.S. Fox Enterprise 9127 Montrose Ave https://www.access	PRIVATE SEWAGI es Inc. enue		Niagara -79.067856 43.10657 004-4L9JVH-14.pdf	
<u>22</u>	41 of 48	ENE/168.9	181.3 / 17.69	E.S. Fox Enterpris 9127 Montrose Ro Niagara Falls ON	1.	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link:		0028-4LRSUX 2000-07-17 Revoked and/or Replaced		MOE District: City: Longitude:	Niagara -79.067856	
Approval L Status: Record Tyj Link Sourc SWP Area Approval 1 Project Tyj Business I Address: Full Addre	e: Name: 'ype: be: Vame: SS:	ECA IDS Niagara Peninsula ECA-AIR AIR E.S. Fox Enterprise 9127 Montrose Rd https://www.access		Latitude: Geometry X: Geometry Y: gov.on.ca/instruments/1:	43.10657 381-4JKR3Z-14.pdf	

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		D
		Niagara Falls ON L2E 7J9					
Approval No: Approval Date Status: Record Type: Link Source: SWP Area Nai Approval Type Project Type: Business Nain Address: Full Address: Full PDF Link	me: e: ne:	ECA IDS	-31 I and/or Replaced Peninsula ECA-AIR AIR E.S. Fox Limited 9127 Montrose Ro		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: gov.on.ca/instruments/451:	Niagara -79.067856 43.10657 2-7RCPL9-14.pdf	
22	43 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE R NIAGARA FALLS O	-	GEN
Generator No. Status: Approval Yea Contam. Facility MHSW Facility SIC Code: SIC Descriptic	rs: lity: y:	ON02149 2015 No No 238990		CIALTY TRADE CO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: ONTRACTORS	Canada CO_ADMIN Cory Young 905-354-3700 Ext.260	
Detail(s)							
Waste Class: Waste Class I	Desc:		252 WASTE OILS & L	UBRICANTS			
Vaste Class: Vaste Class I	Desc:		212 ALIPHATIC SOLV	ENTS			
Vaste Class: Vaste Class I	Desc:		112 ACID WASTE - HI	EAVY METALS			
Vaste Class: Vaste Class I	Desc:		221 LIGHT FUELS				
Vaste Class: Vaste Class I	Desc:		232 POLYMERIC RES	SINS			
Vaste Class: Vaste Class I	Desc:		231 LATEX WASTES				
Vaste Class: Vaste Class I	Desc:		148 INORGANIC LAB	ORATORY CHEMI	CALS		
Vaste Class: Vaste Class I	Desc:		122 ALKALINE WAST	ES - OTHER MET	ALS		
Vaste Class: Vaste Class I	Desc:		145 PAINT/PIGMENT/	COATING RESIDU	JES		
Vaste Class: Vaste Class I	Desc:		331 WASTE COMPRE	SSED GASES			
Vaste Class:			253				

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Waste Class: Waste Class I			241 HALOGENATED SO	OLVENTS			
Waste Class:			262				
Waste Class	Desc:		DETERGENTS/SO/	APS			
Waste Class: Waste Class			146 OTHER SPECIFIED	NORGANICS			
Waste Class: Waste Class I			263 ORGANIC LABORA	TORY CHEMICA	ALS		
Waste Class: Waste Class I			213 PETROLEUM DIST	ILLATES			
Waste Class: Waste Class I			268 AMINES				
Waste Class: Waste Class I			150 INERT INORGANIC	WASTES			
<u>22</u>	44 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE R NIAGARA FALLS O		GEN
Generator No		ON0214	904		PO Box No:		
Status: Approval Yea	rs:	2016			Country: Choice of Contact:	Canada CO_ADMIN	
Contam. Faci MHSW Facilit		No No			Co Admin: Phone No Admin:	Cory Young 905-354-3700 Ext.260	
SIC Code: SIC Descripti	•	238990	ALL OTHER SPECI	ALTY TRADE CO			
<u>Detail(s)</u>							
Waste Class: Waste Class I			263 ORGANIC LABORA	TORY CHEMICA	ALS		
Waste Class: Waste Class I			150 INERT INORGANIC	WASTES			
Waste Class: Waste Class I			212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class I			253 EMULSIFIED OILS				
Waste Class: Waste Class			252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class I			148 INORGANIC LABOI	RATORY CHEMI	CALS		
Waste Class: Waste Class I			268 AMINES				
Waste Class: Waste Class I			112 ACID WASTE - HEA	AVY METALS			
Waste Class: Waste Class I			145 PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Class:			232				

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class. Waste Class			241 HALOGENATED S	OLVENTS			
Waste Class. Waste Class			262 DETERGENTS/SC	APS			
Waste Class. Waste Class			331 WASTE COMPRES	SSED GASES			
Waste Class. Waste Class			231 LATEX WASTES				
Waste Class. Waste Class			221 LIGHT FUELS				
Waste Class. Waste Class			213 PETROLEUM DIS	ΓILLATES			
Waste Class. Waste Class			122 ALKALINE WASTE	S - OTHER META	LS		
Waste Class. Waste Class			146 OTHER SPECIFIE	D INORGANICS			
<u>22</u>	45 of 48		ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE R NIAGARA FALLS OI		GEN
Generator No Status: Approval Yea Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: ility: ty:	ON0214 2014 No No 238990	904 ALL OTHER SPEC	IALTY TRADE CC	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: DNTRACTORS	Canada CO_ADMIN Cory Young 905-354-3700 Ext.260	
<u>Detail(s)</u>							
Waste Class. Waste Class			268 AMINES				
Waste Class. Waste Class			252 WASTE OILS & LU	IBRICANTS			
Waste Class. Waste Class			148 INORGANIC LABC	RATORY CHEMIC	CALS		
Waste Class. Waste Class			145 PAINT/PIGMENT/C	COATING RESIDU	ES		
Waste Class. Waste Class			331 WASTE COMPRES	SSED GASES			
Waste Class. Waste Class			112 ACID WASTE - HE	AVY METALS			
Waste Class. Waste Class			213 PETROLEUM DIS ⁻	TILLATES			
Waste Class. Waste Class			221 LIGHT FUELS				
Waste Class	;		263				

Map Key	Number Records		Elev/Diff (m)	Site		DE	
Vaste Class	Desc:	ORGANIC LABOR	ATORY CHEMICA	LS			
<i>Waste Class:</i> <i>Waste Class</i>		146 OTHER SPECIFIE	D INORGANICS				
Vaste Class: Vaste Class		150 INERT INORGANI	C WASTES				
Vaste Class: Vaste Class		231 LATEX WASTES					
Vaste Class: Vaste Class		212 ALIPHATIC SOLVE	ENTS				
Vaste Class: Vaste Class		232 POLYMERIC RES	INS				
Vaste Class: Vaste Class		253 EMULSIFIED OILS	3				
Vaste Class: Vaste Class		122 ALKALINE WASTE	S - OTHER META	LS			
Vaste Class: Vaste Class		262 DETERGENTS/SC	DAPS				
Vaste Class: Vaste Class		241 HALOGENATED S	OLVENTS				
<u>22</u>	46 of 48	ENE/168.9	181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE RO NIAGARA FALLS ON		GEN	
Generator No Status: Approval Yea Contam. Facili SIC Code: SIC Code:	ars: ility: ty:	ON0214904 Registered As of Dec 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
Detail(s)							
Vaste Class: Vaste Class		112 C Acid solutions - cor	ntaining heavy met	als			
Vaste Class: Vaste Class		122 C Alkaline slutions - c	containing other me	etals and non-metals (not c	yanide)		
Vaste Class: Vaste Class		145 I Wastes from the us	se of pigments, coa	atings and paints			
Vaste Class: Vaste Class		145 L Wastes from the us	145 L Wastes from the use of pigments, coatings and paints				
Vaste Class: Vaste Class		148 I Misc. wastes and ir	norganic chemicals	3			
Vaste Class: Vaste Class		150 L Inert organic waste	s				
Naste Class:		212 L					

Map Key	Numbe Record			Elev/Diff (m)	Site		D
Naste Class:	:	221 I					
Waste Class	Desc:	Light fuels					
Waste Class:		231 L					
Waste Class		Latex wastes					
Waste Class:		232 C					
Waste Class.		Polymeric resir	าร				
Waste Class:		241 H					
Naste Class. Naste Class			olver	its and residues			
		0544					
Naste Class: Naste Class		251 L Waste oils/sluc	laes	(petroleum based)			
	Desc.	Waste 013/314	iges	(petroleum based)			
Waste Class:		252 L					
Waste Class	Desc:	Waste crankca	ise oi	is and lubricants			
Waste Class:	:	262 L					
Waste Class	Desc:	Detergents and	d soa	ps			
Naste Class:		263 B					
Waste Class		Misc. waste or	ganic	chemicals			
Nacto Olana	_	262					
Naste Class: Naste Class		263 I Misc. waste or	ganic	chemicals			
			0				
Naste Class:		268 C Amines					
Waste Class	Desc:	Amines					
Waste Class: Waste Class		331 I Waste compre	ssed	gases including cy	linders		
	2000.			gaooo			
<u>22</u>	47 of 48	ENE/168.9		181.3 / 17.69	E. S. FOX LIMITED 9127 MONTROSE F NIAGARA FALLS C		GEN
• · ·		010044004					
Generator No Status:		ON0214904 Registered			PO Box No: Country:	Canada	
Approval Yea Contam. Fac		As of Jul 2020			Choice of Contact: Co Admin:		
MHSW Facili					Phone No Admin:		
SIC Code:	-						
SIC Descript	ion:						
Detail(s)							
Waste Class:		262 L					
Waste Class		Detergents and	d soa	ps			
Waste Class:		241 H					
Waste Class			olver	nts and residues			
Naste Class:		231 L					
Waste Class. Waste Class		Latex wastes					
Naste Class:		115					
Naste Class: Naste Class		145 I Wastes from th	ne us	e of pigments, coat	ings and paints		
					- •		
Naste Class: Naste Class		145 L Wastes from th	ne us	e of pigments, coat	ings and paints		
Waste Class:	:	263 I					

Waste Class: Waste Class Desc:

131

Misc. waste organic chemicals

Мар Кеу	Numbe Record			Site	DB
Waste Class: Waste Class		148 I Misc. wastes a	and inorganic chemi	cals	
Waste Class: Waste Class		150 L Inert organic v	wastes		
Waste Class: Waste Class		268 C Amines			
Waste Class: Waste Class		331 I Waste compre	essed gases includir	ng cylinders	
Waste Class: Waste Class		221 I Light fuels			
Waste Class: Waste Class		263 B Misc. waste o	rganic chemicals		
Waste Class: Waste Class		122 C Alkaline slutio	ons - containing othe	r metals and non-metals (not cyanide)	
Waste Class: Waste Class		112 C Acid solutions	s - containing heavy	metals	
Waste Class: Waste Class		251 L Waste oils/slu	idges (petroleum ba	sed)	
Waste Class: Waste Class		232 C Polymeric resi	ins		
Waste Class: Waste Class		252 L Waste crankc	ase oils and lubricar	nts	
Waste Class: Waste Class		212 L Aliphatic solve	ents and residues		
<u>22</u>	48 of 48	ENE/168.9	181.3 / 17.6	9 E. S. FOX LIMITED 9127 MONTROSE ROAD NIAGARA FALLS ON L2E 6S5	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilii SIC Code: SIC Descripti	ars: ility: ty:	ON0214904 Registered As of Apr 2021		PO Box No: Country: Canada Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class		252 L Waste crankc	ase oils and lubricar	its	
Waste Class: Waste Class		148 I Misc. wastes a	and inorganic chemi	cals	
Waste Class: Waste Class		268 C Amines			
Waste Class: Waste Class		112 C Acid solutions	s - containing heavy	metals	

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Waste Class	Desc:	Halogenated solve	nts and residues			
Waste Class		263				
Waste Class		Misc. waste organi	c chemicals			
Waste Class	:	212 L				
Waste Class	Desc:	Aliphatic solvents a	and residues			
Waste Class		221 I				
Waste Class	Desc:	Light fuels				
Waste Class	:	263 B				
Waste Class	Desc:	Misc. waste organi	c chemicals			
Waste Class	:	251 L				
Waste Class	Desc:	Waste oils/sludges	(petroleum based)		
Waste Class	:	331 I				
Waste Class	Desc:	Waste compressed	d gases including c	ylinders		
Waste Class	:	145 L				
Waste Class	Desc:	Wastes from the us	se of pigments, coa	atings and paints		
Waste Class	:	122 C				
Waste Class	Desc:	Alkaline slutions - o	containing other m	etals and non-metals (not cy	/anide)	
Waste Class	:	232 C				
Waste Class	Desc:	Polymeric resins				
Waste Class	:	232 L				
Waste Class	Desc:	Polymeric resins				
Waste Class	:	262 L				
Waste Class	Desc:	Detergents and so	aps			
Waste Class	:	231 L				
Waste Class	Desc:	Latex wastes				
Waste Class	:	145 I				
Waste Class	Desc:	Wastes from the us	se of pigments, coa	atings and paints		
Waste Class	:	150 L				
Waste Class	Desc:	Inert organic waste	es			
<u>23</u>	1 of 1	SE/174.3	175.0 / 11.38	Montrose Road & Big Niagara Falls ON	ggar Road	EHS
Order No:		20160128098		Nearest Intersection:		
Status:		C		Municipality:	niagara falls	
Report Type		Custom Report 04-FEB-16		Client Prov/State:	ON .25	
Report Date: Date Receive		28-JAN-16		Search Radius (km): X:	.25 -79.127516	
Previous Site		former airstrip		Х. Ү:	43.033917	
Lot/Building		36 hectares				
Additional In	fo Ordered:	City Directory				
<u>24</u>	1 of 1	ENE/174.5	183.3 / 19.67	MONTROSE RD Niagara Falls ON		WWIS
Well ID:		7231244		Data Entry Status:		
Construction		Monitoring		Data Src:	11/10/0011	
Primary Wate Sec. Water U		Monitoring		Date Received: Selected Flag:	11/10/2014 True	
				5		

Order No: 21081100468

Мар Кеу	Number Records		<i>Direction/</i> Distance (m)	Elev/Diff (m)	Site	DB
Final Well Sta Water Type: Casing Materi Audit No: Tag: Construction Elevation (m): Elevation Reli Depth to Bedi Well Depth: Overburden/E Pump Rate: Static Water L Flowing (Y/N) Flow Rate: Clear/Cloudy:	ial: Method: : iability: rock: Bedrock: Level: :	Observation Z193941 A169956	n Wells		Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	7238 7 MONTROSE RD NIAGARA NIAGARA FALLS CITY (WILLOUGHBY)
PDF URL (Maj	p):	h	ttps://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/723\7231244.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/10/03
Year Completed:	2014
Depth (m):	28.8545016
Latitude:	43.043721471185
Longitude:	-79.1227860069005
Path:	723\7231244.pdf

Bore Hole Information

Bore Hole ID: DP2BR:	1005209905	Elevation: Elevrc:	176.760848
Spatial Status:		Zone:	17
Code OB:		East83:	652902.00
Code OB Desc:		North83:	4767380.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	03-Oct-2014 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date: Improvement Location Improvement Location Source Revision Comm	Source: Method:		

Overburden and Bedrock Materials Interval

Supplier Comment:

Formation ID:	1005283679
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	06
Mat3 Desc:	SILT
Formation Top Depth:	10.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Overburden a</u> Materials Inte						
Formation ID		1005283678				
Layer:	•	3				
Color:		6				
General Colo	r:	BROWN				
Mat1:		05				
Most Commo	on Material:	CLAY				
Mat2:		06 SILT				
Mat2 Desc: Mat3:		05				
Mat3 Desc:		CLAY				
Formation To	op Depth:	4.0				
Formation Er		10.0				
	nd Depth UOM:	ft				
<u>Overburden a</u>	and Bedrock					
Materials Inte	erval					
Formation ID	:	1005283684				
Layer:		9				
Color:		2				
General Colo	r:	GREY				
Mat1:		15 LIMESTONE				
Most Commo Mat2:	on Material:	LIMESTONE				
Mat2 Desc:						
Mat2 Dese. Mat3:		15				
Mat3 Desc:		LIMESTONE				
Formation To	op Depth:	88.0				
Formation Er		94.66699981689453				
Formation Er	nd Depth UOM:	ft				
<u>Overburden a</u> Materials Inte						
Formation ID	:	1005283677				
Layer:		2				
Color:		6				
General Colo	r:	BROWN				
Mat1: Most Commo	n Matorial:	28 SAND				
Mat2:	ni malenai.	11				
Mat2 Desc:		GRAVEL				
Mat3:		11				
Mat3 Desc:		GRAVEL				
Formation To	op Depth:	1.0				
Formation Er		4.0				
Formation Er	nd Depth UOM:	ft				
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID	:	1005283680				
Layer:	-	5				
Color:		7				
General Colo	r:	RED				
Mat1:		05				
Most Commo	on Material:	CLAY				
Mat2: Mat2 Desc:		06 SILT				
Mat2 Desc:		SILI				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3: Mat3 Desc: Formation Top Formation Enc Formation Enc	d Depth:	06 SILT 30.0 52.0 ft			
<u>Overburden ar</u> Materials Inter					
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Mat3 Desc: Formation Top Formation End Formation End	n Material: o Depth: d Depth:	1005283676 1 8 BLACK 06 SILT 05 CLAY 02 TOPSOIL 0.0 1.0 ft			
<u>Overburden ar</u> Materials Inter					
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation End Formation End	n Material: o Depth: d Depth:	1005283682 7 7 RED 05 CLAY 06 SILT 05 CLAY 57.0 75.0 ft			
<u>Overburden ar</u> Materials Inter					
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Mat3 Desc: Formation Top Formation End Formation End	n Material: o Depth: d Depth:	1005283683 8 2 GREY 06 SILT 11 GRAVEL 06 SILT 75.0 88.0 ft			
<u>Overburden ar</u> <u>Materials Inter</u>					
Formation ID: Layer:		1005283681 6			

Color:	Map Key Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Matri: 06 Mat2: 05 Formation End Depth: 57.0 Formation End Depth: UOM: 1 Annuar Space/Abandonnest: 57.0 Formation 1 Plug Tor: 1005283892 Plug Tor: 0 Plug Tor: 10 Math2 Construction ID: 1005283891 Wethod Construction: Boring Other Method Construction: Boring Scansp Mo: 10 Scansp Mo: 10 Screen ID; 1005283875 Screen ID; 10 Screen ID; 10					
Most Common Material: SLT Marz Dess:: CLAY Marz Dess:: CLAY Marz Dess:: CLAY Marz Dess:: CLAY Tormation End Depth:: S2.0 Tormation End Depth:: S2.0 Tormation End Depth:: S2.0 Tormation End Depth:: S2.0 Tormation End Depth:: No Sealing Rescord No Plug De: 1005283682 Annular. Space/Abandonment. Samment. Sealing Rescord 0 Plug De: 1005283682 Apprim: 1005283682 Apprim: 1005283681 Method Construction & Well. Samment: Sa No Plug De: 1005283691 Method Construction Code: 6 Method Construction Code: 6 Method Construction Code: 6 Samment:: No Samment:: No Samment:: Sa Screen ID: 1005283689 Apr:<					
Mat2: 05 Mat2: 05 Mat2: 05 Mat2: 05 Mat2: 05 Commation Top Depth: 57.0 Formation End Depth: 57.0 Formation End Depth: 57.0 Formation End Depth: 1 Annula: Space/Abandonment Sealing Record 0 Hug ID: 1005283692 .ayor: 1 Hug For: 8 Hug For: 8 Hug For: 8 Hug Depth UOM: 1 Hug Depth UOM: 1 Mat2: Not Hethod Construction ID: 1005283691 Method Construction: Boring Properio: 1005283695 Method Construction: Boring Properio: 10052836875 Casing Not: 0 Casing Not: 10 Screen ID: 1005283689 Screen ID: 1005283689 Screen ID Depth: Scre					
Wat2 Desc: CLAY Wat3 Desc: CLAY Sormation End Depth: 57.0 Sormation End Depth: 57.0 Sormation End Depth: 57.0 Sormation End Depth: 57.0 Sormation End Depth: 1005283692 sayor: 1 Annular. Space/Abandonment. Sormation End Depth: Sayor: 1 Sore Dometric 8 Hig Toon: 0 Sore Dometric 8 Wath O Construction & Wath 1005283691 Wath O Construction & Dometric 8 Sore O Construction & Dometric 8 Wath O Construction & Dometric 8 Sore O Sort O					
Ward Desc: CLAY Formation End Depth: 52.0 Formation End Depth: 57.0 Formation End Depth: 57.0 Formation End Depth: 57.0 Formation End Depth: 50.0 Saling Rescord 1 Phug Dir: 1005283892 Liper: 0 Phug Forn: 0 Phug Tor: 88 Phug Tor: 88 Phug Depth UOM: t Wathod Construction & Well 5 Vathod Construction Code: 6 Wathod Construction: Boring Other Method Construction: Boring Other Method Construction: 0 Phys Io: 1005283689 Casing No: 0 Construction Rescrid - Screen 0 Streen To: 1005283689 Liper: 1 Streen To: 1005283689 Liper: 1 Streen To: 1005283689 Streen To: 1005283689 Streen To: 1005283689 Streen To: 10 Streen To:					
Formation Top Depth: 52.0 Formation End Depth 57.0 Formation End Depth 57.0 Formation End Depth 10 Sealing Resord 1 Annular Space/Abandonment. 1 Sealing Resord 0 Physics 1005283692 Aprim 0 Physics 8 Physics 1 Wethod Construction & Weth 1 Wethod Construction ID: 1005283691 Wethod Construction Code: 6 Wethod Construction Code: 6 Searce Depth 0005283675 Comment: 005283675 Comment: 0 Value Notice 0 Searce Dign Not: 1 Searce Dign Not: 0 Searce Dign Not: 1		05			
Formation End Formation Formation I Annular Space/Abandomment. Sealing Record Plug ID: 1005283092 ayer: 1 Nug Top: 0 Seconstruction Code: 6 Wethod Construction: Boring Streen Top: 1005283089 Layer: 1 Screen Dip: 1005283089 Layer: 1 Screen Top Depth: 5 Screen Dip Mice: 5 Screen Diameter UOM: Ith Screen Diameter UOM					
Formation End Depth UOM: It Annular Space/Abandomment. Sealing Necocid Sealing Necocid 005283692 Purp To: 0 Purp Depth UOM: 1 Method Construction ID: 1005283691 Wethod Construction: Boring Wethod Construction: Boring Other Method Construction: Boring Pipe ID: 1005283875 Comment: 0 Alt Name: 0 Streen ID: 1005283875 Streen ID: 1005283681 Streen ID: 100528					
Annular Space/Abandonment. Sealing Record Physics 1005283682 Layer: 1 Nig From: 0 Nig Tom: 8 Nig T	Formation End Depth:				
Sealing Record 100528382 Plug To: 1 Plug To: 8 Plug To: 83 Plug To: 83 Plug To: 83 Plug To: 83 Method of Construction & Well. 1005283891 Method Construction Code: 6 Method Construction: Boring Other Method Construction: 0 Sereen ID: 1005283869 Layer: 1 Screen ID: 1005283869 Layer: 1 Screen ID: 10 Screen Diameter: 5 Screen Diameter: 5 Screen Diameter: 5 Screen Diameter: 1005283687	Formation End Depth UOM:	ft			
Laver: 1 Program: 0 Program: 0 Program: 0 Program: 0 Program: 0 Program: 1 Method of Construction & Well Use Wethod Construction ID: 1005283691 Method Construction Code: 6 Method Construction: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Program: Boing Other Method Construction: Boing Other Method Construction: Program: Boing Other Method Dother Other Method Program: Boing Other Method Dother Din Boi		<u>t</u>			
Laver: 1 Program: 0 Program: 0 Program: 0 Program: 0 Program: 0 Program: 1 Method of Construction & Well Use Wethod Construction ID: 1005283691 Method Construction Code: 6 Method Construction: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Construction: Program: Boing Other Method Program: Boing Other Method Construction: Boing Other Method Construction: Program: Boing Other Method Dother Other Method Program: Boing Other Method Dother Din Boi	Plua ID:	1005283692			
Plug Torm: 0 Plug Tor: 88 Plug Depth UOM: t Method of Construction 8. Well. Value 1005283691 Method Construction 100: 1005283691 Method Construction Core: 6 Method Construction: Boring Other Method Construction: Boring Other Method Construction: Boring Plpe Information 1005283675 Cassing No: 0 Construction Record - Screen 0 Construction Record - Screen 1005283689 Layer: 1 Store: 90 Screen ID: 1005283689 Layer: 1 Screen Dapht: 90 Screen Dapht: 5 Water Pound Depth: 1005283687 Layer: inch Store: 5 Screen Diameter: 2.5 Water Pound Depth: inch Water Found Depth:					
Plug To:: 88 Plug Depth UOM: t Method of Construction A. Well.		0			
Method Construction & Well. Use Well Method Construction Code: 6 Method Construction: Boring Other Method Construction: Boring Pipe Information 1005283675 Cassing No: 0 Construction Record - Screen 0 Screen ID: 1005283689 Layer: 1 Screen Top Depth: 90 Screen Top Depth: 90 Screen Top Depth: 5 Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details 1005283687 Water Diameter UOM: inch Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details 1005283687 Water Could Depth: 1005283687 Layer: 1005283687 Water Could Depth: 1005283687 Layer: 1005283687 Water Could Depth: 1005283687 Water Diameter: 2.5	Plug To:				
Wath do Construction ID: 1005283691 Wath do Construction: Boing Plpe Information Boing Plpe Information 0 Plpe ID: 1005283675 Casing No: 0 Commant: 0 Alt Name: 0 Construction Record - Screen 0 Screen ID: 1005283689 Layer: 1 Stor: 10 Screen ID: 1005283689 Layer: 1 Stor: 10 Screen ID Depth: 90 Screen ID Depth: 5 Screen Dameter UOM: 10 Screen Dameter: 2.5 Water Do: 1005283687 Layer: 1005283687 Layer: 2.5 Water Code: 1005283687 Layer: 1005283687	Plug Depth UOM:	ft			
Method Construction Code: 6 Method Construction: Boring Other Method Construction: Pipe Information Pipe ID: 1005283675 Casing No: 0 Comment: 0 Comment: 0 Construction Record - Screen Screen ID: 1005283689 Layer: 1 Store 10 Screen Top Depth: 90 Screen Ind Depth: 5 Screen Dapt UOM: 1 Screen Ind Depth: 5 Screen Diameter: 2.5 Water DetailS Water Found Depth: 1 Water Found Depth Water Found Poth Water Fouh		ell			
Method Construction: Boring Diher Method Construction: Boring Pipe Information 1005283675 Casing No: 0 Comment: All All Name: Discomment: Screen ID: 1005283689 Layer: 1 Screen Top Depth: 10 Screen Top Depth: 90 Screen Top Depth: 90 Screen Top Depth: 5 Screen Top Depth: 10 Screen Diameter UOM: inch Screen Diameter UOM: inch Screen For Depth: 2.5 Water Details Vater Details Water Found Depth: Kind: Water Found Depth: Kind: Water Found Depth: Kind: Water Found Depth: Kind:	Method Construction ID:	1005283691			
Other Method Construction: Pipe Information Pipe ID: 1005283675 Casing No: Comment: Att Name: Comment: Att Name: Construction Record - Screen Construction Record - Screen Screen ID: 1005283689 Layer: 1 Screen Top Depth: 90 Screen Top Depth: Screen Material: Screen Material: Screen Material: Screen Papth UOM: th Screen Diameter: 2.5 Water Details Valuer Jobic Screen		6			
Pipe Information Pipe ID: 1005283675 Casing No: 0 Comment: 0 Alt Name: 0 Construction Record - Screen 0 Screen ID: 1005283689 Layer: 10 Screen Top Depth: 90 Screen Top Depth: 90 Screen Top Depth: 5 Screen Diameter UOM: t Screen Diameter: 2.5 Water Details 1005283687 Kind: Screen Found Depth: Water Found Depth: t		Boring			
Pipe ID: 1005283675 Casing No: 0 Comment: Alt Name: Construction Record - Screen	Other Method Construction:				
Casing No: 0 Comment: 0 Alt Name: 0 Construction Record - Screen 0 Screen ID: 1005283689 Layer: 1 Stot: 0 Screen Top Depth: 90 Screen Top Depth: 5 Screen Top Depth: 5 Screen Top Depth: 5 Screen Diameter UOM: 1 Screen Diameter: 2.5 Water Details 1005283687 Water ID: 1005283687 Layer: 1 Kind Code: Kind: Water Found Depth: 1 Water Found Depth UOM: ft Hole Diameter 1005283685	Pipe Information				
Construction Record - Screen Construction Record - Screen Screen ID: 1005283689 Layer: 1 Stot: 10 Screen Top Depth: 00 Screen Top Depth: 5 Screen Daterial: 5 Screen Daterial: 5 Screen Dateriet UM: inch Screen Diameter UM: 1005283687 Layer: 2.5 Water Details Water Found Depth: 4 Water Found Depth: 4 Hole Diameter Hole ID: 1005283685		1005283675			
Alt Name: Construction Record - Screen Screen ID: 1005283689 Layer: 1 Soreen Top Depth: 90 Screen End Depth: 5 Screen Diameter UOM: ft Screen Diameter: 2.5 Water Details 1005283687 Water ID: 1005283687 Layer: 1005283687 Kind Code: Kind: Water Found Depth: Kind Code: Water Found Depth: t Water Found Depth UOM: ft		0			
Construction Record - Screen Screen ID: 1005283689 Layer: 1 Slot: 10 Screen Top Depth: 90 Screen Top Depth: 5 Screen Depth UOM: ft Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Vater Details Water ID: 1005283687 Layer: 1 Kind: Water Found Depth: Water Found Depth: It Hole Diameter 1005283685					
Screen ID: 1005283689 Layer: 1 Slot: 0 Screen Top Depth: 90 Screen Top Depth: 5 Screen ID Depth: 5 Screen Depth UOM: ft Screen Diameter UOM: inch Screen Diameter UOM: inch Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Vater ID: Water ID: 1005283687 Layer: Kind Code: Kind: Vater Found Depth: Water Found Depth: t Water Found Depth: t Hole Diameter 1005283685	Alt Name:				
Layer:1Stot:10Stote:90Screen Top Depth:90Screen End Depth:90Screen Material:5Screen Depth UOM:10Screen Diameter UOM:inchScreen Diameter UOM:inchScreen Diameter:2.5Water Details1005283687Water Found Depth:1005283687Water Found Depth:ftWater Found Depth UOM:ftWater Found Depth UOM:ftWa	Construction Record - Scree	<u>n</u>			
Sot:10Screen Top Depth:90Screen End Depth:5Screen Material:5Screen Depth UOM:ftScreen Diameter UOM:inchScreen Diameter:2.5Water Details1005283687Water ID:1005283687Layer: Kind Code: Kind:tWater Found Depth:ftHole Diameter1005283685	Screen ID:	1005283689			
Screen Top Depth: 90 Screen End Depth: 5 Screen Material: 5 Screen Diameter UOM: ft Screen Diameter UOM: inch Screen Diameter UOM: 1005283687 Layer: 1005283687 Kind: Kind: Water Found Depth: ft Water Found Depth: ft Hole Diameter 1005283685					
Screen End Depth: Screen Material: 5 Screen Depth UOM: ft Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Water ID: 1005283687 Layer: Kind Code: Kind: Water Found Depth: Water Found Depth: Water Found Depth: Hole Diameter Hole Diameter Hole ID: 1005283685					
Screen Material: 5 Screen Depth UOM: ft Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Water ID: 1005283687 Layer: 1005283687 Kind Code: Kind: Water Found Depth: Ft Water Found Depth: ft Hole Diameter 1005283685		90			
Screen Depth UOM: ft Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Water ID: 1005283687 Layer: 1005283687 Kind: Kind: Water Found Depth: Water Found Depth UOM: ft		~			
Screen Diameter UOM: inch Screen Diameter: 2.5 Water Details Water ID: 1005283687 Layer: 1005283687 Kind Code: Kind: Water Found Depth: Water Found Depth Water Found Depth Image: Image: Image: Image: Kind: Water Found Depth: Image:					
Screen Diameter: 2.5 Water Details Water ID: 1005283687 Layer: 1005283687 Kind Code: Kind: Water Found Depth: Water Found Depth Water Found Depth UOM: thele Diameter					
Water ID: 1005283687 Layer: Intervention Kind Code: Intervention Kind: Intervention Water Found Depth: Intervention Water Found Depth UOM: ft Hole Diameter Intervention Hole ID: 1005283685					
Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM: ft Hole Diameter Hole ID: 1005283685	Water Details				
Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM: ft Hole Diameter Hole ID: 1005283685	Water ID:	1005283687			
Kind Code: Kind: Water Found Depth: Water Found Depth UOM: ft <u>Hole Diameter</u> Hole ID: 1005283685		-			
Water Found Depth: Water Found Depth UOM: ft Hole Diameter Hole ID: 1005283685					
Water Found Depth UOM: ft Hole Diameter Hole ID: 1005283685	Kind:				
Hole ID: 1005283685		ft			
	Hole Diameter				
Diameter: 8.0					
	Diameter:	8.0			

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Depth From: Depth To: Hole Depth U Hole Diamet	UOM:	0.0 8.66699981689453 ft inch	31			
Hole Diamet	<u>er</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth I Hole Diamet	UOM:	1005283686 4.0 8.0 94.6669998168945 ft inch	53			
<u>25</u>	1 of 9	ENE/190.4	181.6 / 17.92	The Regional Municip 9240 Montrose Rd Niagara Falls ON	pality of Niagara	SPL
Ref No: Site No: Incident Dt: Year:		3453-7SXK5M		Discharger Report: Material Group: Health/Env Conseq: Client Type:		
Incident Cau Incident Eve Contaminan Contaminan	ent: t Code:	Discharge Or Bypass To A W SEWAGE,RAW UNCHLORIN		Sector Type: Agency Involved: Nearest Watercourse: Site Address:	Sewage Treatment	
Contaminan Contam Lim Contaminan	t Limit 1: it Freq 1: t UN No 1:		WATED	Site District Office: Site Postal Code: Site Region:		
Environmen Nature of Im Receiving M	pact: ledium:	Not Anticipated Surface Water Pollution		Site Municipality: Site Lot: Site Conc:	Niagara Falls	
Receiving El MOE Respoi Dt MOE Arvl MOE Report	nse: on Scn:	Deferred Field Response 6/12/2009		Northing: Easting: Site Geo Ref Accu: Site Map Datum:	NA NA	
Dt Documen Incident Rea Site Name: Site County/	t Closed: ison:	Frost Heave Grassy Brook		SAC Action Class: Source Type:	Watercourse Spills	
Site Geo Rei Incident Sun Contaminan	f Meth: nmary:	Niagara Falls WPC	CP: Unkn Vol Sewa	ige to Ditch		
25	2 of 9	ENE/190.4	181.6 / 17.92	The Corporation of th 9240 Montrose Rd Niagara Falls ON	e City of Niagara Falls	СА
Certificate # Application Issue Date: Approval Ty, Status: Application Client Name Client Addre Client City: Client Posta Project Desc Contaminan	Year: pe: Type: : ess: I Code: cription:	2948-6XKLQQ 2007 2/1/2007 Air Revoked and/or Re	eplaced			

Map Key	Number Records		Elev/Diff (m)	Site	DE
<u>25</u>	3 of 9	ENE/190.4	181.6 / 17.92	The Corporation of the City of Niagara Fa 9240 Montrose Rd Niagara Falls ON	lls CA
Certificate #		7563-6ZNQ9A			
Application	Year:	2007			
lssue Date: Approval Ty	no:	4/5/2007 Municipal and Priva	ate Sewage Works		
Status:	pe.	Approved	ale dewage works		
Application Client Name Client Addre); ;				
Client City:					
Client Posta					
Project Deso Contaminan	•				
Emission Co					
25	4 of 9	ENE/190.4	181.6 / 17.92	The Corporation of the City of Niagara Fa	alls
_				9240 Montrose Rd Niagara Falls ON	CA
Certificate #		7765-6XGS37			
Application	Year:	2007			
ssue Date:	(D 0 1	3/1/2007 Municipal and Brive	to Sowago Works		
Approval Ty Status:	/pe:	Municipal and Priva Revoked and/or Re			
	Type:		placea		
Application					
Application Client Name					
Client Name Client Addre	»:				
Client Name Client Addre Client City:	ess:				
Client Name Client Addre Client City: Client Posta	ess: al Code:				
Client Name Client Addre Client City: Client Posta Project Dese	e: ess: al Code: cription:				
Client Name Client Addre Client City: Client Posta Project Dese Contaminan	e: ess: al Code: cription: ats:				
Client Name Client Addre Client City: Client Posta Project Dese Contaminan	e: ess: al Code: cription: ats:	ENE/190.4	181.6 / 17.92	The Corporation of the City of Niagara Fa 9240 Montrose Rd Niagara Falls ON L2E 6X5	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co	e: ess: cription: ets: ontrol: 5 of 9	ENE/190.4 2948-6XKLQQ	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval Da	e: ess: cription: hts: ontrol: 5 of 9	2948-6XKLQQ 2007-02-01	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City:	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval Da Status:	e: ess: cription: hts: ontrol: 5 of 9 5: ate:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241	Ils ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval Da Status: Record Type	e: ess: cription: tts: ontrol: 5 of 9 5: ate: e:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842	ils ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval Da Status: Record Type Link Source	e: ess: cription: hts: ontrol: 5 of 9 5: ate: e:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X:	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval Da Status: Record Type Link Source SWP Area N	e: ess: cription: tts: ontrol: 5 of 9 5: ate: e: e: lame:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA	181.6 / 17.92	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842	lls ECA
Client Name Client Addre Client City: Client Posta Project Dess Contaminan Emission Co <u>25</u> Approval No Approval No Status: Record Type Link Source SWP Area N Approval Type	e: ess: cription: ots: ontrol: 5 of 9 5: ate: e: e: lame: rpe: e:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR		9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y:	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval No Status: Record Type Link Source SWP Area N Approval Type Business Na	e: ess: cription: ots: ontrol: 5 of 9 5: ate: e: e: lame: rpe: e:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR The Corporation of		9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y:	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co <u>25</u> Approval No Approval No Status: Record Type SWP Area N Approval Type Business Na Address:	e: ess: cription: cription: dts: ontrol: 5 of 9 5 cf 9 c: ate: e: lame: /pe: e: ame:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR		9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y:	lls ECA
Client Name Client Addre Client City: Client Posta Project Desc Contaminan Emission Co <u>25</u> Approval No Approval No Status: Record Type SWP Area N Approval Type Business Na Address: Full Address	e: ess: al Code: cription: tts: ontrol: 5 of 9 5: ate: e: lame: /pe: e: ame: s:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR The Corporation of 9240 Montrose Rd	the City of Niagara	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y:	lls ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co	e: ess: al Code: cription: tts: ontrol: 5 of 9 5: ate: e: lame: /pe: e: ame: s:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR The Corporation of 9240 Montrose Rd	the City of Niagara	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y: Falls	lls ECA
Client Name Client Addre Client City: Client Posta Project Desc Contaminan Emission Co <u>25</u> Approval No Approval No Status: Record Type SWP Area N Approval Type Business Na Address: Full Address	e: ess: al Code: cription: tts: ontrol: 5 of 9 5: ate: e: lame: /pe: e: ame: s:	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR The Corporation of 9240 Montrose Rd	the City of Niagara	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y: Falls	ECA
Client Name Client Addre Client City: Client Posta Project Dese Contaminan Emission Co 25 Approval No Approval No Approval Da Status: Record Type Link Source SWP Area N Approval Ty Project Type Business Na Address: Full Address Full Address	e: ess: al Code: cription: tts: ontrol: 5 of 9 5: fate: e: e: lame: /pe: e: ame: s: hk: 6 of 9	2948-6XKLQQ 2007-02-01 Revoked and/or Replaced ECA IDS Niagara Peninsula ECA-AIR AIR The Corporation of 9240 Montrose Rd https://www.access	the City of Niagara	9240 Montrose Rd Niagara Falls ON L2E 6X5 MOE District: Niagara City: Longitude: -79.12241 Latitude: 43.043842 Geometry X: Geometry Y: Falls by.on.ca/instruments/4938-6V5SNW-14.pdf The Corporation of the City of Niagara Fa 9240 Montrose Rd	ECA IIIs

Мар Кеу	Number Record		Elev/Diff) (m)	Site		DB
Record Type Link Source: SWP Area Na Approval Type Project Type Business Na Address: Full Address Full PDF Lind	ame: oe: : me:	MUNICIPAL AND The Corporation 9240 Montrose R		E WORKS	43.043842 -6ZNPR6-14.pdf	
<u>25</u>	7 of 9	ENE/190.4	181.6 / 17.92	The Corporation of tl 9240 Montrose Rd Niagara Falls ON L2E	he City of Niagara Falls E 6X5	ECA
Approval No Approval Da Status: Record Type Link Source: SWP Area Na Approval Typ Project Type Business Na Address: Full Address Full PDF Lind	te: ame: be: : me:	MUNICIPAL AND The Corporation 9240 Montrose R		E WORKS	Niagara -79.12241 43.043842 -6V5SRT-14.pdf	
25	8 of 9	ENE/190.4	181.6 / 17.92	The Corporation of tl 9240 Montrose Rd Niagara Falls ON L2E	he City of Niagara Falls E 6X5	ECA
Approval No Approval Da Status: Record Type Link Source: SWP Area Na Approval Typ Project Type Business Na Address: Full Address Full PDF Lind	te: ;; ame: ; ;; ; ;; ;;	9240 Montrose R		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: a Falls gov.on.ca/instruments/7439	Niagara -79.12241 43.043842 -72BMN7-14.pdf	
<u>25</u>	9 of 9	ENE/190.4	181.6 / 17.92	The Regional Munici 9240 Montrose Rd; 3 Niagara Falls: Niagar	450 Stanley Ave	SPL
Ref No: Site No: Incident Dt: Year: Incident Cau Incident Eve Contaminant Contaminant Contaminant Contaminant Contaminant Environment	nt: t Code: t Name: t Limit 1: it Freq 1: t UN No 1:	0536-AUXNAA 9082-6V5SPS; 2652-5E2M 2018/01/12 Process Upset/Malfunction 44 SEWAGE,RAW UNCHLOR n/a		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality:	2 - Minor Environment Municipal Government Miscellaneous Industrial 9240 Montrose Rd; 3450 Stanley Ave Niagara; Niagara NA; L2E 6V8 West Central Niagara Falls; Niagara Falls	3

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Nature of Im Receiving M Receiving Er MOE Respor Dt MOE ArvI MOE Reporte Dt Documen Incident Rea Site Name: Site County/ Site Geo Ref Incident Sun Contaminant	edium: nv: on Scn: ed Dt: t Closed: son: District: Meth: nmary:		8 t Failure Grassy Brook; WW I Regional Municipalit NA; 10 -100 metres	y of Niagara; Re eg. Topographic	gional Municipality of Niagara	NA; NA NA; 4776463 NA; 655732 NA; NA NA; NAD83 Land Spills Valve/Fitting/Piping Jan 12 2018	
<u>26</u>	1 of 1		NW/206.4	170.7 / 7.04	7047 Reixinger Road Niagara Falls ON		EHS
Order No: Status: Report Type. Report Date: Date Receive Previous Site Lot/Building Additional In	ed: e Name: Size:	20120906 C Custom R 14-SEP-12 06-SEP-12	eport 2		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Niagara Falls ON .25 -79.140888 43.046238	
<u>27</u>	1 of 1		ESE/211.1	175.8 / 12.19	MONTROSE RD & KYC NIAGARA FALLS ON	DNS CREEK RD	WWIS
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mate Casing Mate Tag: Construction Elevation (m Elevation Re Depth to Bec Well Depth: Overburden/ Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy PDF URL (Mate)	er Use: Ise: atus: rial: n Method:): liability: Irock: Bedrock: Bedrock: Level:):	7200894 Monitoring Test Hole Z157984 A143216			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	4/30/2013 True 7464 7 MONTROSE RD & KYONS NIAGARA NIAGARA FALLS CITY (CI	
Additional D	etail(s) (Ma	<u>p)</u>					
Well Comple Year Comple Depth (m): Latitude: Longitude: Path:	ted Date:		2013/02/26 2013 6.1 43.0344799443071 -79.1237183909028				

Map Key Number of Records	<i>Direction/</i> Distance (m)	Elev/Diff (m)	Site		D
Bore Hole Information					
DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:	004278469		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	177.237548 17 652849.00 4766352.00 UTM83 4	
Date Completed: 26 Remarks: Elevrc Desc: Location Source Date: Improvement Location Sou Improvement Location Met Source Revision Comment Supplier Comment:	hod:		Location Method:	margin of error : 30 m - 100 m wwr	
Overburden and Bedrock Materials Interval					
Formation ID:	1004847196				
Layer:	2				
Color:	6 BROWN				
General Color: Mat1:	05				
Most Common Material:	CLAY				
Mat2: Mat2 Desc:	<u>e</u>				
Matz Desc: Mat3:					
Mat3 Desc:					
Formation Top Depth:	2.440000057220459	9			
Formation End Depth: Formation End Depth UOM	6.099999904632568 : m	8			
Overburden and Bedrock Materials Interval					
Formation ID:	1004847195 1				
Layer: Color:	6				
General Color:	BROWN				
Mat1:	05				
Most Common Material:	CLAY				
Mat2: Mat2 Desc:	06 SILT				
Mat2: Desc.	84				
Mat3 Desc:	SILTY				
Formation Top Depth:	0.0	_			
Formation End Depth: Formation End Depth UOM	2.440000057220459 : m	9			
Annular Space/Abandonme Sealing Record	<u>ent</u>				
Plug ID:	1004847203				
Layer:	1				
Plug From: Plug To:	0 2.74000000953674				
Plug To: Plug Depth UOM:	m				
Method of Construction &	Well				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Use</u>						
Method Cons	struction Code:	1004847202 9 Driving				
<u>Pipe Informa</u>	<u>tion</u>					
Pipe ID: Casing No: Comment: Alt Name:		1004847194 0				
Construction	Record - Casing					
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	1004847199 1 5 PLASTIC 0 3.04999995231628 5 cm m				
<u>Construction</u>	Record - Screen					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Matei Screen Depti Screen Diam Screen Diam	Depth: rial: n UOM: eter UOM:	1004847200 1 10 3.049999995231628 6.099999990463257 5 m cm 6				
<u>Water Details</u> Water ID: Layer: Kind Code: Kind: Water Found		1004847198				
Water Found Water Found		m				
Hole Diamete	<u>er</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete		1004847197 12.5 0.0 6.099999904632568 m cm				
<u>28</u>	1 of 1	W/227.7	178.0 / 14.31	W.C. Patterson C.	A. Biggar #2	OOGW
				Crowland ON		
Licence No:	F01414	44		Well Compl:	26072	
143	erisinfo.com Env	vironmental Risk Infor	mation Service	S		Order No: 21081100468

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
Well ID:	26063			County:	Welland
Well Compl ID:	26072			Block:	NULL
W Class ID:	2362			Lot:	5
UWI Code:	F0141	44		Conc:	ABF
Permit Date:	NULL			Surface Lat NAD83:	43.03789500
	141.43				-79.14611111
Depth(m):		•		Surface Long NAD83:	
Well Pool:	NULL			Bottom Lat NAD83:	43.03789500
Completion Da				Bottom Long NAD83:	-79.14611111
Depth Reached		08-20 00:00:00		Lot Sides (m):	698.80 N
Capped Date:	NULL			E/W (m):	212.80 W
Class ID:				Latitude Nad27:	
DB Source:				Longitude Nad27:	
Status as of:	June 2	020		bottom lat27:	
Start Date:	1948-0	7-28 00:00:00		bottom long27:	
SPUD Date:		7-28 00:00:00		Lateral:	No
Class:	DEV	20 00:00:00			50
Grnd Elev:	141.4			Accuracy:	Well Records (1921 to 1954)
				Method:	
KB Elev:	141.43			Parent:	NULL
TVD:	141.43	5		Prod Top:	110.03
PBTD:	NULL			Prod Bot:	125.27
TD Form:	Queer	ston		PROPD Depth:	152.40
Workover D:	NULL			Location Method:	Well Records (1921 to 1954)
Operator:	WC	Patterson Gas Co. Ltd.		Location Accuracy:	Within 50 metres
Township:	Crowla			Dt Obtained:	NULL
•	CIOWI		Piggor #2	Di Oblamed.	NOLL
Well Name:		W.C. Patterson C.A	. ыggar #2		
Target:		CLI			
Target Desc:		FORMATIONS INC		AND CATARACT (OR MEDIN	NA) GROUPS (WHIRLPOOL TO IRONDEQU
		Natural Gas Well			
			LY OR FORMER	LY USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Status Type De	esc:		LY OR FORMER	LY USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Status Type De Well Status Mo	esc: ode:	A WELL PRESENT	LY OR FORMER	LY USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Status Type De Well Status Mo Status Mode D	esc: ode: esc:	A WELL PRESENT Unknown	LY OR FORMER	LY USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Well Status Typ Status Type De Well Status Mo Status Mode D Classification: Classification	esc: ode: esc:	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO	/ELL" MEANS A	WELL THAT IS DRILLED FO	
Status Type De Well Status Mo Status Mode D Classification:	esc: ode: esc:	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER	OR THE PURPOSE OF PRODUCING FROM
Status Type De Well Status Mo Status Mode D Classification: Classification I Cement Rec: Comments:	esc: ode: esc:	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER	OR THE PURPOSE OF PRODUCING FROM
Status Type De Well Status Mo Status Mode D Classification: Classification I Cement Rec:	esc: ode: esc:	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxim	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER	OR THE PURPOSE OF PRODUCING FROM
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: <u>Details</u> License No:	esc: ode: esc: Desc: F0141	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source:	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: <u>Details</u> License No: Top (m):	esc: ode: esc: Desc: F0141 125.21	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m):	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: <u>Details</u> License No: Top (m): Elevation (m):	esc: ode: esc: Desc: F0141 125.2 16.15	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water:	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: <u>Details</u> License No: Top (m): Elevation (m): Geology Forma	esc: esc: Desc: F0141 125.2: 16.15 ation: Cabot	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m):	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water:	esc: esc: Desc: F0141 125.2: 16.15 ation: Cabot	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water:	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No:	esc: ode: esc: Desc: Desc: 16.15 ation: Cabot n/a F0141	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	OR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a
Status Type De Well Status Mode D Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m):	esc: ode: esc: Desc: Test: 16.15 ation: Cabot n/a F0141 12.80	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	OR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL
Status Type De Well Status Mode D Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): License No: Top (m): Elevation (m):	esc: pde: esc: Desc: 16.15 ation: Cabot n/a F0141 125.21 16.15 Cabot n/a F0141 12.80 n/a	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	OR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Ceology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	OR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Ceology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	OR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No:	esc: pde: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxin 44 Head	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	PR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No:	esc: pde: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift Fresh	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxin 44 Head	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	PR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Type of Water: License No: Type of Water:	esc: pde: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxin 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source:	PR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Type of Water: License No: Type of Water: License No: Type of Water:	esc: pde: esc: Desc: f0141 125.2: 16.15 ation: Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141 32.60 108.83	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	OR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a
Status Type De Well Status Mode D Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: Total ation: total tota	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m):	DR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology
Status Type De Well Status Mode D Classification: Classification I Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water:	esc: ode: esc: Desc: Total ation: total tota	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water:	DR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology
Status Type De Well Status Mode D Classification: Classification I Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Type of Water: License No:	esc: pde: esc: Desc: Total tion:	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	PR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology 108.83 / 32.60
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: Desc: ation: Cabot n/a F0141 125.2: 16.15 Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141 32.60 108.83 ation: Guelp n/a F0141 0.803 F0141 0.843 F0141 F014	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	POR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology 108.83 / 32.60 n/a NULL
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: Desc: ation: Cabot n/a F0141 125.2: 16.15 Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141 32.60 108.8: ation: Guelp n/a F0141 0.00 n/a	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	PR THE PURPOSE OF PRODUCING FROM R WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology 108.83 / 32.60 n/a NULL Water
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: Desc: ation: Cabot n/a F0141 125.2: 16.15 Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141 32.60 108.83 ation: Guelp n/a F0141 32.60 108.83 ation: Drift F0141 32.60 108.83 ation: Drift F0141 0.00 n/a	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxit 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	POR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology 108.83 / 32.60 n/a NULL
Status Type De Well Status Mode D Classification: Classification: Classification I Cement Rec: Comments: Details License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma Type of Water: License No: Top (m): Elevation (m): Geology Forma	esc: ode: esc: Desc: Desc: ation: Cabot n/a F0141 125.2: 16.15 Cabot n/a F0141 12.80 n/a ation: Drift Fresh F0141 32.60 108.83 ation: Guelp n/a F0141 32.60 108.83 ation: Drift F0141 32.60 108.83 ation: Drift F0141 0.00 n/a	A WELL PRESENT Unknown DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxin 44 Head 44	/ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER ified. Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m): Source: Static Level (m): Geology/Water: Elevation / Top (m):	PR THE PURPOSE OF PRODUCING FROM WELL HAS ALREADY BEEN DRILLED FORM 7 n/a Geology 16.15 / 125.27 n/a NULL Water n/a / 12.80 MNR n/a Geology 108.83 / 32.60 n/a NULL Water

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		D
Top (m): Elevation (m): Geology Forma Type of Water:		ter		Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 60.35 / 81.08	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a NULL Water n/a / 29.26	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 8.84 / 132.59	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 60.35 / 81.08	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 8.84 / 132.59	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 111.83 / 29.60	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 42.06 / 99.36	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 1.22 / 140.21	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a NULL Water n/a / 21.95	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 111.83 / 29.60	
License No: Top (m): Elevation (m): Geology Forma Type of Water:				Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 31.39 / 110.03	
License No:	F01414	4		Source:	FORM 7	

Order No: 21081100468

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	Di
Top (m): Elevation (m): Geology Form Type of Water:		99.36 42.06 Irondequoit n/a			Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 42.06 / 99.36
License No: Top (m): Elevation (m): Geology Form Type of Water:		F014144 140.21 1.22 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 1.22 / 140.21
License No: Top (m): Elevation (m): Geology Form Type of Water:		F014144 32.61 108.81 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 108.81 / 32.61
License No: Top (m): Elevation (m): Geology Form Type of Water:		F014144 110.03 31.39 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 31.39 / 110.03
License No: Top (m): Elevation (m): Geology Form Type of Water:		F014144 125.27 16.15 Cabot Head n/a	ł		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 16.15 / 125.27
<u>29</u>	1 of 1		ESE/229.4	175.8 / 12.19	ON	WWI
Well ID: Construction I Primary Water Sec. Water Use Final Well Stat Water Type: Casing Materia Audit No: Tag: Construction I Elevation Relia Depth to Bedro Well Depth: Overburden/Be Pump Rate: Static Water Le Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Map	Use: e: al: Method: ability: ock: edrock: evel:	7265625 C31786 A192016			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	Yes 6/24/2016 True 7464 8 NIAGARA NIAGARA FALLS CITY (CROWLAND)
<u>Additional Det</u> Well Complete Year Complete	d Date:	2	016/03/02 016			
Depth (m): Latitude: Longitude: Path:		4	3.0343159285812 79.1236006388104			

	mber of cords	Direction/ Distance (m)	Elev/Diff (m)	Site	DI
Bore Hole Informa	ntion				
Bore Hole ID: DP2BR:	1006078	3360		Elevation: Elevrc:	177.318710
Spatial Status: Code OB: Code OB Desc:				Zone: East83: North83:	17 652859.00 4766334.00
Open Hole: Cluster Kind:				Org CS: UTMRC:	UTM83 4
Date Completed: Remarks: Elevrc Desc: Location Source I Improvement Loo	Date:	2016 00:00:00		UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr
Improvement Loca Improvement Loca Source Revision (Supplier Commen	ation Method: Comment:				
<u>30</u> 1 of	1	ENE/230.0	185.4 / 21.74	MONROSE RD Niagara Falls ON	WWIS
Well ID: Construction Date	7305848	3		Data Entry Status: Data Src:	
Primary Water Us				Date Received:	2/14/2018
Sec. Water Use:	Monitorir	0		Selected Flag:	True
Final Well Status: Water Type:	Abandor	ned-Other		Abandonment Rec: Contractor:	Yes 7295
Casing Material: Audit No:	Z272946	2		Form Version: Owner:	7
Audit No: Tag:	A192016			Street Name:	MONROSE RD
Construction Metl				County:	NIAGARA
Elevation (m): Elevation Reliabili				<i>Municipality:</i> Site Info:	NIAGARA FALLS CITY (CROWLAND)
Depth to Bedrock				Lot:	
Well Depth: Overburden/Bedro Pump Rate:				Concession: Concession Name: Easting NAD83:	
Static Water Leve Flowing (Y/N): Flow Rate:	2			Northing NAD83: Zone: UTM Reliability:	
Clear/Cloudy: PDF URL (Map):		https://d2khazk8e8	3rdv.cloudfront.ne	t/moe_mapping/downloads	;/2Water/Wells_pdfs/730\7305848.pdf
Additional Detail(s <u>) (Map)</u>				
Well Completed D		2017/12/21			
Year Completed: Depth (m):		2017			
Latitude: Longitude:		43.044402783071 -79.123698283168	7		

Bore Hole Information

Bore Hole ID:	1006988604	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	652826.00
Code OB Desc:		North83:	4767454.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Improvement	rrce Date: t Location Source: t Location Method: sion Comment:	2017 00:00:00		UTMRC Desc: Location Method:	margin of error : 30 m - 100 m cnrev	
<u>Overburden a</u> Materials Inte						
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc:	or: on Material:	1007154281				
Formation To Formation Ei Formation Ei	op Depth: nd Depth: nd Depth UOM:	ft				
<u>Annular Spaces Sealing Recc</u>	<u>ce/Abandonment</u> ord					
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ЮМ:	1007154289 1 ft				
<u>Method of Co</u> <u>Use</u>	onstruction & Well					
Method Cons	struction Code:	1007154288 6 Boring				
<u>Pipe Informa</u>	<u>tion</u>					
Pipe ID: Casing No: Comment: Alt Name:		1007154280 0				
Construction	Record - Screen					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Matei	Depth:	1007154285				
Screen Deptl Screen Diam Screen Diam	h UOM: eter UOM:	ft inch				

epth: epth UOM: 1:	1007154283 ft 1007154282				
pth UOM:	ft				
pth UOM:					
pth UOM:					
	1007154282				
	1007154282				
	ft				
IOM:	inch				
of 1	SE/249.8	174.8 / 11.19	Montrose Road And I Niagara Falls ON	yons Creek Road	EHS
	0121002031		Nearest Intersection: Municipality:	City of Niagara Falls	
	ustom Report		Client Prov/State:	ON	
			Search Radius (km):	.9	
	2-OCT-12		Х:		
			Y:	43.033831	
	Fire Insur Mans	and/or Site Plans: Ti	tle Searches: City Directory		
		,,,			
of 1	SE/287.2	175.8 / 12.19	lot 1 ON		WWI
	600614		Data Entry Status:	4	
	otllead				
	01 0300				
-	est Hole		Abandonment Rec:		
			Contractor:	2801	
:			Form Version: Owner:	1	
othod.					
			Municipality:		'LAND)
;k:			Lot:	001	
drock:			Concession Name:	BF	
/el:					
			Zone:		
			UTM Reliability:		
	https://d2khazk8	e83rdv.cloudfront.ne	t/moe_mapping/downloads/2	2Water/Wells_pdfs/660\6600614.p	df
i <u>l(s) (Map)</u>					
Date:	1960/07/04				
l:	1960				
	28.6512				
	C C 21 02 02 02 02 02 02 02 02 02 02 02 02 02	Custom Report 12-OCT-12 02-OCT-12 ame: e: Drdered: Fire Insur. Maps of 1 SE/287.2 6600614 tfe: Ise: Not Used 0 s: Test Hole : ethod: bility: sk: drock: rel:	C Custom Report 12-OCT-12 02-OCT-12 ame: e: Drdered: Fire Insur. Maps and/or Site Plans; Ti of 1 SE/287.2 175.8 / 12.19 6600614 tte: Ise: Not Used 0 s: Test Hole : ethod: bility: sk: drock: rel:	20121002031 Nearest Intersection: C Custom Report 12-OCT-12 202-OCT-12 ame: Y: e: Dordered: Dridered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory of 1 SE/287.2 175.8 / 12.19 lot 1 o Data Entry Status: Data Src: Data Received: Selected Flag: Abandonment Rec: contractor: Form Version: Owner: street Hod: Municipality: Site Info: willity: Site Info: Lot: concession Name: Easting NAD83: rel: Northing NAD83: Zone: vertex UTM Reliability:	20121002031 Nearest Intersection: City of Niagara Falls Custom Report 12:OCT-12 ON 02-OCT-12 X: -79.125821 ame: Y: 43.033831 e: Drdered: Fire Insur. Maps and/or Site Plans; Title Search Radius (km): .9 0f 1 SE/287.2 175.8 / 12.19 lot 1 00 6600614 Data Entry Status:

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Latitude: Longitude: Path:		43.0329665982859 -79.1269817300293 660\6600614.pdf				
Bore Hole Infor	mation					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed Remarks:				Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	178.330993 17 652586.90 4766178.00 5 margin of error : 100 m - 300 m p5	
	ocation Source: ocation Method: n Comment:					
<u>Overburden and</u> <u>Materials Interv</u>						
Formation ID: Layer: Color: General Color:		932589390 6				
Mat1: Most Common Mat2: Mat2 Desc: Mat3:	Material:	05 CLAY 06 SILT				
Mat3 Desc: Formation Top Formation End Formation End	Depth:	48.0 53.0 ft				
<u>Overburden and</u> Materials Interv						
Formation ID: Layer: Color: General Color:		932589391 7				
Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc:	Material:	05 CLAY				
Formation Top Formation End Formation End	Depth:	53.0 59.0 ft				
<u>Overburden and</u> Materials Interv						
Formation ID: Layer: Color:		932589394 10				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
General Color Mat1:	:	00			
Matt: Most Commo Mat2: Mat2 Desc: Mat3:	n Material:	06 SILT			
Mat3 Desc: Formation To Formation En	p Depth: d Depth:	68.0 70.0			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID: Layer: Color:		932589392 8			
General Color Mat1: Most Commo		06 SILT			
Mat2: Mat2 Desc: Mat3:		08 FINE SAND			
<i>Mat3 Desc: Formation To Formation En Formation En</i>	p Depth: d Depth: d Depth UOM:	59.0 62.0 ft			
<u>Overburden a</u> Materials Inte					
Formation ID: Layer: Color: General Coloi		932589396 12			
Mat1: Most Commo Mat2:		09 MEDIUM SAND 11			
Mat2 Desc: Mat3: Mat3 Desc:		GRAVEL			
Formation To Formation En	p Depth: d Depth: d Depth UOM:	75.0 87.0 ft			
<u>Overburden a</u> Materials Inte					
Formation ID: Layer:		932589387 3			
Color: General Coloi Mat1:		3 BLUE 05			
Most Commo Mat2: Mat2 Desc: Mat3:	n Material:	CLAY			
Mat3 Desc: Formation To Formation En	p Depth: d Depth: d Depth UOM:	9.0 40.0 ft			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden Materials Inte	and Bedrock erval				
Formation ID):	932589386			
Layer:		2			
Color:		7			
General Colo	or:	RED			
Mat1:		05			
Most Commo	on Material:	CLAY			
Mat2:					
Mat2 Desc: Mat3:					
Mat3: Mat3 Desc:					
Formation Te	on Denth	1.0			
Formation E		9.0			
	nd Depth UOM:	ft			
Overburden	and Bedrock				
Materials Inte					
Formation ID):	932589385			
Layer: Color:		1			
General Colo	nr.				
Mat1:	<i>.</i>	02			
Most Commo	on Material:	TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To	op Depth:	0.0			
Formation El	nd Depth: nd Depth UOM:	1.0 ft			
	and Bedrock				
Materials Interior	<u>ervai</u>				
Formation ID);	932589389			
Layer:		5			
Color:					
General Cold	or:				
Mat1:		05			
Most Commo Mat2:	on Material:	CLAY			
Mat2 Desc:					
Mat2 Desc. Mat3:					
Mat3 Desc:					
Formation To	op Depth:	44.0			
Formation E	nd Depth:	48.0			
Formation E	nd Depth UOM:	ft			
Overburden	and Bedrock				
Materials Inte	<u>erval</u>				
Formation ID);	932589395			
Layer:		11			
Color:					
General Cold	or:				
Mat1:		05			
Most Commo	on Material:	CLAY			
Mat2: Mat2 Doso:					
Mat2 Desc: Mat3:					
mals.					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation T	op Depth:	70.0			
Formation E	nd Depth:	75.0			
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> <u>Materials Int</u>	and Bedrock erval				
Formation ID);	932589388			
Layer:	-	4			
Color:					
General Colo	or:				
Mat1:		05			
Most Comme	on Material:	CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:	an Dantha	BOULDERS			
Formation To Formation E	op Deptn: nd Donth:	40.0 44.0			
	nd Depth UOM:	44.0 ft			
Formation E	na Deptil OOM.	n			
<u>Overburden</u> Materials Int	<u>and Bedrock</u> erval				
Formation IL);	932589398			
Layer:		14			
Color:					
General Colo	or:				
Mat1:		15			
Most Comm	on Material:	LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3: Mat3 Desc:					
Formation T	on Denth:	93.0			
Formation E		94.0			
Formation E	nd Depth UOM:	ft			
	na Dopar Com				
<u>Overburden</u> Materials Int	and Bedrock erval				
Formation ID):	932589393			
Layer:		9			
Color:					
General Colo	or:				
Mat1:		05			
Most Comm	on Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:	an Danth	62.0			
Formation To Formation E	op Deptn: nd Depth:	62.0 68.0			
	nd Depth UOM:	ft			
<u>Overburden</u> Materials Int	<u>and Bedrock</u> erval				
Formation ID		932589397			
Layer:		13			
Color:					
00101.					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Ľ
General Colo Mat1:	or:	05			
wati: Nost Commo	n Mətorial:	05 CLAY			
//ost comme //at2:	ni maleriai.	11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation To		87.0			
Formation Er	nd Depth:	93.0			
-ormation Ei	nd Depth UOM:	ft			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons	struction ID:	966600614			
	struction Code:	1			
Method Cons		Cable Tool			
Other Method	d Construction:				
Pipe Informa	<u>tion</u>				
Pipe ID:		11008918			
Casing No:		1			
Comment:					
Alt Name:					
Construction	Record - Casing				
Casing ID:		930747637			
Layer: Material:		1			
open Hole or	r Material:	STEEL			
Depth From:		01222			
Depth To:		79			
Casing Diam	eter:	5			
Casing Diam		inch			
Casing Deptl	h UOM:	ft			
Construction	Record - Screen				
Screen ID:		933385505			
Layer:		1			
Slot: Screen Top L	Denth [.]	79			
Screen End L		89			
Screen Mater					
Screen Deptl		ft			
Screen Diam		inch			
Screen Diam	eter:				
Results of W	ell Yield Testing				
Pump Test ID		996600614			
	:	14.0			
Pump Set At:		14.0 18.0			
Pump Set At: Static Level:	ftor Dumning.	10.0			
Pump Set At: Static Level: Final Level A	fter Pumping: ed Pump Depth:				
Pump Set At: Static Level: Final Level A Recommende	ed Pump Depth:	25.0			
Pump Set At: Static Level: Final Level A Recommend Pumping Rat	ed Pump Depth: e:	25.0			
Pump Set At: Static Level: Final Level A Recommend Pumping Rat Flowing Rate	ed Pump Depth: e:	25.0			
Pump Set At: Static Level: Final Level A Recommend Pumping Rat Flowing Rate	ed Pump Depth: e: e: ed Pump Rate:	25.0 ft GPM			

Water State After Test Code: 2 Water State After Test: CLOUDY Pumping Test Method: 1 Pumping Duration HR: 8 Pumping Duration MIN: 0 Flowing: No Water Details 933947882 Layer: 1 Kind Code: 1 Kind: FRESH	DB
Pumping Test Method: 1 Pumping Duration HR: 8 Pumping Duration MIN: 0 Flowing: No Water Details 933947882 Layer: 1 Kind Code: 1	
Pumping Duration HR: 8 Pumping Duration MIN: 0 Flowing: No Water Details 933947882 Layer: 1 Kind Code: 1	
Pumping Duration MIN: 0 Flowing: No Water Details Water ID: 933947882 Layer: 1 Kind Code: 1	
Pumping Duration MIN: 0 Flowing: No Water Details 933947882 Layer: 1 Kind Code: 1	
Flowing: No Water Details 933947882 Layer: 1 Kind Code: 1	
Water ID: 933947882 Layer: 1 Kind Code: 1	
Layer: 1 Kind Code: 1	
Kind Code: 1	
Kind Code: 1	
Kind: FRESH	
Water Found Depth: 75.0	
Water Found Depth UOM: ft	

Unplottable Summary

Total: 59 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 1 Con BF	Niagara Falls - Willoughby ON	
AAGR		Lot 5	Niagara Falls - Stamford ON	
AAGR		Lot 5	Niagara Falls - Stamford ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	R.M. OF NIAGARA	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO (NIAGARA PLANT GROUP)	LOT 1, SIR ADAM BECK G.S.	NIAGARA FALLS CITY ON	
CA	FERNANDO PINGUE	SOUTH DR./R #98(MONTROSE RD.)	NIAGARA FALLS CITY ON	L2E 6S4
CA	FERNANDO PINGUE	SOUTH DR./RR #98(MONTROSE RD.)	NIAGARA FALLS CITY ON	L2E 6S4
CA	ONTARIO HYDRO (NIAGARA PLANT GROUP)	GORE LOT 1, SIR ADAM BECK COMP.	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO (SIR ADAM BECK G.S.)	LOT #1, BROKEN FRONTAGE	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO (NIAGARA PLANT GROUP)	GORE LOT 1, STAMFORD TWP.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO, SIR ADAM BECK II GS	GORE LOT 1, BF., STAMFORD TWP.	NIAGARA FALLS ON	

CA	ONTARIO HYDRO, SIR ADAM BECK II GS	LOT 1, BROKEN FRONTAGE	NIAGARA FALLS ON	
CA	The Corporation of the City of Niagara Falls	Part of Lot 210, Stamford Twp. Parts 2 and 3 on Reference Plan, Blackburn Parkwa	Niagara Falls ON	
CA	ONTARIO HYDRO, SIR ADAM BECK II GS	LOT 1, STANFORD, STATION #2	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO, SIR ADAM BECK II GS	GORE LOT 1/BROKEN FRONTAGE	NIAGARA FALLS CITY ON	
CA	ONTARIO HYDRO, SIR ADAM BECK II GS	GORE LOT 1/BROKEN FRONTAGE	NIAGARA FALLS CITY ON	
СА		Montrose Road	Niagara Falls ON	
CA		Montrose Road	Niagara Falls ON	
CA	The Corporation of the City of Niagara Falls	Montrose Road	Niagara Falls ON	
CA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
CONV	IAN HERD	Reixinger Road	Niagara Falls ON	
EBR	Cytec Canada Inc.	Niagara Falls Lot:Twp. Lot 4 Concession: Stamford Regional Municipality of Niagara CITY OF NIAGARA FALLS	ON	
ECA	The Corporation of the City of Niagara Falls	Part of Lot 210, Stamford Twp. Parts 2 and 3 on Reference Plan, Blackburn Parkway off Montrose Road	Niagara Falls ON	L2E 6X5
ECA	The Corporation of the City of Niagara Falls	Montrose Rd	Niagara Falls ON	
ECA	The Corporation of the City of Niagara Falls	from Montrose Road to 100 metres west	Niagara Falls ON	L2E 6X5
ECA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
ECA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
ECA	The Corporation of the City of Niagara Falls	Montrose Rd	Niagara Falls ON	L2E 6X5
EHS		Montrose Road	Niagara Falls ON	
GEN	ONTARIO POWER GENERATION	SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1	NIAGARA FALLS ON	
GEN	ONTARIO HYDRO	PUMP GENERATING STATION LOT 1	NIAGARA FALLS ON	
GEN	ONTARIO POWER GENERATION	PUMP GENERATING STATION LOT 1	NIAGARA FALLS ON	

GEN	ONTARIO HYDRO	SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1	NIAGARA FALLS ON	
GEN	WATERLOO COUNTY BOARD OF EDUCATION42-439	WINTERBOURNE P.S.,PT LOT4,BROKEN FRONT CONC.,R.R.#2,WEST MONTROSE, C/O BOX 68	KITCHENER ON	N2G 3X5
GEN	ONTARIO HYDRO 45-068	SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1	NIAGARA FALLS ON	
NCPL	Ford Motor Company of Canada		Niagara Falls (Welland) ON	
NPCB	FORD MOTOR COMPANY OF CANADA	NIAGARA GLASS PLANT	NIAGARA FALLS ON	
PTTW	2285045 Ontario Inc.	Ponds 1,2,3,4,5, Main Irrigation Pond and Welland River Lot: 1-6, Concession: Broken Front, Geographic Township: CROWLAND, Niagara Falls, City, Regional	Municipality of Niagara CROWLAND ON	
PTTW	Grand Niagara Golf Corporation	Part of Lots 1-6, Broken Front of Welland River, City of Niagara, Regional Municipality of Niagara CITY OF NIAGARA FALLS	ON	
PTTW	Oaklands Golf Club	Lot 3, Broken Front Concession, Geographic Township of Willoughby, City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS	ON	
PTTW	909225 Ontario Ltd.	Lot 1, City of Thorold CITY OF THOROLD	ON	
PTTW	Grand Niagara Resort Corporation	Part Lots 1 through 6 Broken Front of Welland River City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS	ON	
PTTW	Grand Niagara Golf Corporation	Part Lots 1 through 6, Broken Front of Welland River, City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS	ON	
SCT	DAY-TIMERS OF CANADA LTD		NIAGARA FALLS ON	L2E 6X6
SCT	MORNINGSTAR LUMBER LIMITED	MONTROSE RD	NIAGARA FALLS ON	L2H
SPL	TRANSPORT TRUCK	ON THE Q.E.W IN NIAGARA FALLS AT MONTROSE RD. MOTOR VEHICLE (OPERATING FLUID)	NIAGARA FALLS CITY ON	
SPL	UNKNOWN	SOUTH BOUND QEW AT SANDHILL PLANT	NIAGARA FALLS CITY ON	
SPL	OCCIDENTAL CHEMICAL	NIAGARA RIVER NEAR GRAND ISLAND ACROSS FROM CHIPPAWA CREEK NIAGARA FALLS, NEW YORK PLANT	NIAGARA FALLS CITY ON	
SPL	SM Freight Inc.	Fort Erie Bound at Biggar Rd.	Niagara Falls ON	
SRDS	FORD MOTOR COMPANY		NIAGARA FALLS ON	

WWIS	lot 3	ON
WWIS	lot 5	ON
WWIS	lot 4	ON

Unplottable Report

<u>Site:</u> Lot 1 Con BF N	iagara Falls - Willoughby ON	Database: AAGR
Туре:	Pit	
Region/County:	Niagara	
Township:	Niagara Falls - Willoughby	
Concession:	BF	
Lot:	1	
Size (ha):	3	
Landuse:	0	
Comments:	pond	
<u>Site:</u>		Database:
LOT 5 Niagara F	alls - Stamford ON	Addr
Туре:	Pit	
Region/County:	Niagara	
Township:	Niagara Falls - Stamford	
Concession:	Nagara Failo Clamiola	
Lot:	5	
Size (ha):	1.1	
Landuse:	1.1	
Comments:	remote site off Bruce Trail; significant natural revegetation occurring	
Comments.	Tennole site on Druce Trail, significant hatural revegetation occurring	
<u>Site:</u>		Database:
Lot 5 Niagara F	alls - Stamford ON	AAGR
Type:	Pit	
Region/County:	Niagara	
Township:	Niagara Falls - Stamford	
Concession:	Niagara Fails - Starilloru	
Lot:	5	
	1.4	
Size (ha): Landuse:	1.4	
Comments:	rababilitated by awar	
comments.	rehabilitated by owner	
<u>Site:</u> NIAGARA FALLS MONTROSE RD.	S CITY NIAGARA FALLS CITY ON	Database: CA
Certificate #:	7-0691-86-	

Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 7-0691-86-86 7/4/1986 Municipal water Approved

<u>Site:</u> R.M. OF NIAGARA MONTROSE RD. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 7-0664-86-86 6/27/1986 Municipal water Approved

<u>Site:</u> NIAGARA FALLS CITY MONTROSE RD NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 3-1394-86-86 9/11/1986 Municipal sewage Approved

<u>Site:</u> ONTARIO HYDRO (NIAGARA PLANT GROUP) LOT 1, SIR ADAM BECK G.S. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 8-2137-94-94 8/12/1994 Industrial air Approved

SOUTH TUNNEL INTAKE GATE PAINTING Suspended Particulate Matter Other - Air

<u>Site:</u> FERNANDO PINGUE SOUTH DR./R #98(MONTROSE RD.) NIAGARA FALLS CITY ON L2E 6S4

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: 3-1544-94-94 11/30/1994 Municipal sewage Approved

161

Database:

Database: CA

Database:

Order No: 21081100468

<u>Site:</u>	FERNANDO PINO SOUTH DR./RR #	GUE 198(MONTROSE RD.) NIAGARA FALLS CITY ON L2E 6S4	Database: CA
Certific	ate #:	7-1137-94-	
Applica	ation Year:	94	
Issue D	Date:	11/30/1994	
Approv	/al Type:	Municipal water	
Status:		Approved	
Applica	ation Type:		
Client l	Name:		
Client /	Address:		
Client (City:		
Client I	Postal Code:		
Project	Description:		
Contan	ninants:		
Emissi	on Control:		
<u>Site:</u>		O (NIAGARA PLANT GROUP) ADAM BECK COMP. NIAGARA FALLS CITY ON	Database: CA
Certific	ate #:	4-0075-94-	

Application Year: 94 Issue Date: 8/18/1994 Industrial wastewater Approval Type: Status: Approved Application Type: Client Name: **Client Address: Client City:** Client Postal Code: Project Description: Contaminants: **Emission Control:**

PUMP GEN. STATION OIL TANK FARM CONT.

Site: ONTARIO HYDRO (SIR ADAM BECK G.S.) LOT #1, BROKEN FRONTAGE NIAGARA FALLS CITY ON

4-0078-94-94 9/27/1994 Industrial wastewater Approved

SPILL CONT.SYS. FOR OIL-FILLED TRANS.

Site: ONTARIO HYDRO (NIAGARA PLANT GROUP) GORE LOT 1, STAMFORD TWP. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type:

4-0122-94-94 9/13/1995 Industrial wastewater Database: CA

Database:

CA

162

Approved in 1995

Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

PUMP GEN. STATION SUMP OIL SKIMMERS

<u>Site:</u> NIAGARA FALLS CITY MONTROSE RD. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 7-0809-86-86 7/22/1986 Municipal water Approved

<u>Site:</u> NIAGARA FALLS CITY MONTROSE RD. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 7-1388-86-86 11/24/1986 Municipal water Approved

<u>Site:</u> NIAGARA FALLS CITY MONTROSE RD. NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 7-0950-88-88 7/7/1988 Municipal water Approved

Database: CA

<u>Site:</u> ONTARIO HYDRO, SIR ADAM BECK II GS



Database: CA

GORE LOT 1, BF., STAMFORD TWP. NIAGARA FALLS ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address:	8-2307-95- 95 // Industrial air RE1
Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:	OVEN FOR MACHINE SHOP, AMEND C OF A

Site: ONTARIO HYDRO, SIR ADAM BECK II GS LOT 1, BROKEN FRONTAGE NIAGARA FALLS ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address:	8-2006-98- 98 2/27/1998 Industrial air Approved
Client City: Client Postal Code: Project Description: Contaminants: Emission Control:	STANDBY BLACK START DIESEL GENERATOR Nitrogen Oxides No Controls

Site: The Corporation of the City of Niagara Falls Part of Lot 210, Stamford Twp. Parts 2 and 3 on Reference Plan, Blackburn Parkwa Niagara Falls ON

Certificate #:	9097-7HNNG6
Application Year:	2008
Issue Date:	9/24/2008
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:	

Site: ONTARIO HYDRO, SIR ADAM BECK II GS LOT 1, STANFORD, STATION #2 NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address: Client City: Client Postal Code: Project Description:**

164

4-0065-97-97 7/21/1997 Industrial wastewater Approved

OIL CONTAINMENT SYSTEM

Database: CA

Database: CA

Database: CA

<u>Site:</u> ONTARIO HYDRO, SIR ADAM BECK II GS GORE LOT 1/BROKEN FRONTAGE NIAGARA FALLS CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 8-2307-95-006 95 10/2/95 Industrial air Approved

11) NEDERMAN FLEXIBLE HOSES & FANS

8-2312-95-966

Industrial air

<u>Site:</u> ONTARIO HYDRO, SIR ADAM BECK II GS GORE LOT 1/BROKEN FRONTAGE NIAGARA FALLS CITY ON

95

1/12/96

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

(6) VENTS FOR WELDING OPERATIONS Suspended Particulate Matter Panel Filter

Received in 1995, Issued in 1996

Site:

Montrose Road Niagara Falls ON

Certificate #:
Application Year:
Issue Date:
Approval Type:
Status:
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

3874-4KUSJZ 00 6/5/00 Municipal & Private water Approved New Certificate of Approval The Corporation of the City of Niagara Falls 4310 Queen Street Niagara Falls

Installation of 610m of 300m diameter PVC watermain to replace 150mm and 200mm D watermain (including appurtenances). Installation of the watermain along Montrose Road (from Industrial Street to Chorozy Street).

Contaminants: Emission Control:

<u>Site:</u> Montrose Road Niagara Falls ON

Certificate #: Application Year: Issue Date: Approval Type: 7074-4KPQZX 00 6/5/00 Municipal & Private sewage

165



Database:

CA

Database: CA

Database:

No Controls

Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: Approved New Certificate of Approval Corporation of the Regional Municipality of Niagara 2201 St. David's Road, PO Box 1042 Thorold L2V 4T7 Storm Sewers

<u>Site:</u> The Corporation of the City of Niagara Falls Montrose Road Niagara Falls ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 3382-6V5RB3 2006 11/9/2006 Municipal and Private Sewage Works Approved

<u>Site:</u> The Regional Municipality of Niagara Montrose Rd Niagara Falls ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 6146-7RLK55 2009 5/1/2009 Municipal and Private Sewage Works Approved

<u>Site:</u> IAN HERD Reixinger Road Niagara Falls ON

050104

File No: Crown Brief No: Court Location: Publication City: Publication Title: Act: Act(s): First Matter: Investigation 1: Investigation 2: Penalty Imposed: Description: Location: Region: Ministry District:

On March 20, 2009, ian M. Herd was sentenced ex parte, to six months in jail after being convicted on August 15, 2008 for failing to have oil-contaminated soil transported to an approved waste management facility by an approved waste hauler and failing to submit copies of all manifests and receipts to the ministry. An order was also issued to Mr. Herd and 1499974 Ontario Inc. to clean up the site in St. Catharines. Since Mr. Herd was not in attendance at the time of sentencing, a committal warrant was issued for his arrest. The Court heard that Mr. Herd

Database: <mark>CA</mark>

> Database: CA

Database: CONV

is the sole director of 1499974 Ontario Inc. In April of 2006, the company purchased a property on Reixinger Road in Niagara Falls that contained an abundance of scrap metal, tires and liquid automobile wastes in barrels. In August of 2006, ministry staff issued an order to the company and Mr. Herd, requiring the removal of the oilcontaminated soil at the property and submission of all receipts related to the clean-up. Mr. Herd failed to comply with the order. Mr. Herd and the company were charged following an investigation by the Ministry of the Environment's Investigations and Enforcement Branch. Mr. Herd had previously been convicted of two other offences under the Environmental Protection Act. In 2004, he was convicted of operating a waste disposal site for tires in Belleville without a Certificate of Approval. A fine of \$13,000 was imposed, as well as a court order to clean up the site. He was then charged with failing to comply with the court order and pleaded guilty to the charge in June 2008. In September 2008, he was sentenced to sixty days in jail to be served intermittently, and two years of probation. His fine was suspended and a second court order was issued.

Background: URL:

Additional Details

Publication Date:	1
Act:	·
Regulation:	
Section:	
Act/Regulation/Section:	
Date of Offence:	
Date of Conviction:	
Date Charged:	March 20, 2009
Charge Disposition:	jail
Fine:	6 months
Synopsis:	

Site: Cytec Canada Inc.

Niagara Falls Lot:Twp. Lot 4 Concession:Stamford Regional Municipality of Niagara CITY OF NIAGARA FALLS ON

Database: EBR

-		
EBR Registry No:	012-4724	Decision Posted:
Ministry Ref No:	6137-9URRJD	Exception Posted:
Notice Type:	Instrument Decision	Section:
Notice Stage:		Act 1:
Notice Date:	December 02, 2015	Act 2:
Proposal Date:	July 23, 2015	Site Location Map:
Year:	2015	
Instrument Type:	(EPA Part II.1-sewage) -	Environmental Compliance Approval (project type: sewage)
Off Instrument Name:	(g_)	,,,,,, _
Posted By:		
Company Name:	Cytec Canada Inc.	
Site Address:		
Location Other:		
Proponent Name:		
Proponent Address:	9061 Garner Road Niad	ara Falls Ontario, Canada L2E 6S5
Comment Period:		
URL:		
ONE.		

Site Location Details:

Niagara Falls Lot:Twp. Lot 4 Concession:Stamford Regional Municipality of Niagara CITY OF NIAGARA FALLS

<u>Site:</u> The Corporation of the City of Niagara Falls Part of Lot 210, Stamford Twp. Parts 2 and 3 on Reference Plan, Blackburn Parkway off Montrose Road Niagara Falls ON L2E 6X5			Database: ECA
Approval No:	9097-7HNNG6	MOE District:	
Approval Date:	2008-09-24	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
Link Source:	IDS	Geometry X:	

ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS

Geometry Y:

SWP Area Name:

Approval Type:

Project Type: Business Name: Address: Full Address: Full PDF Link:

https://www.accessenvironment.ene.gov.on.ca/instruments/4265-7GSMT9-14.pdf

Approval No: Approval Date: Status: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full Address: Site: The Corporati	Niagara Falls ON 3874-4KUSJZ 2000-06-05 Approved ECA IDS ECA-Municipal and Private W The Corporation of the C Montrose Rd The Corporation of the C Montrose Rd	/ater Works City of Niagara Falls a Falls ON L2E 6X5 MOE District:	ECA Database ECA
Approval Date: Status: Statu	2000-06-05 Approved ECA IDS ECA-Municipal and Priv Municipal and Private W The Corporation of the O Montrose Rd	City: Longitude: Latitude: Geometry X: Geometry Y: ate Water Works /ater Works Dity of Niagara Falls City of Niagara Falls	
Address: Address: Address: Full Address: Full Address: Full Address: Full Address: Full PDF Link: Comportation Address: Fite: The Corporation from Montross Approval No: Approval No: Approval Date: Comportation Component of the component Component of the component	Approved ECA IDS ECA-Municipal and Priv Municipal and Private W The Corporation of the O Montrose Rd on of the City of Niagara Falls e Road to 100 metres west Niagar 9879-6G6J7K 2005-09-13	Longitude: Latitude: Geometry X: Geometry Y: ate Water Works /ater Works Dity of Niagara Falls moe District:	
Record Type: ink Source: WP Area Name: opproval Type: roject Type: Business Name: ddress: full Address: full Address: full PDF Link: <u>stee:</u> The Corporati from Montrost opproval No: opproval No: opproval Date: tatus: Record Type: ink Source:	ECA IDS ECA-Municipal and Priv Municipal and Private W The Corporation of the O Montrose Rd on of the City of Niagara Falls e Road to 100 metres west Niagar 9879-6G6J7K 2005-09-13	Latitude: Geometry X: Geometry Y: ate Water Works /ater Works Dity of Niagara Falls more Falls ON L2E 6X5 MOE District:	
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Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: <u>Site:</u> The Corporati from Montrost Approval No: Approval Date: Status: Record Type: ink Source:	Municipal and Private W The Corporation of the C Montrose Rd on of the City of Niagara Falls e Road to 100 metres west Niagar 9879-6G6J7K 2005-09-13	ate Water Works /ater Works City of Niagara Falls a Falls ON L2E 6X5 MOE District:	
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from Montros Approval No: Approval Date: Status: Record Type: .ink Source:	e Road to 100 metres west Niagar 9879-6G6J7K 2005-09-13	MOE District:	
pproval Date: tatus: Record Type: ink Source:	2005-09-13		
pproval Date: tatus: ecord Type: ink Source:	2005-09-13		
Status: Record Type: Link Source:			
Record Type: .ink Source:		City:	
ink Source:	Approved	Longitude:	
	ECA	Latitude:	
SWP Area Name:	IDS	Geometry X:	
		Geometry Y:	
Approval Type:	ECA-Municipal Drinking		
Project Type:	Municipal Drinking Wate		
Business Name:	The Corporation of the C		
Address:	from Montrose Road to	100 metres west	
Full Address:			
Full PDF Link:			
	Municipality of Niagara Niagara Falls ON		Database ECA
Approval No:	6146-7RLK55	MOE District:	
Approval Date:	2009-05-01	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
ink Source:	IDS	Geometry X:	
SWP Area Name:		Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND	PRIVATE SEWAGE WORKS	
Project Type:	MUNICIPAL AND PRIV		
Business Name:	The Regional Municipal		
Address:	Montrose Rd	.,	
Full Address:	Monto Se Nu		
Full PDF Link:	https://www.accessenvir	ronment.ene.gov.on.ca/instruments/4355-7REMBJ-14	1.pdf
	Municipality of Niagara		Database
	Niagara Falls ON		ECA
Approval No:	7074-4KPQZX	MOE District:	
Approval Date:	2000-06-05	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
.ink Source:	IDS	Geometry X:	

168

Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS The Regional Municipality of Niagara Montrose Rd

https://www.accessenvironment.ene.gov.on.ca/instruments/6007-4KERD6-14.pdf

The Corporation of the City of Niagara Falls Site: Database: Montrose Rd Niagara Falls ON L2E 6X5 **ECA** Approval No: 3382-6V5RB3 **MOE District:** 2006-11-09 Approval Date: City: Approved Status: Longitude: ECA Record Type: Latitude: Link Source: IDS Geometry X: SWP Area Name: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: **Business Name:** The Corporation of the City of Niagara Falls Address: Montrose Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8558-6TMTDM-14.pdf

Site:

Montrose Road Niagara Falls ON

Order No:	20130321024	Nearest Intersection:
Status:	С	Municipality:
Report Type:	Custom Report	Client Prov/State:
Report Date:	28-MAR-13	Search Radius (km):
Date Received:	21-MAR-13	Х:
Previous Site Name:		Y:
Lot/Building Size:		
Additional Info Ordered:		

Site: ONTARIO POWER GENERATION SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1 NIAGARA FALLS ON Generator No: ON0490124 PO Box No:

Generalor No.	0110490124	FU DUX NU.
Status:		Country:
Approval Years:	00,01	Choice of Contact:
Contam. Facility:		Co Admin:
MHSW Facility:		Phone No Admin:
SIC Code:	4911	
SIC Description:	ELECT. POWER SYS.	
•		

Detail(s)

Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

145

Waste Class: Waste Class Desc:

PAINT/PIGMENT/COATING RESIDUES

Database: EHS

ON .25 0 0

169

Waste Class:	253
Waste Class Desc:	EMULSIFIED OILS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	266
Waste Class Desc:	PHENOLIC WASTES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	243
Waste Class Desc:	PCB'S
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

ONTARIO HYDRO <u>Site:</u> PUMP GENERATING STATION LOT 1 NIAGARA FALLS ON

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

<u>Detail(s)</u>

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	243
Waste Class Desc:	PCB'S
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES

Database: GEN

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

<u>Site:</u> ONTARIO POWER GENERATION PUMP GENERATING STATION LOT 1 NIAGARA FALLS ON

Generator No: Status:	ON0490137	PO Box No: Country:
Approval Years: Contam. Facility: MHSW Facility:	00,01	Choice of Contact: Co Admin: Phone No Admin:
SIC Code: SIC Description:	4911 ELECT. POWER SYS.	

<u>Detail(s)</u>

Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	243
Waste Class Desc:	PCB'S
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

<u>Site:</u> ONTARIO HYDRO SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1 NIAGARA FALLS ON

Generator No: Status:	ON0490124	PO Box No: Country:
Approval Years:	97,98,99	Choice of Contact:
Contam. Facility:		Co Admin:
MHSW Facility:		Phone No Admin:



Database: GEN

171

SIC Code: SIC Description:	4911	ELECT. POWER SYS.
<u>Detail(s)</u>		
Waste Class: Waste Class Desc:		114 OTHER INORGANIC ACID WASTES
Waste Class: Waste Class Desc:		122 ALKALINE WASTES - OTHER METALS
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/COATING RESIDUES
Waste Class: Waste Class Desc:		146 OTHER SPECIFIED INORGANICS
Waste Class: Waste Class Desc:		148 INORGANIC LABORATORY CHEMICALS
Waste Class: Waste Class Desc:		211 AROMATIC SOLVENTS
Waste Class: Waste Class Desc:		212 ALIPHATIC SOLVENTS
Waste Class: Waste Class Desc:		213 PETROLEUM DISTILLATES
Waste Class: Waste Class Desc:		241 HALOGENATED SOLVENTS
Waste Class: Waste Class Desc:		243 PCB'S
Waste Class: Waste Class Desc:		251 OIL SKIMMINGS & SLUDGES
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS
Waste Class: Waste Class Desc:		253 EMULSIFIED OILS
Waste Class: Waste Class Desc:		266 PHENOLIC WASTES

WATERLOO COUNTY BOARD OF EDUCATION42-439 WINTERBOURNE P.S.,PT LOT4,BROKEN FRONT CONC.,R.R.#2,WEST MONTROSE, C/O BOX 68 KITCHENER ON Site: N2G 3X5

Database: GEN

Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON0184218 94,95,96 8511 ELEMT./SECON. EDUC.	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>			
Waste Class: Waste Class Desc:	221 LIGHT FUELS		

Site: **ONTARIO HYDRO 45-068** SIR ADAM BECK II GENERATING STATION GORE LOT 1, LOT 1 NIAGARA FALLS ON



Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON0490 92,93,98 4911		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:
<u>Detail(s)</u>			
Waste Class: Waste Class Desc:		213 PETROLEUM DISTILLATES	
Waste Class: Waste Class Desc:		212 ALIPHATIC SOLVENTS	
Waste Class: Waste Class Desc:		241 HALOGENATED SOLVENTS	
Waste Class: Waste Class Desc:		243 PCB'S	
Waste Class: Waste Class Desc:		251 OIL SKIMMINGS & SLUDGES	
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS	
Waste Class: Waste Class Desc:		266 PHENOLIC WASTES	
Waste Class: Waste Class Desc:		114 OTHER INORGANIC ACID WASTES	
Waste Class: Waste Class Desc:		122 ALKALINE WASTES - OTHER METAL	S
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/COATING RESIDUE	S

Ford Motor Company of Canada Site: Niagara Falls (Welland) ON

Year: 1992 Site Name: Facility Owner: Discharge Type: Wastewater Sector: **Glass Plant** District Area: Type of Concern: Policy and Guidelines Contaminant: see "Status Report" Exceeded guidelines for biochemical oxygen demand and total suspended solids once each during the reporting Status Report: period. Both exceedances were attributed to operational problems of the wastewater treatment plant. Company has improved operation and compliance is expected in 1993. This plant will be closed in early 1994, and all direct

FORD MOTOR COMPANY OF CANADA Site: NIAGARA GLASS PLANT NIAGARA FALLS ON

Company Code: O0300A Industry: CEMENT Site Status: STORAGE ONLY (NON FEDERAL) Transaction Date: 3/4/1996 Inspection Date: 9/15/1989

wastewater discharges will cease at that time.

Database: **NPCB**

Database: NCPL

<u>Site:</u> 2285045 Ontario Inc. Ponds 1,2,3,4,5, Main Irrigation Pond and Welland River Lot: 1-6, Concession: Broken Front, Geographic Township: PTTW CROWLAND, Niagara Falls, City, Regional Municipality of Niagara CROWLAND ON

EBR Registry No: Ministry Ref No: Notice Type: Notice Stage:	011-8555 5100-95KLCZ Instrument Decision	Decision Posted: Exception Posted: Section: Act 1:
Notice Date:	July 04, 2016	Act 2:
Proposal Date:	March 12, 2013	Site Location Map:
Year:	2013	
Instrument Type:	(OWRA s. 34) - Permit to Take Water	
Off Instrument Name:		
Posted By:		
Company Name:	2285045 Ontario Inc.	
Site Address:		
Location Other: Proponent Name: Proponent Address: Comment Period: URL:	8547 Grassy Brook Road, Niagara Fal	ls Ontario, Canada L0S 1K0

Site Location Details:

Ponds 1,2,3,4,5, Main Irrigation Pond and Welland River Lot: 1-6, Concession: Broken Front, Geographic Township: CROWLAND, Niagara Falls, City, Regional Municipality of Niagara CROWLAND

<u>Site:</u>		a Golf Corporation 6, Broken Front of Welland River, City of Niagara .LS ON	a, Regional Municipality of Niagara CITY OF	Database: PTTW
Ministry Notice		010-5157 2676-7L9KRG Instrument Decision	Decision Posted: Exception Posted: Section:	
Notice Notice Propos	•	May 06, 2010 November 12, 2008	Act 1: Act 2: Site Location Map:	
	ent Type: rument Name: Bv:	2008 (OWRA s. 34) - Permit to Take Water		
Compa Site Ad Locatio	ny Name: dress: n Other:	Grand Niagara Golf Corporation		
Propon	ent Name: ent Address: ent Period:	377 Burnhamthorpe Road East , 117, N	/lississauga Ontario, L5A 3Y1	

Site Location Details:

Part of Lots 1-6, Broken Front of Welland River, City of Niagara, Regional Municipality of Niagara CITY OF NIAGARA FALLS

Lot 3, Broke	<u>e:</u> Oaklands Golf Club Lot 3, Broken Front Concession, Geographic Township of Willoughby, City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS ON		
EBR Registry No: Ministry Ref No: Notice Type: Notice Stage:	IA05E0682 0254-6BWKGB Instrument Decision	Decision Posted: Exception Posted: Section: Act 1:	
Notice Date: Proposal Date:	September 07, 2005 May 02, 2005	Act 2: Site Location Map:	

2005

(OWRA s. 34) - Permit to Take Water

Instrument Type: Off Instrument Name: Posted By: Oaklands Golf Club Company Name: Site Address: Location Other: Proponent Name: Proponent Address: 8970 Stanley Ave. South, Niagara Falls Ontario, L2E 6T8 **Comment Period:** URL:

Site Location Details:

Year:

Lot 3, Broken Front Concession, Geographic Township of Willoughby, City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS

<u>Site:</u> 909225 Ontario Lot 1, City of 1	o Ltd. Fhorold CITY OF THOROLD ON		Database: PTTW
EBR Registry No: Ministry Ref No: Notice Type: Notice Stage: Notice Date: Proposal Date: Year: Instrument Type:	IA9E0216 23005612 Instrument Decision June 28, 2000 February 22, 1999 1999 (OWRA s. 34) - Permit to Take Water	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:	
Off Instrument Name: Posted By: Company Name: Site Address: Location Other: Proponent Name: Proponent Address: Comment Period: URL:	909225 Ontario Ltd. c/o Ted Baker & Associates, 10 Kings	bridge Garden Circle , 810, Mississauga Ontario, L5R 3K6	

Site Location Details:

Lot 1, City of Thorold CITY OF THOROLD

Site: Grand Niagara Resort Corporation Database: PTTW Part Lots 1 through 6 Broken Front of Welland River City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS ON

EBR Registry No: Ministry Ref No: Notice Type: Notice Stage:	IA01E0352 23014730 Instrument Decision	Decision Posted: Exception Posted: Section: Act 1:
Notice Date:	December 04, 2008	Act 2:
Proposal Date: Year:	March 14, 2001 2001	Site Location Map:
Instrument Type: Off Instrument Name: Posted By:	(OWRA s. 34) - Permit to Take Water	
Company Name: Site Address: Location Other:	Grand Niagara Resort Corporation	
Proponent Name: Proponent Address: Comment Period: URL:	377 Burnhamthorpe Road East, Suite	117, Mississauga Ontario, L5A 3Y1

Site Location Details:

Part Lots 1 through 6 Broken Front of Welland River City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS

		Niagara Falls, Regional Municipality of Niagara CITY	Database: PTTW
EBR Registry No: Ministry Ref No: Notice Type: Notice Stage: Notice Date: Proposal Date: Year: Instrument Type: Off Instrument Name: Posted By: Company Name: Site Address: Location Other: Proponent Name: Proponent Address: Comment Period: URL:	IA03E0010 23024331 Instrument Decision December 18, 2003 January 02, 2003 2003 (OWRA s. 34) - Permit to Take Water Grand Niagara Golf Corporation 377 Burnhamthorpe Road East , 117,	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: Mississauga Ontario, L5A 3Y1	
Site Location Details:			

Part Lots 1 through 6, Broken Front of Welland River, City of Niagara Falls, Regional Municipality of Niagara CITY OF NIAGARA FALLS

<u>Site:</u>	DAY-TIMERS OF NIAGARA FAL	E CANADA LTD LS ON L2E 6X6	Database: <mark>SCT</mark>
Establis	shed:	1947	
Plant Si	ize (ft²):	0	
Employ	/ment:	150	
Detail:	<u>s</u>		
Descrip SIC/NAI	otion: ICS Code:	BLANKBOOKS, LOOSELEAF BINDERS AND DEVICES 2782	
Site:		LUMBER LIMITED NIAGARA FALLS ON L2H	Database SCT
Establis		0000	
	ize (ft²):	1400	
Employ	/ment:	1	
Detail			
Descrip SIC/NA	otion: ICS Code:	HARDWOOD DIMENSION AND FLOORING MILLS 2426	
Descrip		Other Millwork	
SIC/NA	ICS Code:	321919	
<u>Site:</u>	TRANSPORT TR ON THE Q.E.W I CITY ON	RUCK N NIAGARA FALLS AT MONTROSE RD. MOTOR VEHICLE (OPERATING FLUID) NIAGARA FALLS	Database: SPL
Ref No:		113009 Discharger Report:	
176	erisinfo.co	n Environmental Risk Information Services Order No:	210811004

Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: **Dt Document Closed:** Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

5/11/1995

OTHER CONTAINER LEAK

POSSIBLE Soil contamination LAND

5/11/1995

EQUIPMENT FAILURE

Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: 18101 Site Lot: Site Conc: Northing: Easting: MTO Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:

CRAGCO LTD. - 450 L OF DIESEL FUEL TO GROUND FROM TRANSPORT TRUCK.

Site: UNKNOWN SOUTH BOUND QEW AT SANDHILL PLANT NIAGARA FALLS CITY ON

Ref No: 8753 Discharger Report: Site No: Material Group: 8/26/1988 Incident Dt: Health/Env Conseq: Client Type: Year: OTHER TRANSPORTATION ACCIDENT Sector Type: Incident Cause: Incident Event: Agency Involved: Contaminant Code: Nearest Watercourse: Contaminant Name: Site Address: Contaminant Limit 1: Site District Office: Contam Limit Freq 1: Site Postal Code: Contaminant UN No 1: Site Region: Environment Impact: Site Municipality: 18101 Nature of Impact: Site Lot: Receiving Medium: LAND Site Conc: Receiving Env: Northing: Easting: MOE Response: Dt MOE Arvl on Scn: Site Geo Ref Accu: 8/26/1988 MOE Reported Dt: Site Map Datum: SAC Action Class: **Dt Document Closed:** UNKNOWN Incident Reason: Source Type: Site Name: Site County/District: Site Geo Ref Meth: 450 LITRES DIESEL FUEL TOLAND FROM TRUCK ACCIDENT. Incident Summarv: Contaminant Qty:

Site: OCCIDENTAL CHEMICAL Database: NIAGARA RIVER NEAR GRAND ISLAND ACROSS FROM CHIPPAWA CREEK NIAGARA FALLS, NEW YORK PLANT NIAGARA FALLS CITY ON

Ref No:	22327
Site No: Incident Dt:	7/20/1989
Year:	
Incident Cause:	WASTEWATER DISCHARGE TO WATERCOURSE
Incident Event: Contaminant Code:	

Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type:

Agency Involved: Nearest Watercourse: SPL

Database: SPL

Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

WATER 7/20/1989

UNKNOWN

Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:

18101

OCCIDENTAL CHEMICAL-SPILLOF UNKNOWN MATERIAL & QUANTITY TO NIAGARA RIVER

<u>Site:</u> SM Freight I Fort Erie Bo	nc. und at Biggar Rd. Niagara Falls ON		Database: SPL
Ref No:	7640-9EMT62	Discharger Report:	
Site No:		Material Group:	
ncident Dt:	2013/12/22	Health/Env Conseq:	
/ear:		Client Type:	- - - - - - - - - -
ncident Cause:	Leak/Break	Sector Type:	Truck - Transport/Hauling
ncident Event:	10	Agency Involved:	
Contaminant Code:	13 DIESEL FUEL	Nearest Watercourse:	Fort Frie Deved at Disses Dd
Contaminant Name:		Site Address:	Fort Erie Bound at Biggar Rd.
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No Environment Impact:		Site Region: Site Municipality:	Niagara Falls
lature of Impact:	Soil Contamination	Site Lot:	Inayara Falis
Receiving Medium:	Soli Contamination	Site Conc:	
Receiving Env:		Northing:	
MOE Response:	Deferred Field Response	Easting:	
ot MOE Arvl on Scn:	2013/12/23	Site Geo Ref Accu:	
IOE Reported Dt:	2013/12/22	Site Map Datum:	
t Document Closed		SAC Action Class:	Highway Spills (usually highway accidents
ncident Reason:	Road Conditions	Source Type:	·
Site Name:	QEW <unofficial></unofficial>		
Site County/District:			
Site Geo Ref Meth:			
ncident Summary:	Transport Truck - diesel to QE	N from saddle tank.	
Contaminant Qty:	500 L		
<u>Site:</u> FORD MOTO NIAGARA	DR COMPANY FALLS ON		Database. SRDS
Company Code:	0000020503	Sector:	
Vorks ID:	205	Region:	
SIC: SIC1:	325 325	District:	
SIC1: SIC1 Desc:	520	UTM Zone:	
NC1 Desc:		UTM Easting: UTM Northing:	
NC2 Desc:		UTM Precision:	
NC2 Desc. NC3:		Minor Basin:	
NC3 Desc:		Major Basin:	
ody of Water:		Report Year:	1990-1994
		Neport real.	1000 1004

NIAGARA FALLS

Order No: 21081100468

Terminal Stream: SIC Desc: Mailing Address:

Corp Address:

<u>Site:</u> FORD MOTOR COMPANY NIAGARA FALLS ON

Company Code: Works ID: SIC: SIC1: SIC1 Desc: SIC2 Desc: SIC3: SIC3 Desc: Body of Water: Terminal Stream: SIC Desc: Mailing Address: Corp Address:

<u>MISA Industrial Wastewater</u> <u>Discharge</u>

Company Code: Control Point ID: 29 Sample Date: Regulation: Value: Unit of Measure: Control Point Name: Parameter Name:

<u>Site:</u>

Well ID:

lot 3 ON

Construction Date:

Primary Water Use:

Sec. Water Use:

Water Type:

Elevation (m):

Well Depth:

Pump Rate:

Flow Rate:

Flowing (Y/N):

Clear/Cloudy:

Audit No:

Tag:

Final Well Status:

Casing Material:

Construction Method:

Elevation Reliability:

Overburden/Bedrock:

Bore Hole Information

Static Water Level:

Depth to Bedrock:

6603952

Domestic

69116

Water Supply

11 3259 3259 OTHER VEHICLE ACCES.

UTM Northing: UTM Precision: Minor Basin: Major Basin: Report Year:

Sector: Region:

District:

UTM Zone:

UTM Easting:

OTHER MOTOR VEHICLE ACCESS PARTS & ASSEM IND 9127 MONTROSE ROAD, NIAGARA FALLS L2E6X3 9127 MONTROSE ROAD

> Result Structure: Param Reported As: Frequency: Sector: Component Type: MISCELLANEOUS

FINAL DISCHARGE - GROSS DATA

Data Entry Status: Data Src: 1 Date Received: 7/27/1990 Selected Flag: True Abandonment Rec: Contractor: 4795 Form Version: 1 **Owner:** Street Name: County: NIAGARA NIAGARA FALLS CITY (WILLOUGHBY) Municipality: Site Info: 003 Lot: Concession: Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Bore Hole ID: DP2BR: Spatial Status:	10463549	Elevation: Elevrc: Zone:	17
Code OB:	0	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	17-Jul-1990 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			

179

Database: SRDS

MOE WEST CENTRAL REGION

MOE WELLAND DISTRICT

17

653500

4767300

LAKE ONTARIO

GREAT LAKES

1990-1994

Database: WWIS Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932600508 1 6 BROWN 05 CLAY 79 PACKED
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 38.0 ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc:	932600509 2 2 GREY 31 COARSE GRAVEL
<i>Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	38.0 45.0 ft

Method of Construction & Well Use

Method Construction ID:	966603952
Method Construction Code:	1
Method Construction: Other Method Construction:	Cable Tool

Pipe Information

Pipe ID:	11012119
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930753071
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	45
Casing Diameter:	6
Casing Diameter UOM:	inch

Casing Depth UOM:

ft

Construction Record - Casing

Casing ID:	930753070
Layer:	1
Material:	1
Open Hole or Material:	STEEI
Depth From: Depth To:	44
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996603952
Pump Set At:	
Static Level:	14.0
Final Level After Pumping:	14.0
Recommended Pump Depth:	30.0
Pumping Rate:	21.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934344089
Test Type:	Recovery
Test Duration:	15
Test Level:	14.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934611864
Test Type:	Recovery
Test Duration:	30
Test Level:	14.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934865635
Test Type:	Recovery
Test Duration:	45
Test Level:	14.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935121635
Test Type:	Recovery
Test Duration:	60
Test Level:	14.0
Test Level UOM:	ft

Water Details

Water ID:	933951275
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	45.0
Water Found Depth UOM:	ft

<u>Site:</u>

lot 5 ON

Well ID: 6603611 Data Entry Status: Construction Date: Data Src: 1 4/4/1984 Primary Water Use: Domestic Date Received: Sec. Water Use: Selected Flag: True Final Well Status: Abandoned-Quality Abandonment Rec: 2123 Water Type: Contractor: Casing Material: Form Version: 1 Audit No: Owner: Tag: Street Name: **Construction Method:** County: NIAGARA Elevation (m): Municipality: NIAGARA FALLS CITY (STAMFORD) Elevation Reliability: Site Info: Depth to Bedrock: 005 Lot: Well Depth: Concession: Overburden/Bedrock: Concession Name: Pump Rate: Easting NAD83: Static Water Level: Northing NAD83: Flowing (Y/N): Zone: UTM Reliability: Flow Rate: Clear/Cloudy:

Bore Hole Information

Bore Hole ID: DP2BR:	10463211 29.00	Elevation: Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	18-Aug-1983 00:00:00	UTMRC Desc:	unknown UTM
Remarks: Elevrc Desc:		Location Method:	na

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Location Source Date:

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

932598916 1 6 BROWN 05 CLAY
0.0

Database:

Formation End Depth: Formation End Depth UOM:	8.0 ft
Overburden and Bedrock Materials Interval	
Formation ID: Layer: Color:	932598919 4
General Color: Mat1: Most Common Material: Mat2:	26 ROCK 15
Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth:	LIMESTONE 29.0
Formation For Depth: Formation End Depth UOM:	50.0 ft
<u>Overburden and Bedrock</u> <u>Materials Interval</u>	
Formation ID: Layer:	932598917 2
Color:	6
General Color: Mat1:	BROWN 05
Most Common Material: Mat2:	CLAY 28
Mat2 Desc:	SAND
Mat3: Mat3 Desc:	
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	8.0 22.0 ft
Overburden and Bedrock Materials Interval	
Formation ID:	932598918
Layer: Color:	3 2
General Color: Mat1:	GREY 05
Most Common Material:	CLAY
Mat2: Mat2 Desc:	11 GRAVEL
Mat3: Mat3 Desc:	
Formation Top Depth:	22.0
Formation End Depth: Formation End Depth UOM:	29.0 ft
<u>Method of Construction & Well</u> <u>Use</u>	
Method Construction ID:	966603611
Method Construction Code: Method Construction: Other Method Construction:	1 Cable Tool
Pipe Information	
Pipe ID:	11011781
183 erisinfo.com Envi	ronmental Risk Information Services

Casing No: Comment: Alt Name:

Construction Record - Casing

Casing ID:	930752579
Laver:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	01222
Depth To:	50
Casing Diameter:	7
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996603611
Pump Set At:	
Static Level:	32.0
Final Level After Pumping:	45.0
Recommended Pump Depth:	
Pumping Rate:	2.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933950902
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	44.0
Water Found Depth UOM:	ft

Site:

Tag:

Well ID:

lot 4 ON

6603735 **Construction Date:** Primary Water Use: Municipal Sec. Water Use: Final Well Status: Water Type: Casing Material: 10192 Audit No:

- Construction Method:
- Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N):

Observation Wells

Data Entry Status: Data Src: 1 4/14/1987 Date Received: Selected Flag: True Abandonment Rec: Contractor: 4005 Form Version: 1 Owner: Street Name: County: NIAGARA Municipality: NIAGARA FALLS CITY Site Info: 004 Lot: Concession: CON Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Database: **WWIS**

Order No: 21081100468

Flow Rate:

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: DP2BR:	10463334	Elevation: Elevrc:	47
Spatial Status:	-	Zone:	17
Code OB:	0 Otvorthunder	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	0
Cluster Kind:	40 Mar 4007 00:00:00	UTMRC:	9
Date Completed:	18-Mar-1987 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:	0		
Improvement Location			
Improvement Location Source Revision Comn			
	nent:		
Supplier Comment:			
Overburden and Bedro	ck		
Materials Interval			
<u>matemate meetra</u>			
Formation ID:	932599451		
Layer:	3		
Color:	6		
General Color:	BROWN		
Mat1:	08		
Most Common Materia	I: FINE SAND		
Mat2:	77		
Mat2 Desc:	LOOSE		

Overburden and Bedrock Materials Interval

Formation Top Depth:

Formation End Depth: Formation End Depth UOM:

Mat2 Desc: Mat3: Mat3 Desc:

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932599456 8 6 BROWN 28 SAND 77 LOOSE
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	176.0 179.0 ft

57.0 120.0

ft

Overburden and Bedrock Materials Interval

Formation ID:	932599449
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND

Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: Layer:	932599452 4
Color:	6
General Color:	BROWN
Mat1:	10
Most Common Material:	COARSE SAND
Mat2:	77
Mat2 Desc:	LOOSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	120.0
Formation End Depth:	151.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932599455
Layer:	7
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	08
Mat2 Desc:	FINE SAND
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	173.0
Formation End Depth:	176.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932599454 6 8 BROWN 28 SAND 77 LOOSE
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	160.0 173.0 ft

Overburden and Bedrock Materials Interval

Formation ID:	932599453
Layer:	5
Color:	6
General Color:	BROWN
Mat1:	28

Most Common Material:	SAND
Mat2:	29
Mat2 Desc:	FINE GRAVEL
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	151.0
Formation End Depth:	160.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932599450
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	6.0
Formation End Depth:	57.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966603735
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011904
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: Layer: Material:	930752761 2 1
Open Hole or Material: Depth From:	STEEL
Depth To:	173
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930752760
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	65
Casing Diameter:	8
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933385589
Layer:	1
Slot:	010
Screen Top Depth:	173
Screen End Depth: Screen Material:	176
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	5

Results of Well Yield Testing

Pump Test ID:	996603735
Pump Set At:	
Static Level:	128.0
Final Level After Pumping:	177.0
Recommended Pump Depth:	
Pumping Rate:	1.0
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:	8
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934865534
Test Type:	Draw Down
Test Duration:	45
Test Level:	177.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934611344
Test Type:	Draw Down
Test Duration:	30
Test Level:	177.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934343986
Test Type:	Draw Down
Test Duration:	15
Test Level:	177.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935129902
Test Type:	Draw Down
Test Duration:	60
Test Level:	177.0
Test Level 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:

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:

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 2020

Abandoned Mine Information System:

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated. Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

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-Dec 31, 2020

Borehole: BORE A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW. Government Publication Date: 1875-Jul 2018

Provincial

Provincial

Provincial

Private

ANDR

AAGR

AGR

AMIS

AST

AUWR

Provincial

Private

Provincial

Certificates of Approval:

Dry Cleaning Facilities: List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's

Commercial Fuel Oil Tanks:

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information. Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. Government Publication Date: May 31, 2021

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

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).

Compressed Natural Gas Stations:

Chemical Manufacturers and Distributors:

Government Publication Date: 1985-Oct 30, 2011*

Government Publication Date: Jan 2004-Dec 2018

Please refer to those individual databases for any information after Oct.31, 2011.

tetrachloroethylene to the environment from dry cleaning facilities.

distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.). Government Publication Date: 1999-Jan 31, 2020

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of

Chemical Register:

Government Publication Date: 1999-Dec 31, 2020

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance. Government Publication Date: Dec 2012 - Apr 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: 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*

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

190

Compliance and Convictions:

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- Jun 30, 2021

Provincial

CA

CDRY

Federal

Provincial CFOT

CHEM

CHM

CNG

CONV

Private

Provincial

Private

Private

Provincial

Provincial CPU

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Drill Hole Database:

Government Publication Date: 1886 - Sep 2020 **Delisted Fuel Tanks:**

company map; or from submitted a "Report of Work".

Environmental Activity and Sector Registry:

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information. Government Publication Date: May 31, 2021

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- Jun 30, 2021

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

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- Jun 30, 2021

Environmental Compliance Approval:

Environmental Registry:

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- Jun 30, 2021

Environmental Effects Monitoring:

ERIS Historical Searches:

191

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 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-Jun 30, 2021

Environmental Issues Inventory System:

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*

Provincial

Provincial

DTNK

FBR

FCA

EEM

EHS

FIIS

Provincial

Provincial

Provincial

Federal The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of

Private

Federal

DRI

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Fuel Storage Tank: Provincial FST List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products

province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information. Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Government Publication Date: May 31, 2018

Government Publication Date: Jul 31, 2020

Fisheries & Oceans Fuel Tanks: Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank

contents & capacity, and date of tank installation. Government Publication Date: 1964-Sep 2019

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. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern. Government Publication Date: Jun 2000-Apr 2021

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

Federal

been removed from the ground. Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

FCON

Government Publication Date: Jul 31, 2020

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental

Federal Contaminated Sites on Federal Land: FCS

Federal Convictions: 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*

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

Emergency Management Historical Event: 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

Environmental Penalty Annual Report:

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020 List of Expired Fuels Safety Facilities:

Provincial

reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017. Government Publication Date: Dec 31, 2016

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

EPAR

Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have

Provincial

FMHF

FOFT

FRST

Federal

Federal

Order No: 21081100468

Fuel Storage Tank - Historic:

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:

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-Apr 30, 2021

Greenhouse Gas Emissions from Large Facilities:

dioxide equivalents (kt CO2 eq). Government Publication Date: 2013-Dec 2019

Provincial **TSSA Historic Incidents:** HINC List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here. Government Publication Date: 2006-June 2009*

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon

Indian & Northern Affairs Fuel Tanks: The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario:

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: 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 include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

193

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*

Federal

Provincial

Provincial

Federal

Provincial

Provincial

Private

FSTH

GEN

GHG

IAFT

INC

LIMO

Mineral Occurrences:

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-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

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: 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.

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks:

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*

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

National Defense & Canadian Forces Spills:

under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered. Government Publication Date: Mar 1999-Apr 2018

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.

jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board

National Defence & Canadian Forces Waste Disposal Sites:

Government Publication Date: 2008-Mar 31, 2021

National Energy Board Wells:

194

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.

(NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal

Government Publication Date: 1920-Feb 2003*

Provincial

MNR

NATE

NDFT

NDSP

NDWD

NFBI

NEBP

Federal

Provincial

Federal

Federal

Federal

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified

Federal

Federal

National Environmental Emergencies System (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:

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:

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. Government Publication Date: 1993-May 2017

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.

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

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells:

Oil and Gas Wells:

geology/stratigraphy table information, plus all water table information is also provide for each well record. Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites: 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:

195

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-Apr 30, 2021

Canadian Pulp and Paper: This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

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

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Federal

Federal

Private

Provincial

Federal

NFFS

NPCB

NPRI

OGWF

OOGW

ORD

PAP

PCFT

Provincial

Provincial 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

Private

Federal

SPL

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: 1986-1990, 1992-2018 Provincial Record of Site Condition: RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental

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-Jun 2021

Retail Fuel Storage Tanks:

Private Scott's Manufacturing Directory: SCT

the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Aug 2020

Pesticide Register:

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Jun 30, 2021

Pipeline Incidents:

Permit to Take Water:

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness. Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: 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*

Ontario Regulation 347 Waste Receivers Summary:

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- Jun 30, 2021

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

cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site

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-Dec 31, 2020

Government Publication Date: 1992-Mar 2011*

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

Ontario Spills:

196

Provincial

PES

PINC

PTTW

REC

Provincial

Provincial

Provincial

Provincial

Private

Provincial

Order No: 21081100468

Wastewater Discharger Registration Database:

sampling information is now collected and stored within the Sample Result Data Store (SRDS). Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks:

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.

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

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 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory:

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Jun 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

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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:

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: Apr 30, 2021

Provincial

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the

SRDS

TANK

TCFT

VAR

WDS

WDSH

Private

Federal

Provincial

Provincial

Provincial

Provincial

WWIS

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.

<u>Map Key:</u> 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.'

<u>Unplottables:</u> 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.

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Property Information

Date Completed:August 13, 2021Project Number:CT3243.00Project Property:8547 Grassy Brook Road
Project Property: 85/17 Grassy Brook Road
8547 Grassy Brook Road Port Robinson ON L0S 1K0 Coordinates:
Latitude: 43.03968265
Longitude: -79.13456677
UTM Northing: 4766910.07711 Metres
UTM Easting: 651952.38652 Metres
UTM Zone: UTM Zone 17T
Elevation: 163.64 m
Slope Direction: NE

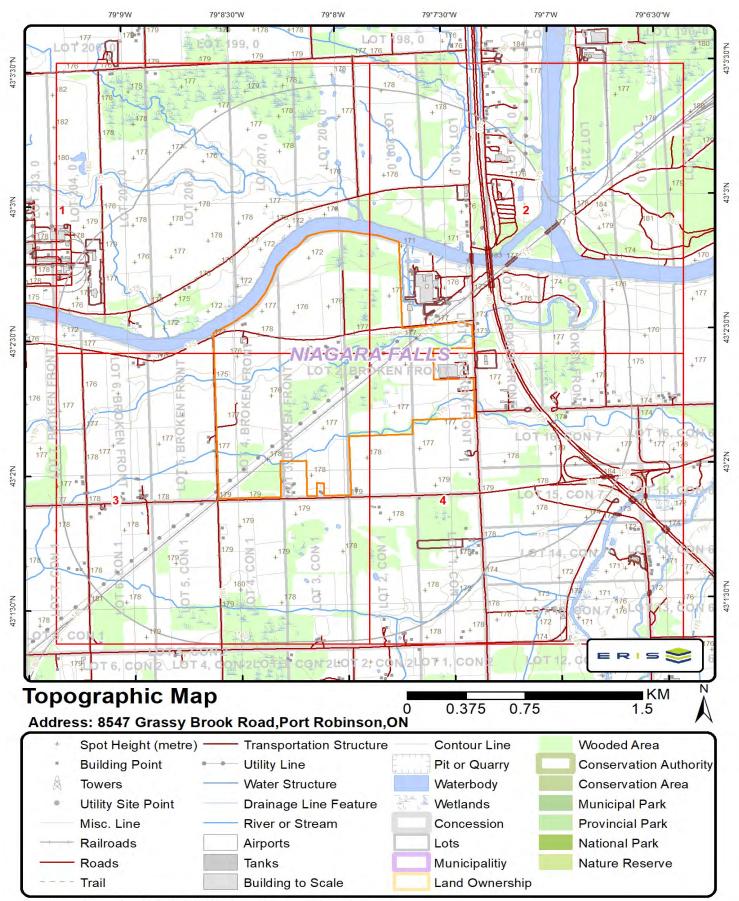
Property Information	
Topographic Information	2
Hydrologic Information	
Geologic Information	
Soil Information	
Wells and Additional Sources	
Report Summary	
Detail Report	
Radon Information	
Area of Natural and Scientific Interest	
Appendix	
Liability Notice	

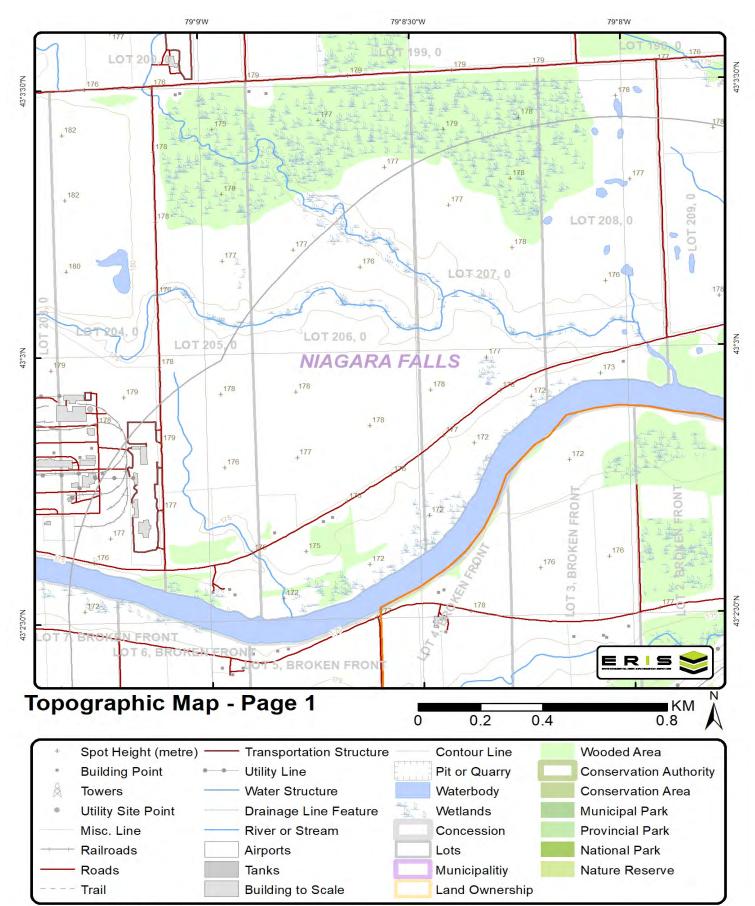
The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

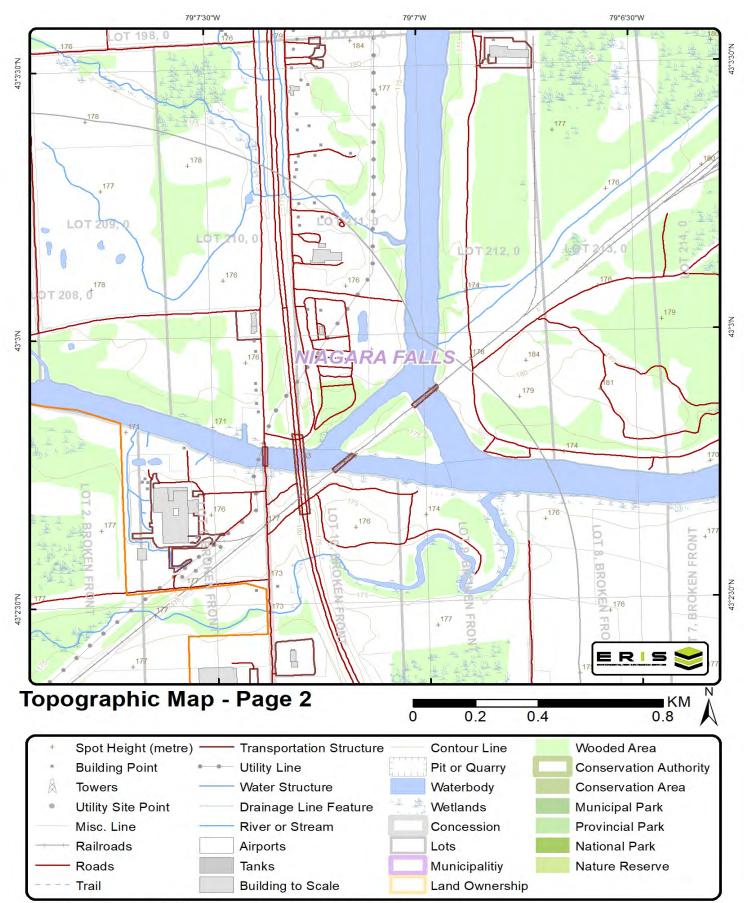
The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

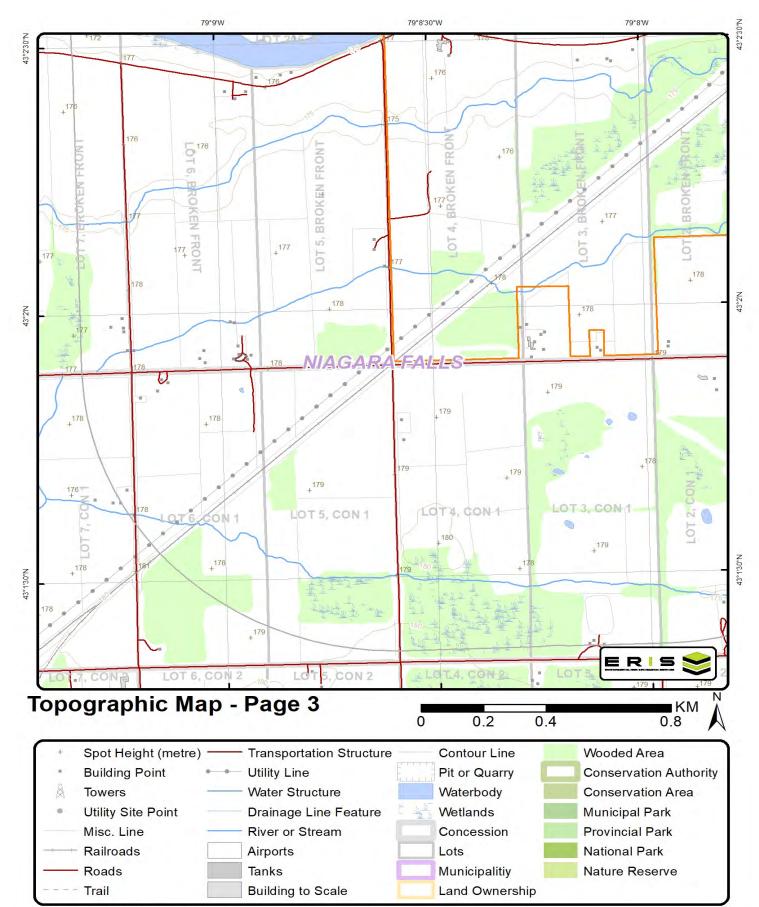
Disclaimer

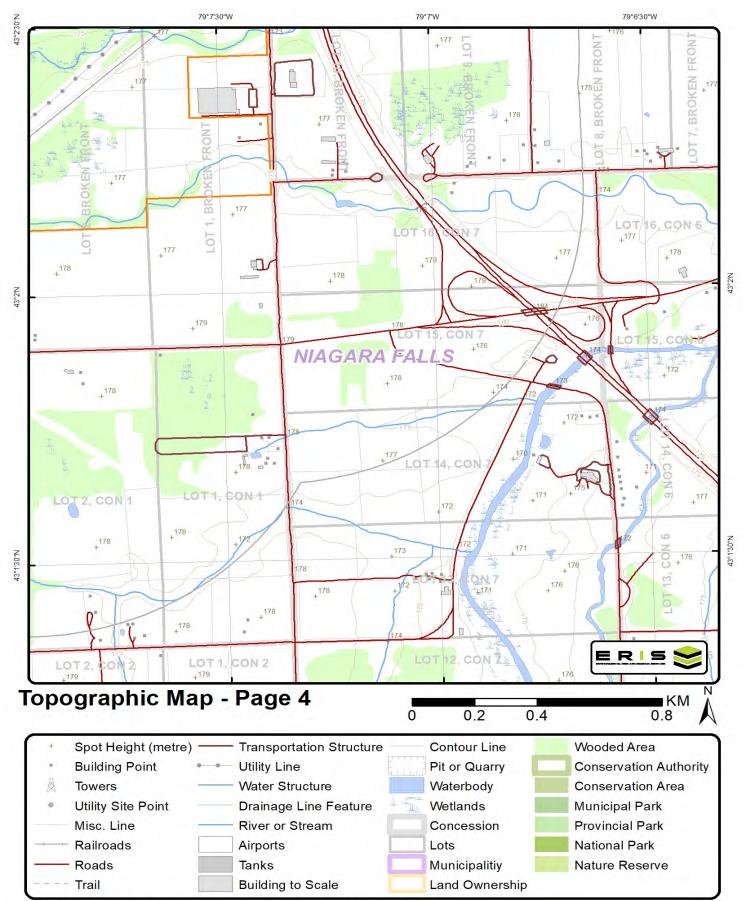
This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.





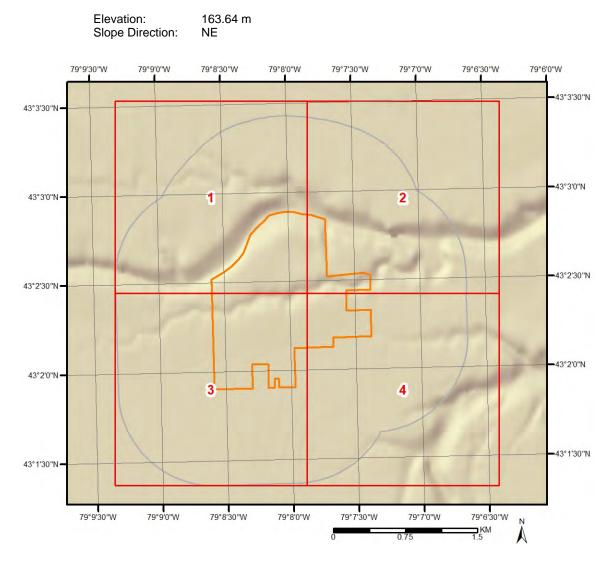


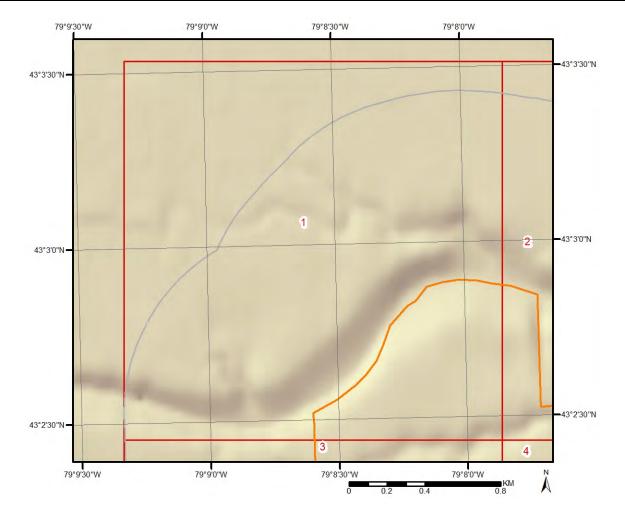


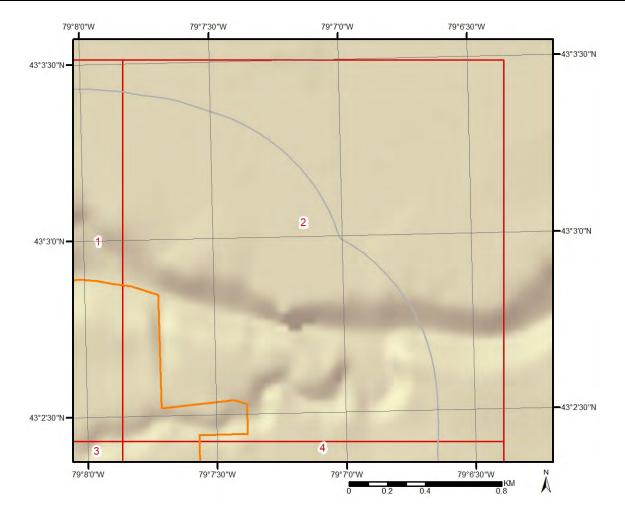


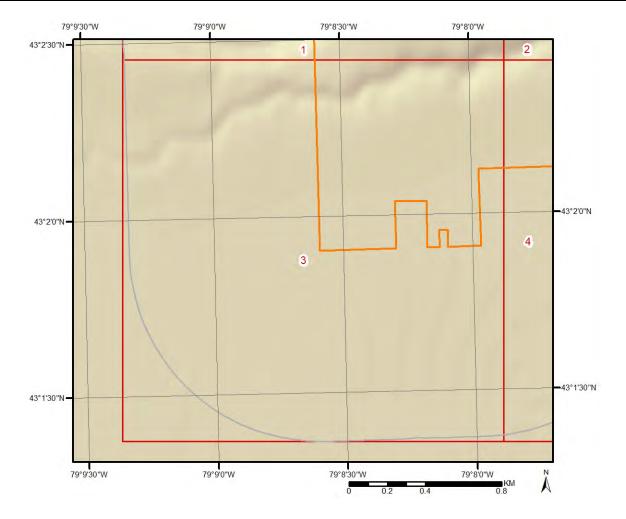
The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

Topographic information at project property:

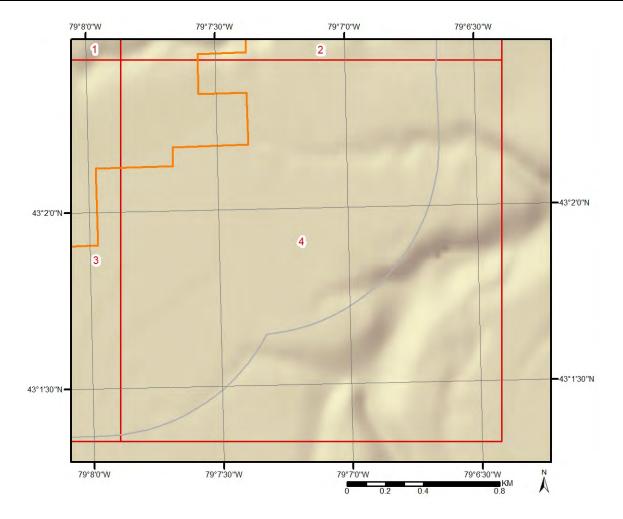




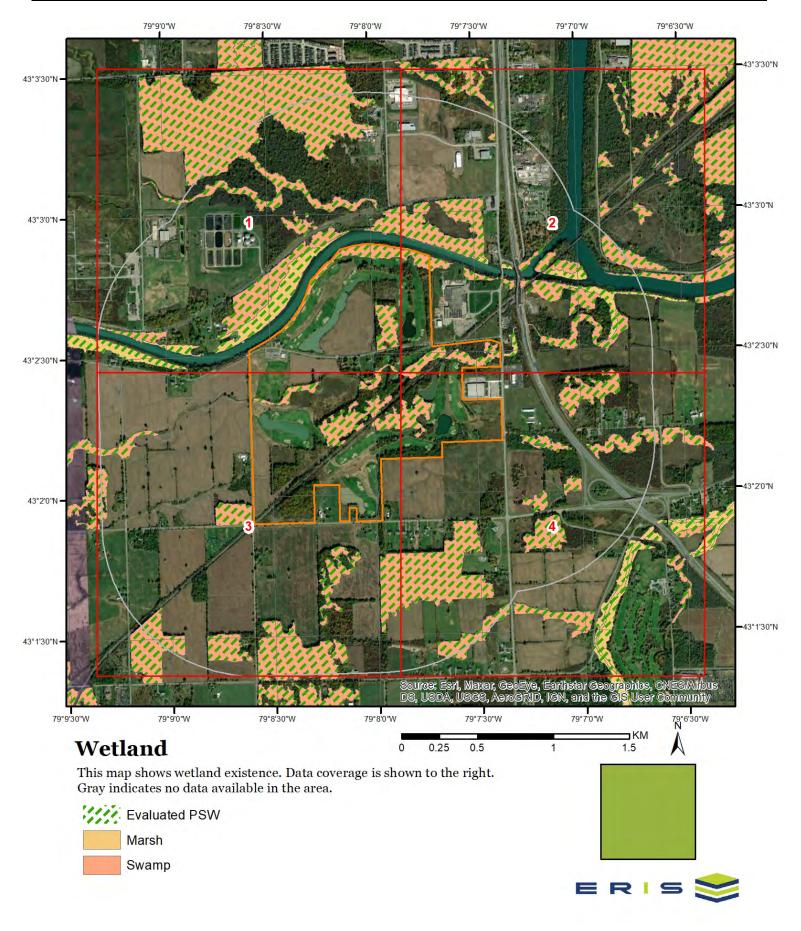


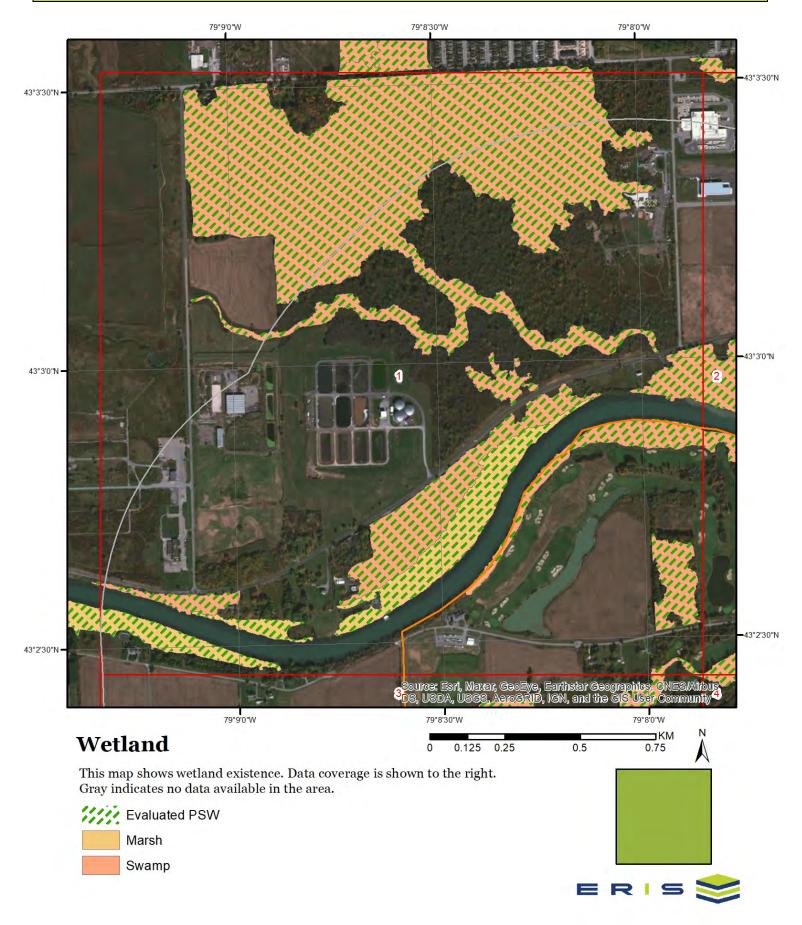


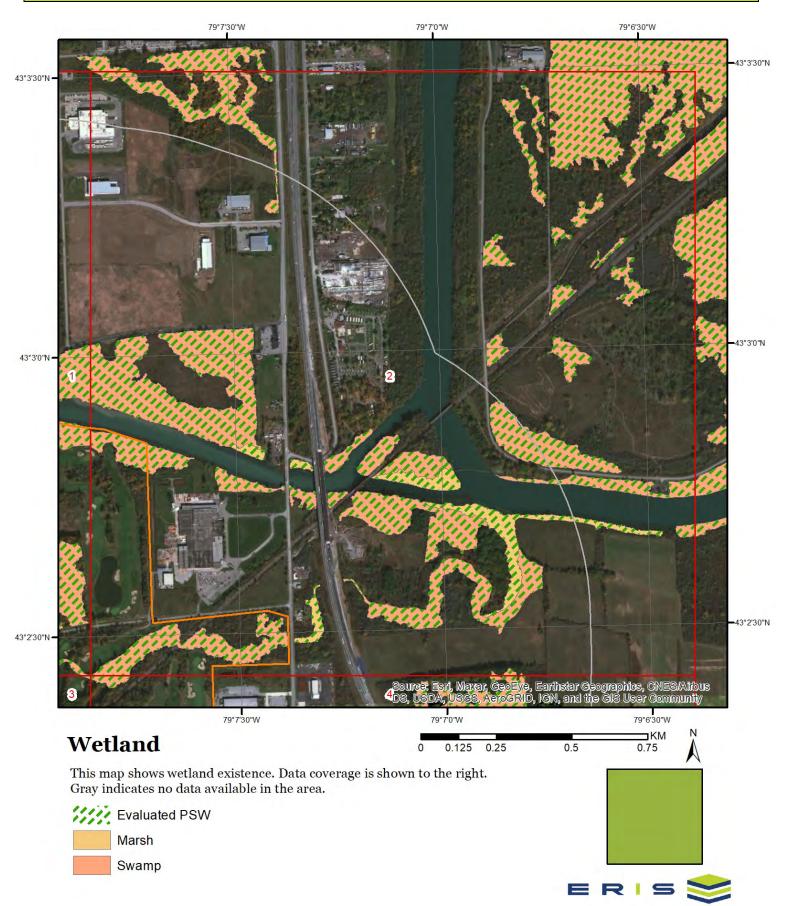
10

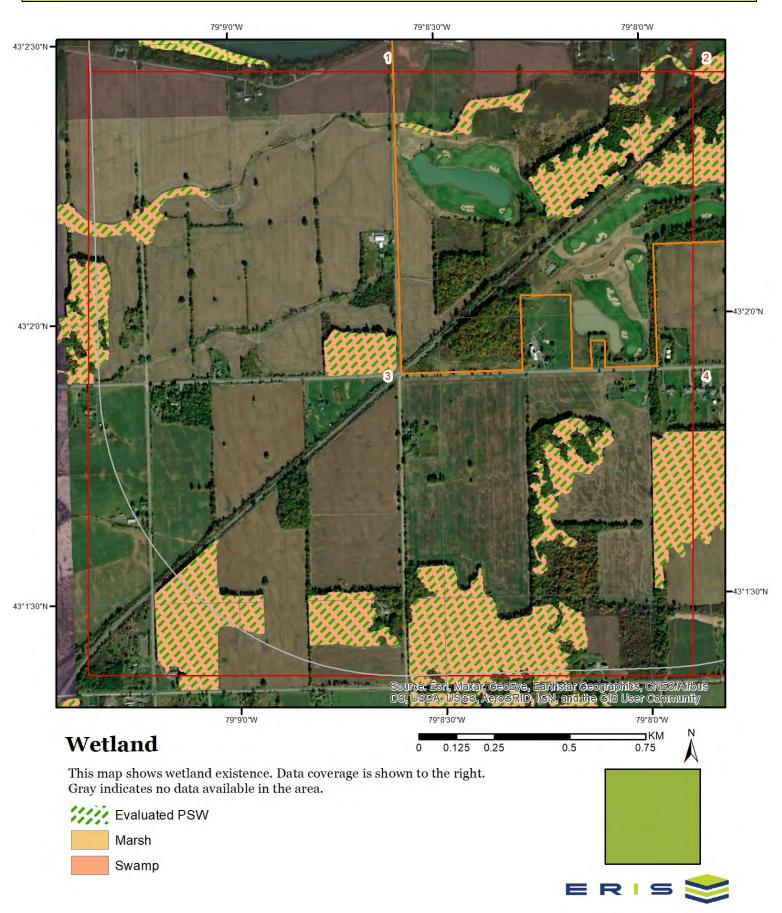


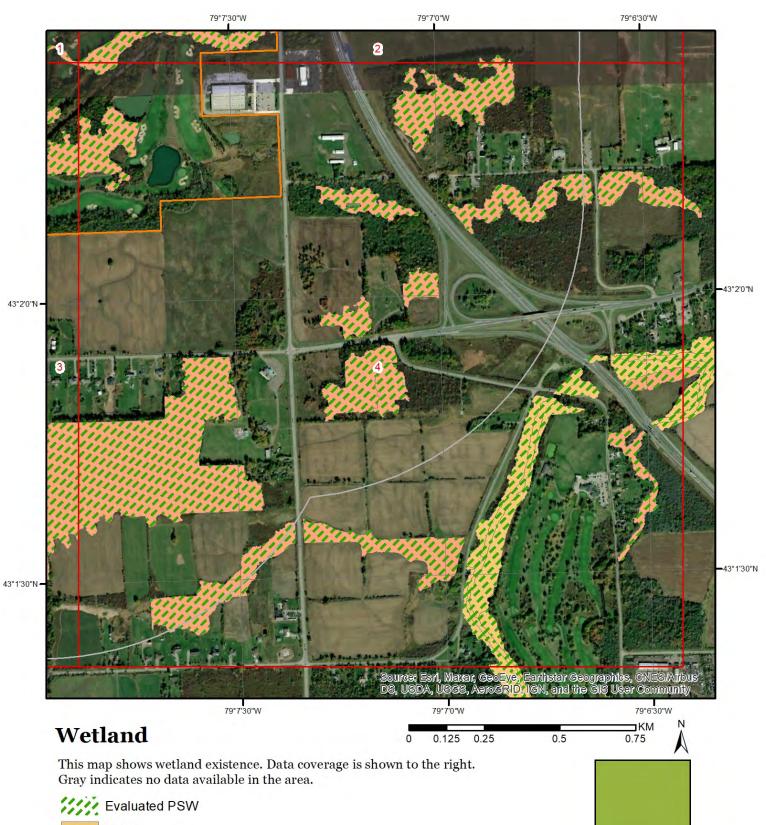
Hydrologic Information







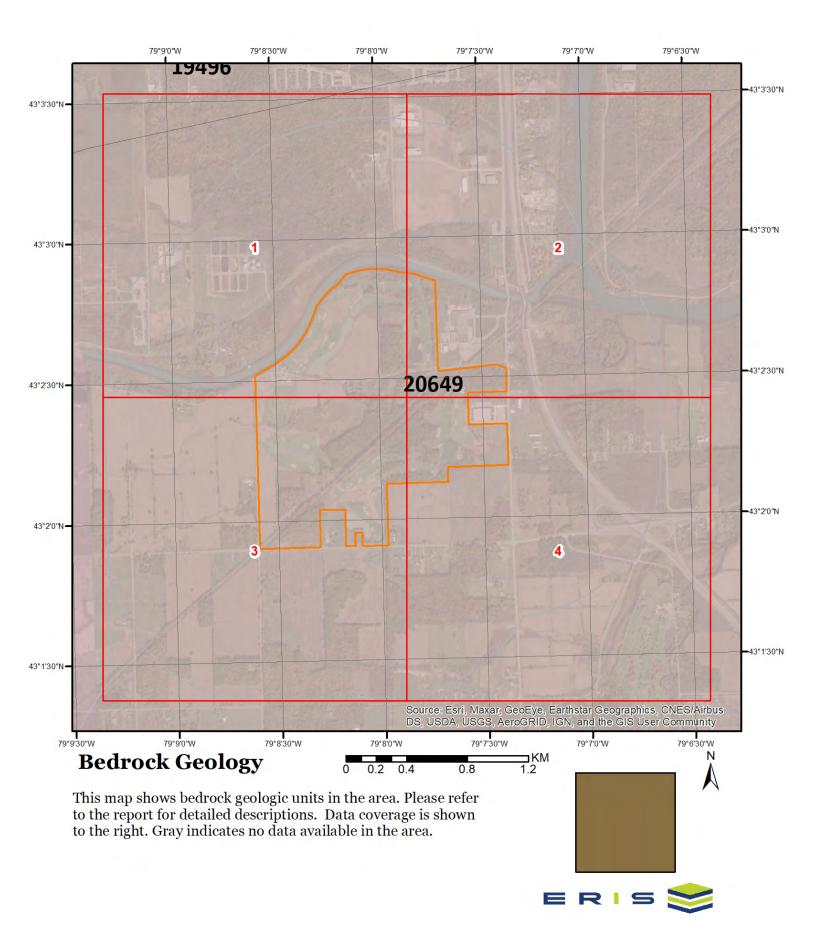


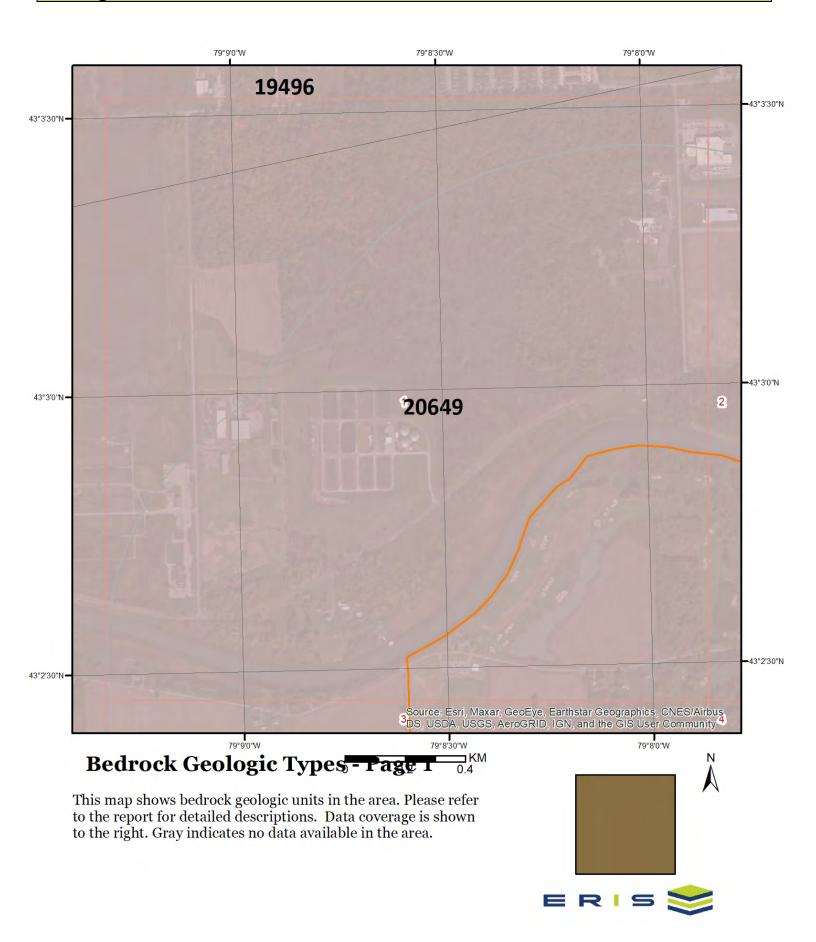


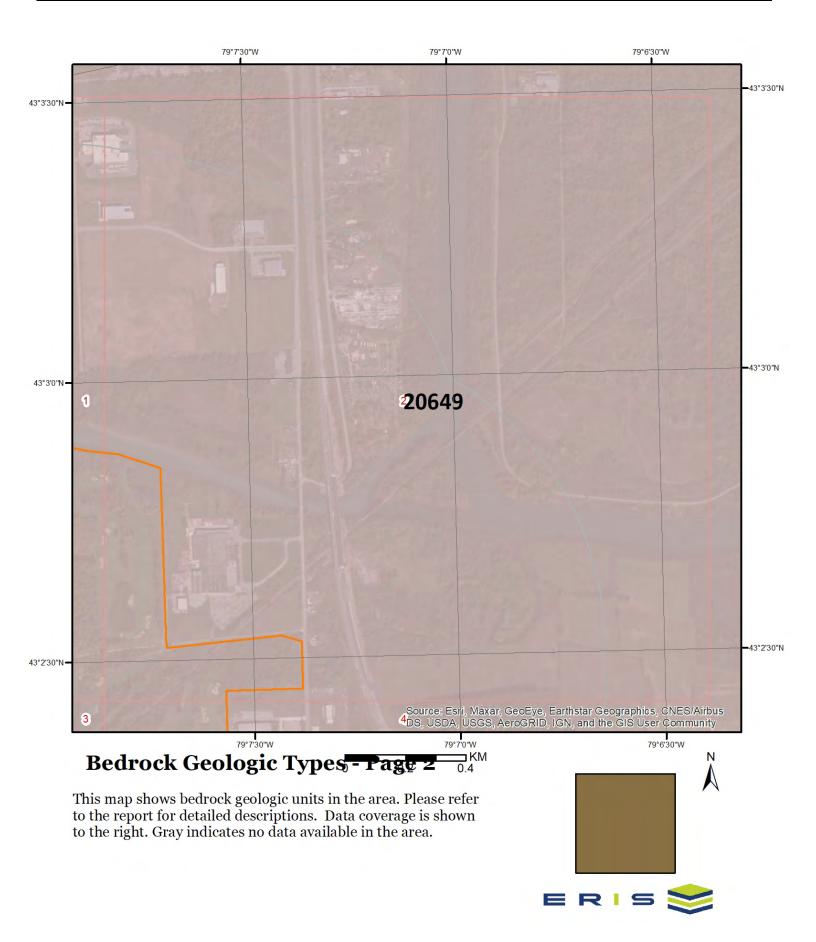
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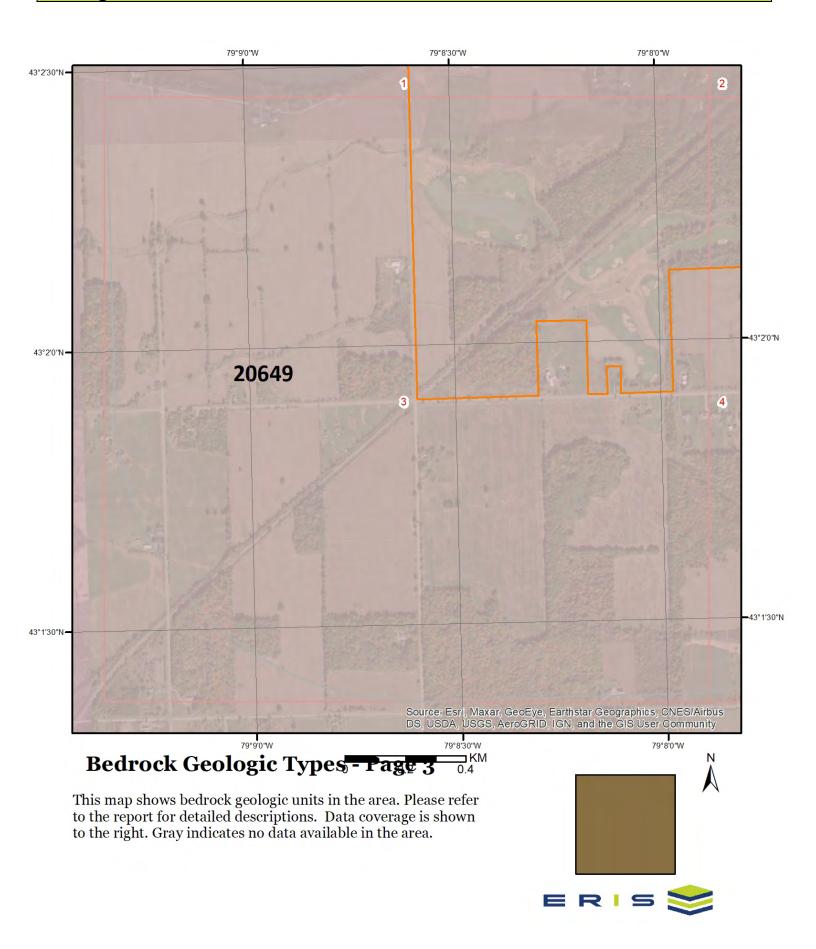
Marsh

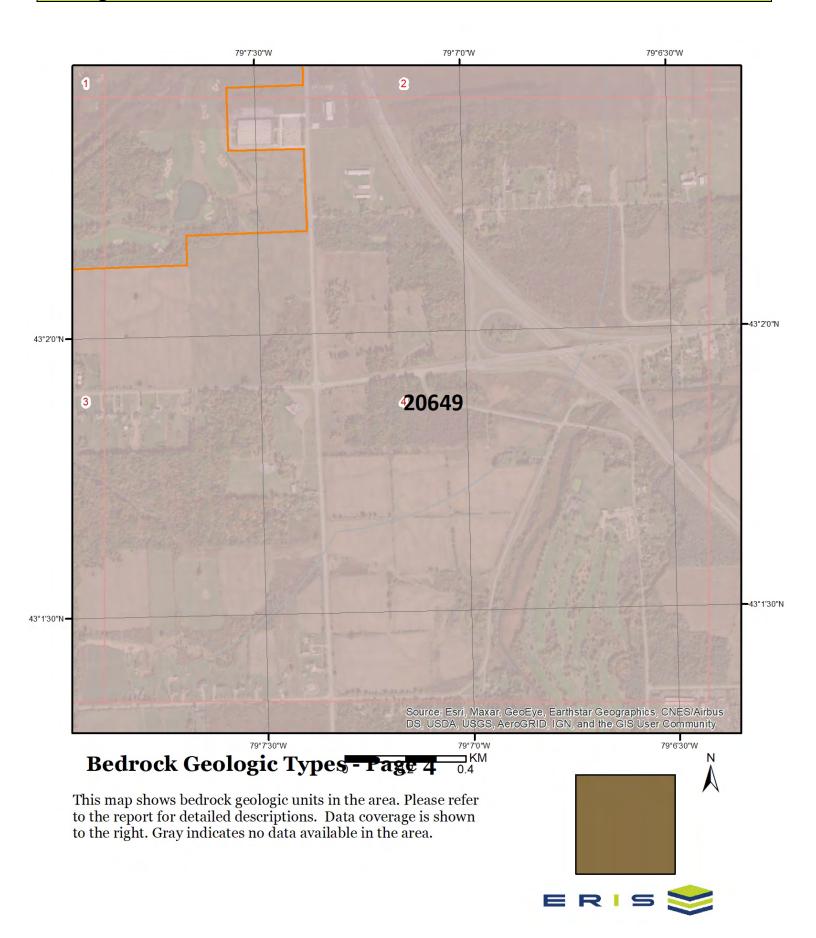
Swamp





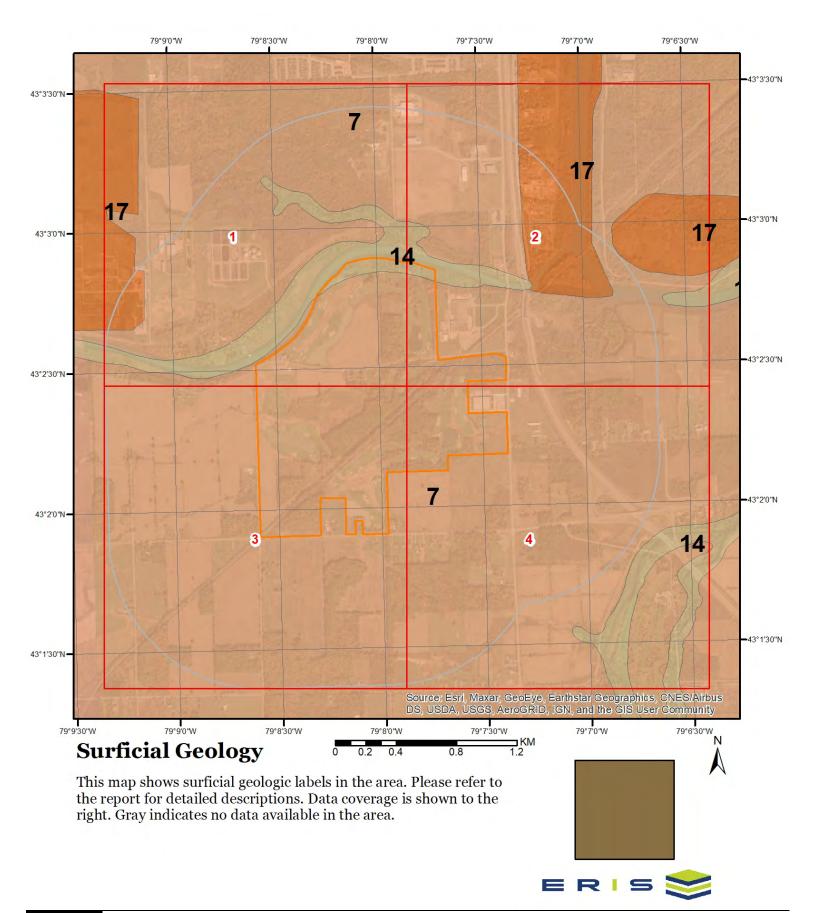


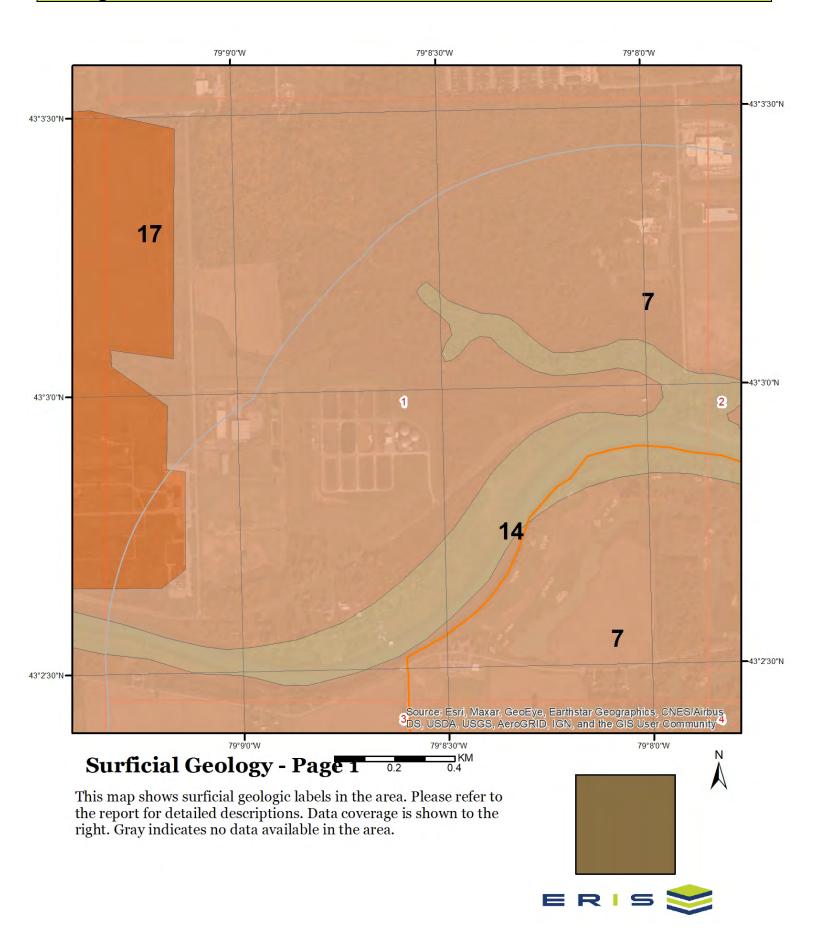


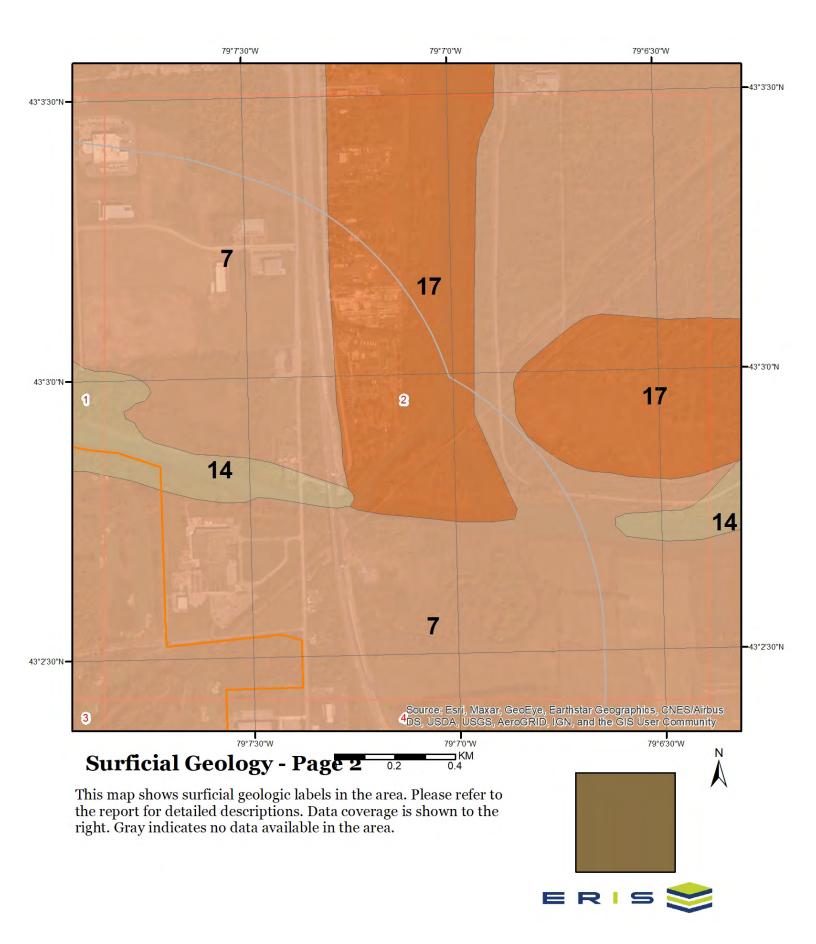


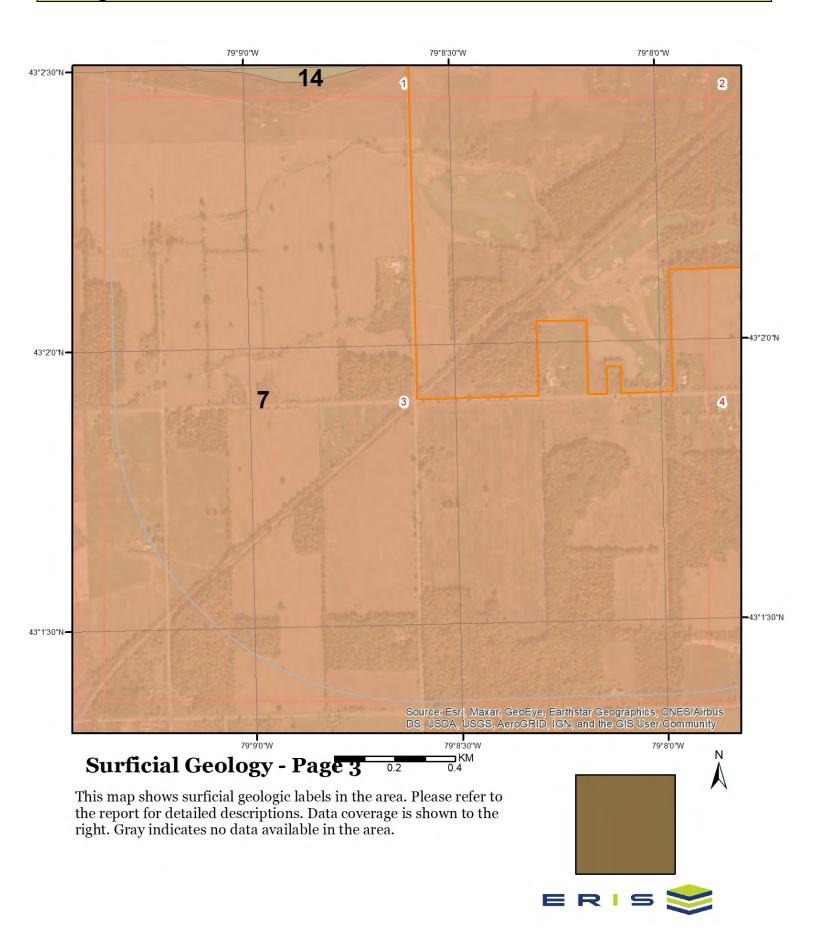
Detailed bedrock geology information about each unit within the search radius is provided below.

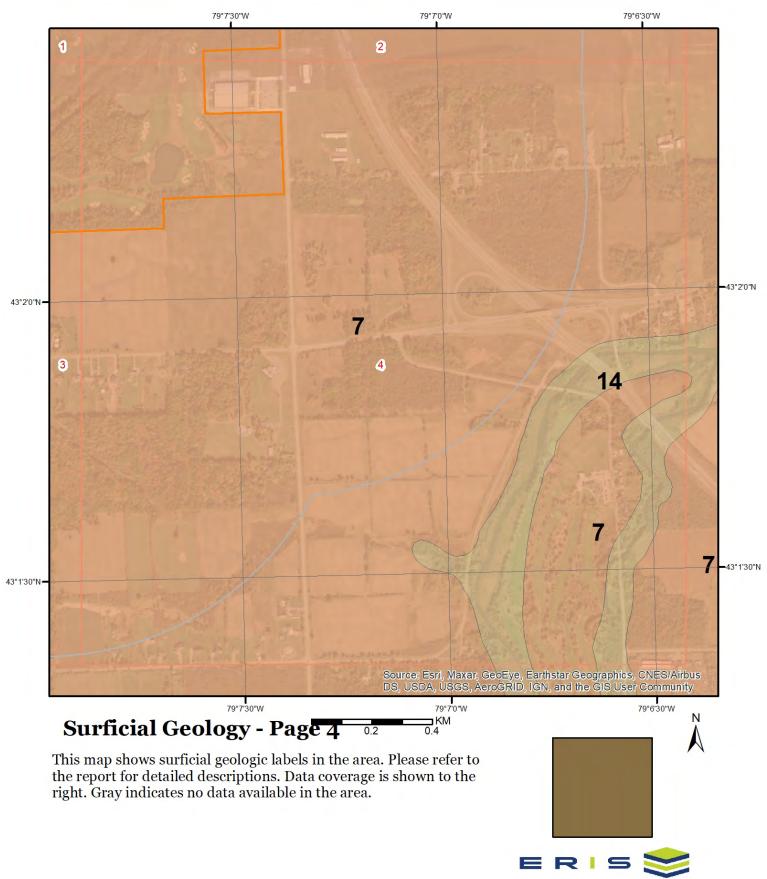
Unit ID 20649	
Unit Name:	
Rock Type:	Limestone, dolostone, shale, sandstone, gypsum, salt
Strata:	Salina Formation
Super Eon:	
Eon:	PHANEROZOIC (Present to 542.0 Ma)
Era:	PALEOZOIC (251.0 Ma to 542.0 Ma)
Period:	SILURIAN (416.0 Ma to 443.7 Ma)
Epoch:	UPPER SILURIAN
Province:	
Tectonic Zone:	











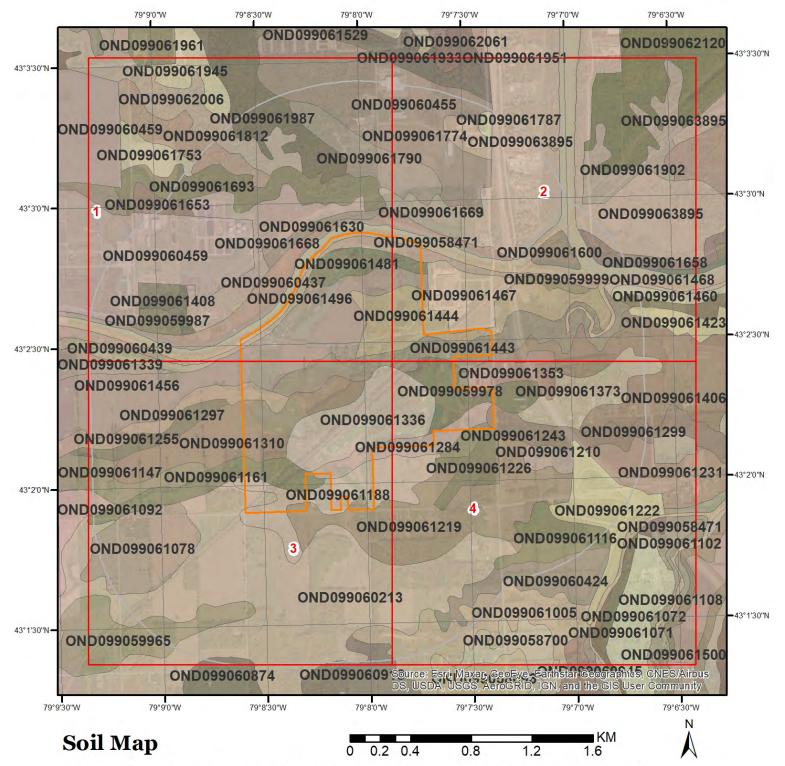
Detailed surficial geology information about each unit within the search radius is provided below.

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
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Low
Material Description:	Clay and silt
Unit ID 17 Geological Deposit:	Fill
Deposit Age:	Recent
Primary Material:	fill
Secondary Material:	
Primary General:	anthropogenic
Primary General Modifier:	
Veneer:	
Episode:	Hudson
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Fill
Unit ID 14	
Geological Deposit:	Modorn alluvium

Geological Deposit: Deposit Age: Primary Material: Secondary Material: Primary General:

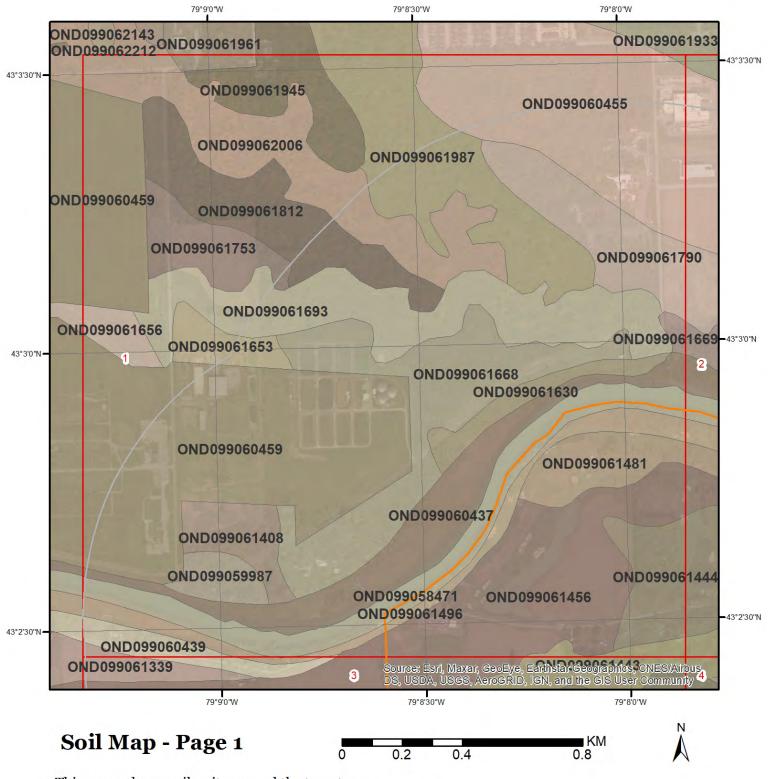
Modern alluvium Recent clay, silt, sand, gravel

Primary General Modifier:	modern floodplain
Veneer:	
Episode:	Hudson
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Clay, silt, sand and gravel, with organic matter

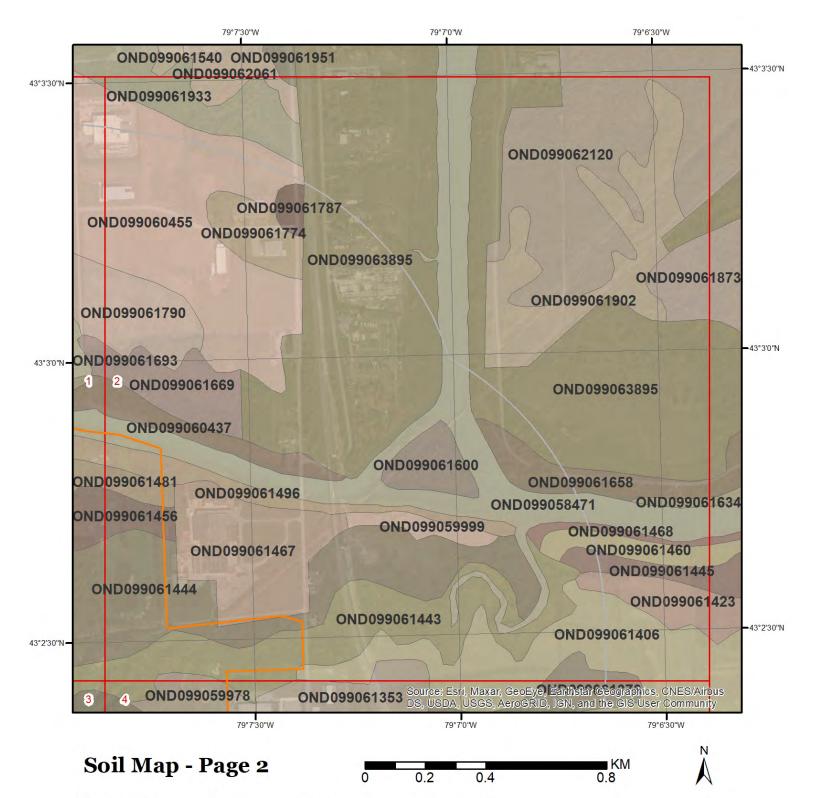


This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

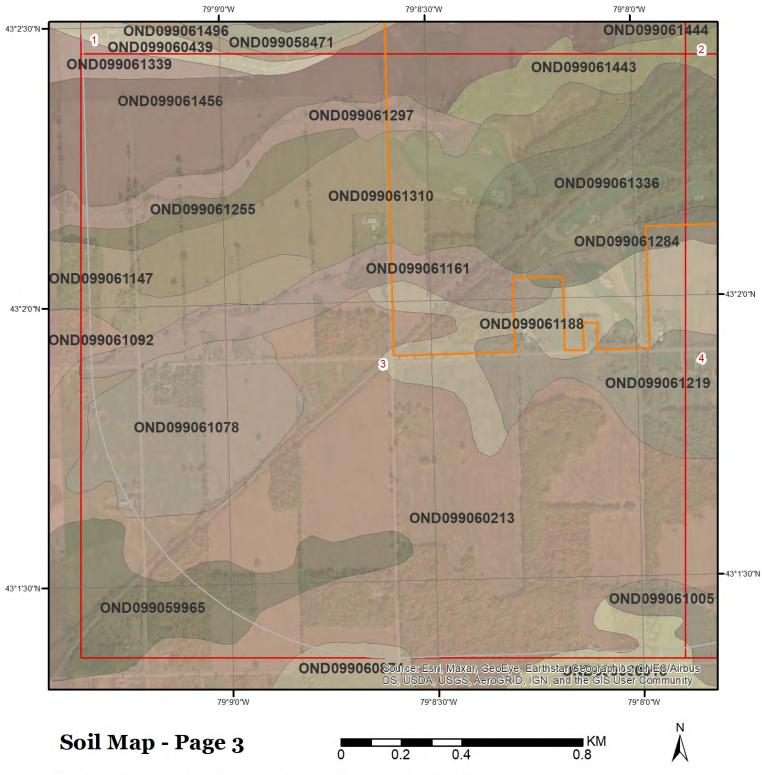




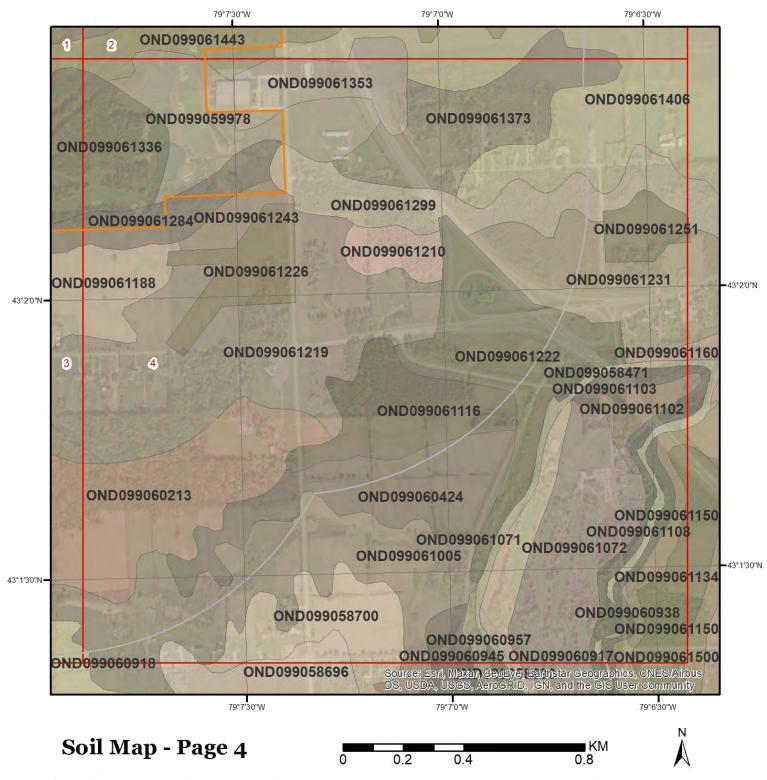
This maps shows soil units around the target property. Please refer to the report for detailed soil descriptions.



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



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



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

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

Ontario Detailed Soil Survey (DSS3)

Polygon ID: OND099061774

Component

Component ID:	OND09906177401	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15

Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(20/11)			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(20/11)			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	0		
Electrical Conductivity	0		

(dS/m):

```
Polygon ID:
```

OND099059999

Component

Component ID:	OND09905999901	Components(%):	100
Soil Name ID:	ONCSHHR~~~A	Slope Steepness(%):	12
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation	Presence of adverse Topography

Subclass:

Drainage: Soil Texture of A Horizon: Hydrological Soil Groups: Moderately Well clay

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:	CASHEL
Kind of Surface Material:	Mineral
Soil Drainage Class:	Moderately well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	Second layer
Type of Root Restricting Layer:	Undifferentiated
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; Moderately / Very Strongly Calcareous; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	5
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-22	Total Silt(%):	35
pH in Calc Chloride:	5.8	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	0.739	Organic Carbon(%):	7.1
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bm	Total Sand(%):	16
Depth(cm):	22-55	Total Silt(%):	35
pH in Calc Chloride:	5.4	Total Clay(%):	49
Saturated Hydraulic Conductivity(cm/h):	0.251	Organic Carbon(%):	1.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Bm	Total Sand(%):	20
Depth(cm):	55-100	Total Silt(%):	40
pH in Calc Chloride:	5.1	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.271	Organic Carbon(%):	0.4
Electrical Conductivity	0		

(dS/m): 37

Polygon ID:

<u>Component</u>

Component ID:	OND09906144401	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

OND099061444

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation Subclass: Drainage:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7

Conductivity(cm/h):

Electrical Conductivity 0 (dS/m):

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

Component

(dS/m):

Component ID:	OND09906144402	Components(%):	30
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic	0.2	Organic Carbon(%):	0.6
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1

Soil Information			
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		-	
Electrical Conductivity (dS/m):	1		
Polygon ID:	OND099061653		
<u>Component</u>			
Component ID:	OND09906165301	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitation	s on use for crops.	
First CLI Limitation Subclass:	Adverse soil structure (i.e. D	Depth of rooting zone is restricted)	
Second CLI Limitation			
Subclass:	Importoatly		
Drainage: Soil Texture of A	Imperfectly		
Horizon:			
Hydrological Soil			e soils typically are silty-loam soils with
Groups:	an impeding layer or soils w	ith moderately fine to fine texture.	
Soil Name			
Soil Name:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
Water Table	Unspecified period		
Charateristics: Layer that Restricts Root	No root restricting layer		

Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting	n/a
Layer: Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061669

Component

Component ID:	OND09906166901	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

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

Adverse soil structure (i.e. Depth of rooting zone is restricted)
Presence of adverse Topography
Imperfectly
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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0

Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099061753		
<u>Component</u>			
Component ID:	OND09906175301	Components(%):	70
Soil Name ID:		Slope Steeppess(%)	2.5

Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable

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

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

Soil Layer

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		,	
Electrical Conductivity (dS/m):	0		
(uo/iii).			

Component

Component ID:	OND09906175302	Components(%):	30
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	1 Ap 0-15 5.2 0.341 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 7 45 48 2.4
Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	2 Btg 15-34 6.5 0.2 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 3 28 69 0.6
Layer No:	3	Very Fine Sand(%):	0

Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Polygon ID:

OND099060437

Component

Component ID:	OND09906043701	Components(%):	100
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Subclass: Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics: Layer that Restricts Root Growth:	No root restricting layer

Type of Root Restricting	n/a
Layer:	
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition	Fluvial; Not Applicable; Not Applicable
1,2,3:	
Parent Material Chemical	Weakly Calcareous; Not Applicable; Not Applicable
Property 1,2,3:	

Soil Layer

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic	0.494	Organic Carbon(%):	3.9
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7
Conductivity(cm/h):	2		
Electrical Conductivity (dS/m):	0		
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Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
(00/11).			

Polygon ID:

OND099061481

Component

Component ID:	OND09906148101	Components(%):
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):
Component No:	1	Slope Length(m):
Surface Stoniness Class:	Nonstony	

Component Rating

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

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Soil Name

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

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33

Soil Information			
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):		3 (,-,)	
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):			
1	4		
Layer No:	4 Olari	Very Fine Sand(%):	0
Horizon:	Ckgj 50-100	Total Sand(%):	1 36
Depth(cm): pH in Calc Chloride:	7.7	Total Silt(%): Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		organic oarbon(70).	0
Electrical Conductivity (dS/m):	0		
(dS/m):			
Polygon ID:	OND099059987		
<u>Component</u>			
		•	
Component ID:	OND09905998701	Components(%):	100
Soil Name ID:	ONNGR~~~A	Slope Steepness(%):	3.5
Component No: Surface Stoniness	1 Nonstany	Slope Length(m):	-9
Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately sovere limitations on us	o for crops	
First CLI Limitation	moderately severe limitations on use for crops. Adverse soil structure (i.e. Depth of rooting zone is restricted)		
Subclass:			
Second CLI Limitation Subclass:			
Drainage:	Imperfectly		
Soil Texture of A			
Horizon:	Soilo with alow infiltration rates when	n thoroughly wattach and the	coile tunically are aity loans acity with
Hydrological Soil Groups:	an impeding layer or soils with mode		soils typically are silty-loam soils with
		-	

Soil Name

Soil Name:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

Polygon ID: OND099061408

Component

Component ID:	OND09906140801	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7

Electrical Conductivity (dS/m):

0

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

Component

(dS/m):

Component ID:	OND09906140802	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation Subclass:	Very severe limitations preclude annual cultivation; improvements feasible. Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic Conductivity(cm/h):	0.311	Organic Carbon(%):	1
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h):	0.391	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32

Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
Polygon ID:	OND099061668		
<u>Component</u>			
Component ID:	OND09906166801	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitation	s on use for crops.	
First CLI Limitation Subclass: Second CLI Limitation	Adverse soil structure (i.e. D	epth of rooting zone is restricted)	
Subclass: Drainage:	Imperfectly		
Soil Texture of A	mponoony		
Horizon:			
Hydrological Soil Groups:		es when thoroughly wetted and these the moderately fine to fine texture.	e soils typically are silty-loam soils wit
Soil Name			
Soil Name:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
Water Table Charateristics:	Unspecified period		
Layer that Restricts Root Growth:	No root restricting layer		
Type of Root Restricting Layer:	n/a		
Parent Material 1, 2, 3:	Very Fine; Not Applicable; N		
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applica	able; Not Applicable	
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly C	Calcareous; Not Applicable; Not Appli	cable
Soil Layer			
Layer No:	1	Very Fine Sand(%):	3
		,	

15

	0.45		40
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity	0		
(dS/m):	-		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	<u>^</u>		
Electrical Conductivity (dS/m):	0		
(dom).			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
(uonii).			

Component

Component ID:	OND09906166802	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe 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
Brainage.	mponoony

Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0

Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099061987

Component

Polygon ID:

Component ID:	OND09906198701	Components(%):	100
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation	moderately severe limitations on use for crops.
Subclass: Second CLI Limitation	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity _(dS/m):	1		

Polygon ID:

OND099060459

Component

Component ID:	OND09906045901	Components(%):	100
Soil Name ID:	ONZUN~~~~N	Slope Steepness(%):	Unknown or Not applicable
Component No:	1	Slope Length(m):	-9
Surface Stoniness	Not Applicable		

Component Rating

Class:

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	n/a
Layer: Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
Mode of Deposition	Not Applicable; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

Polygon ID:

OND099061188

Component

Component ID:	OND09906118801	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36

pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	7.7 0.193 0	Total Clay(%): Organic Carbon(%):	63 0
Polygon ID:	OND099061353		
<u>Component</u>			
Component ID:	OND09906135301	Components(%):	100
Soil Name ID:	ONZUN~~~~N	Slope Steepness(%):	Unknown or Not applicable

Component No: Surface Stoniness Class:

ONZUN~~~~N 1

Not Applicable

Slope Steepness(%): Slope Length(m):

Unknown or Not applicable -9

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	n/a
Layer: Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
	Not Applicable, Not Applicable, Not Applicable
Mode of Deposition	Not Applicable; Not Applicable; Not Applicable
1,2,3:	
Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

Polygon ID:

OND099061299

Component

Component ID:	OND09906129901	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4

Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	15-31 6.5 0.189 0	Total Silt(%): Total Clay(%): Organic Carbon(%):	33 63 2.4
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.193 0	Organic Carbon(%):	0
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.193 0	Organic Carbon(%):	0

Component

Component ID:	OND09906129902	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation Subclass: Drainage:	Very severe limitations preclude annual cultivation; improvements feasible. Subject to occasional flooding (Inundation) from adjacent streams or waterbodies Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	
Soil Name	
Soil Name:	ALLUVIUM

Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099060439

Component

Component ID:	OND09906043901	Components(%):	100
Soil Name ID:	ONOTI~~~~A	Slope Steepness(%):	12
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation	Presence of adverse Topography
Subclass: Drainage:	Moderately Well
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:	ONTARIO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
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:	Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	6
Horizon:	Ар	Total Sand(%):	55
Depth(cm):	0-15	Total Silt(%):	25
pH in Calc Chloride:	7	Total Clay(%):	20
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity	3.621 0	Organic Carbon(%):	2.1
(dS/m):	0		

Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bm	Total Sand(%):	31
Depth(cm):	15-18	Total Silt(%):	24
pH in Calc Chloride:	8	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	1.873	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	6
Horizon:	Bt	Total Sand(%):	45
Depth(cm):	18-45	Total Silt(%):	5
pH in Calc Chloride:	8	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	1.873	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	4
Horizon:	Ck	Total Sand(%):	8
Depth(cm):	45-100	Total Silt(%):	30
pH in Calc Chloride:	8	Total Clay(%):	62
Saturated Hydraulic Conductivity(cm/h):	3.083	Organic Carbon(%):	0.3
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099059965

Component

Component ID:	OND09905996501	Components(%):	70
Soil Name ID:	ONWLL~~~~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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26

oil Information			
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		
<u>Component</u>			
Component ID:	OND09905996502	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitations	s on use for crops.	
First CLI Limitation Subclass:	Adverse soil structure (i.e. D	epth of rooting zone is restricted)	
Second CLI Limitation Subclass:	Presence of adverse Topogr	aphy	

Drainage: Soil Texture of A Horizon: Hydrological Soil Imperfectly

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

Groups:

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

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43

Soil Information pH in Calc Chloride: 5.3 42 Total Clay(%): 0.256 0.7 Saturated Hydraulic Organic Carbon(%): Conductivity(cm/h): 0 **Electrical Conductivity** (dS/m): 2 0 Layer No: Very Fine Sand(%): Horizon: Btgj Total Sand(%): 4 Total Silt(%): 33 Depth(cm): 15-31 63 pH in Calc Chloride: 6.5 Total Clay(%): **Saturated Hydraulic** 0.189 Organic Carbon(%): 2.4 Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m): 3 Layer No: Very Fine Sand(%): 0 Ckgj 1 Horizon: Total Sand(%): Depth(cm): 31-50 Total Silt(%): 35 7.7 64 pH in Calc Chloride: Total Clay(%): **Saturated Hydraulic** 0.193 Organic Carbon(%): 0 Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m): 4 0 Layer No: Very Fine Sand(%): 1 Horizon: Ckgj Total Sand(%): 50-100 36 Depth(cm): Total Silt(%): pH in Calc Chloride: 7.7 Total Clay(%): 63 **Saturated Hydraulic** 0.193 Organic Carbon(%): 0 Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m):

Polygon ID:

OND099061243

Component

Component ID:	OND09906124301	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)

Drainage: Soil Texture of A Horizon: Hydrological Soil Groups: Imperfectly

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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1.2.3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

1 Ap 0-15 5.3	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%):	3 15 43 42 0.7
0	Organic Carbon(%).	0.7
2	Very Fine Sand(%):	0
Btgj	Total Sand(%):	4
15-31	Total Silt(%):	33
6.5	Total Clay(%):	63
0.189 0	Organic Carbon(%):	2.4
3	Very Fine Sand(%):	0
Ckgj	Total Sand(%):	1
31-50	Total Silt(%):	35
7.7	Total Clay(%):	64
0.193 0	Organic Carbon(%):	0
	Ap 0-15 5.3 0.256 0 2 Btgj 15-31 6.5 0.189 0 3 Ckgj 31-50 7.7 0.193	ApTotal Sand(%):0-15Total Silt(%):5.3Total Clay(%):0.256Organic Carbon(%):002Very Fine Sand(%):BtgjTotal Sand(%):15-31Total Silt(%):6.5Total Clay(%):0.189Organic Carbon(%):003Very Fine Sand(%):CkgjTotal Sand(%):31-50Total Silt(%):7.7Total Clay(%):0.193Organic Carbon(%):

Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099061226

Component

Polygon ID:

Component ID:	OND09906122601	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 Charateristics:	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:

Component

Component ID:	OND09906121901	Components(%):	70
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation	moderately severe limitations on use for crops.
Subclass: Second CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity	0		

(dS/m):

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h):	2 Btg 15-34 6.5 0.2	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 3 28 69 0.6
Electrical Conductivity (dS/m):	0		
	_		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Component

Component ID:	OND09906121902	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe 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: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
		· · ·	
pH in Calc Chloride:	7.7	Total Clay(%):	63

Saturated Hydraulic	0.193	Organic Carbon(%):	0	
Conductivity(cm/h):				
Electrical Conductivity (dS/m):	0			
Polygon ID:	OND099061005			
<u>Component</u>				
Component ID:	OND09906100501	Components(%):	70	
Soil Name ID:	ONCSHHR~~~A	Slope Steepness(%):	7	
Component No:	1	Slope Length(m):	-9	
Surface Stoniness Class:	Nonstony			
Component Rating				
Field Crops Capability:	moderately severe limitation	s on use for crops.		
First CLI Limitation	Adverse soil structure (i.e. Depth of rooting zone is restricted)			
Subclass: Second CLI Limitation	Presence of adverse Topography			
Subclass: Drainage:	Moderately Well			
Soil Texture of A	clay			
Horizon: Hydrological Soil Groups:		es when thoroughly wetted and these th moderately fine to fine texture.	e soils typically are silty-loam soils with	
<u>Soil Name</u>				
Soil Name:	CASHEL			
Kind of Surface Material:	Mineral			
Soil Drainage Class:	Moderately well drained			
Water Table Charateristics:	Unspecified period			
Layer that Restricts Root Growth:	Second layer			
Type of Root Restricting Layer:	Undifferentiated			
Parent Material 1, 2, 3:	Moderately Fine; Fine; Not A	applicable		
Mode of Deposition 1,2,3:	Glaciolacustrine; Till (Morain	al); Not Applicable		
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly C	Calcareous; Moderately / Very Strong	ly Calcareous; Not Applicable	

Layer No:	1	Very Fine Sand(%):	5
Horizon:	Ар	Total Sand(%):	15

Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0-22 5.8 0.739 0	Total Silt(%): Total Clay(%): Organic Carbon(%):	35 50 7.1
Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	2 Bm 22-55 5.4 0.251 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	6 16 35 49 1.5
Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	3 Bm 55-100 5.1 0.271 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	7 20 40 40 0.4

Component

Component ID:	OND09906100502	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation Subclass: Drainage:	Very severe limitations preclude annual cultivation; improvements feasible. Subject to occasional flooding (Inundation) from adjacent streams or waterbodies Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	
Soil Name	
Soil Name:	ALLUVIUM

Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Soil Layer

	4		40
Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099060213

Component

Component ID:	OND09906021301	Components(%):	100
Soil Name ID:	ONWLL~~~~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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity	0		

(dS/m):

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Polygon ID:

OND099061787

Component

Component ID:	OND09906178701	Components(%):	50
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation	Very severe limitations preclude annual cultivation; improvements feasible. Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Subclass: Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil	

Groups:

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Laver No:	1	Very Fine Sand(%):	10
Horizon:		•	15
	Ap	Total Sand(%):	-
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h):	0.391	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18

Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906178702	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15

	0-15		43
Depth(cm):		Total Silt(%):	
pH in Calc Chloride:	5.3	Total Clay(%):	
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity	0		
(dS/m):			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):			
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	_		
Electrical Conductivity (dS/m):	0		

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Polygon ID:
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OND099061812

Component

Component ID:	OND09906181201	Components(%):	50
Soil Name ID:	ONNGR~~~~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	Adverse soil structure (i.e. Depth of rooting zone is restricted)

Subclass:

Drainage: Soil Texture of A Horizon: Hydrological Soil Groups: Imperfectly

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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906181202	Components(%):	50
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	1		

Polygon ID:

OND099063895

Component

Component ID:	OND09906389501	Components(%):	100
Soil Name ID:	ONZUN~~~~N	Slope Steepness(%):	Unknown or Not applicable
Component No:	1	Slope Length(m):	-9
Surface Stoniness	Not Applicable		

Component Rating

Class:

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 Charateristics:	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:

OND099061467

Component

Component ID:	OND09906146701	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 Charateristics:	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:

OND099061406

Component

Component ID:	OND09906140601	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Gilalatelistics.	

Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	Ŭ		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		

Polygon ID:

OND099061255

Component

Component ID:	OND09906125501	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ap	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.256 0	Organic Carbon(%):	0.7
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4

Soil Information 15-31 Total Silt(%): 33 Depth(cm): 63 pH in Calc Chloride: 6.5 Total Clay(%): Saturated Hydraulic 0.189 Organic Carbon(%): 2.4 Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m): Layer No: 3 Very Fine Sand(%): 0 Horizon: Total Sand(%): 1 Ckgj 31-50 35 Depth(cm): Total Silt(%): pH in Calc Chloride: 7.7 Total Clay(%): 64 0 Saturated Hydraulic 0.193 Organic Carbon(%): Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m): 4 Very Fine Sand(%): 0 Layer No: Horizon: Ckgj Total Sand(%): 1 Depth(cm): 50-100 Total Silt(%): 36 pH in Calc Chloride: 7.7 Total Clay(%): 63 Saturated Hydraulic 0.193 Organic Carbon(%): 0 Conductivity(cm/h): **Electrical Conductivity** 0 (dS/m):

Polygon ID:

OND099061297

Component

Component ID:	OND09906129701	Components(%):	50
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic	0.494	Organic Carbon(%):	3.9
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):			

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Component

Component ID:	OND09906129702	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.256 0	Organic Carbon(%):	0.7

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061496

Component

Component ID:	OND09906149601	Components(%):	100
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic Conductivity(cm/h):	0.311	Organic Carbon(%):	1
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h):	0.391	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50

pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic	0.218	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099061790		
<u>Component</u>			
Component ID:	OND09906179001	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitation	ns on use for crops.	
First CLI Limitation Subclass: Second CLI Limitation Subclass:		Depth of rooting zone is restricted)	
Drainage:	Imperfectly		
Soil Texture of A Horizon:			
Hydrological Soil Groups:		tes when thoroughly wetted and thes ith moderately fine to fine texture.	se soils typically are silty-loam soils wit
<u>Soil Name</u>			
Soil Name:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
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:	Very Fine; Not Applicable; N		
Mode of Deposition	Glaciolacustrine; Not Applic	able; Not Applicable	
1,2,3:			

Layer No:	1	Very Fine Sand(%):	3

Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906179002	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography

Drainage: Soil Texture of A Horizon: Hydrological Soil Groups: Imperfectly

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

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h):	1 Ap 0-15 5.3 0.256	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	3 15 43 42 0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.189 0	Organic Carbon(%):	2.4
(uo/iii).			
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099062006

Component

Polygon ID:

Component ID:	OND09906200601	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ap	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	ہ د 0.7
Conductivity(cm/h):	0.230	Organic Carbon(76).	0.7
Electrical Conductivity	0		
(dS/m):			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
· · ·			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	č		

Component

Component ID:	OND09906200602	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: Very severe limitations preclude annual cultivation; improvements feasible.

First CLI Limitation Subclass: Second CLI Limitation Subclass: Drainage: Subject to occasional flooding (Inundation) from adjacent streams or waterbodies

Not Applicable

Soil Texture of A Horizon: Hydrological Soil Groups:

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics: Layer that Restricts Root	No root restricting layer
Growth:	
Type of Root Restricting Laver:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition	Fluvial; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
	2	Von Fine Sand(%)	14
Layer No:		Very Fine Sand(%):	•••
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic Conductivity(cm/h):	0.311	Organic Carbon(%):	1
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7

Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099061630		
<u>Component</u>			
Component ID:	OND09906163001	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
Component No:	1	Slope Length(m):	-9

Component Rating

Surface Stoniness

Class:

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable

Nonstony

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

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

Soil Layer

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099060424		

Component

Component ID:	OND09906042401	Components(%):	70
Soil Name ID:	ONPELHR~~~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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Soil Texture of A Horizon: Hydrological Soil Groups:	silty clay 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 Charateristics:	Unspecified period
Layer that Restricts Root Growth:	Second layer
Type of Root Restricting Layer:	Undifferentiated
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

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

Component

Component ID:	OND09906042402	Components(%):	30
Soil Name ID:	ONMATHR~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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 Charateristics:	Always
Layer that Restricts Root Growth:	Third layer
Type of Root Restricting	Compact Till

105

Layer:	
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

Layer No:	1	Very Fine Sand(%):	8
Horizon:	Ар	Total Sand(%):	25
Depth(cm):	0-28	Total Silt(%):	25
pH in Calc Chloride:	6	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	0.373	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Bg	Total Sand(%):	6
Depth(cm):	28-60	Total Silt(%):	49
pH in Calc Chloride:	5	Total Clay(%):	45
Saturated Hydraulic	0.196	Organic Carbon(%):	1.5
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Bmgj	Total Sand(%):	7
Depth(cm):	60-72	Total Silt(%):	48
pH in Calc Chloride:	7	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	0.25	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	2
Horizon:	Ckg	Total Sand(%):	21
Depth(cm):	72-100	Total Silt(%):	45
pH in Calc Chloride:	8	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.157	Organic Carbon(%):	0.1
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061284

Component

Component ID:

OND09906128401

Components(%):

50

Soil Name ID: **Component No: Surface Stoniness** Class:

ONALU~~~~A 1

Nonstony

Slope Steepness(%): Slope Length(m):

1

-9

Component Rating

Very severe limitations preclude annual cultivation; improvements feasible. Field Crops Capability: **First CLI Limitation** Subject to occasional flooding (Inundation) from adjacent streams or waterbodies **Second CLI Limitation** Not Applicable

Drainage: Soil Texture of A Horizon: **Hydrological Soil** Groups:

Soil Name

Subclass:

Subclass:

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23

Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.311 0	Organic Carbon(%):	1
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.391 0	Organic Carbon(%):	0.7
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.218 0	Organic Carbon(%):	0

Component

Component ID:	OND09906128402	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained

Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0	Ciganio Gaison(70).	5

Polygon ID:

OND099060874

Component

Component ID: Soil Name ID: Component No:	OND09906087401 ONWLL~~~~A 1	Components(%): Slope Steepness(%): Slope Length(m):	70 1 -9
Surface Stoniness Class:	' Nonstony	olope Lengin(in).	J
Component Rating			
Field Crops Capability: First CLI Limitation	moderately severe limitations or	use for crops.	

Subclass:	
Subclass: Second CLI Limitation	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Component

Component ID:	OND09906087402	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		

(dS/m): 112

Polygon ID:

OND099058471

Component

Component ID:	OND09905847101	Components(%):	100
Soil Name ID:	ONZZZ~~~~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:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	WATER
Kind of Surface Material:	True Non-soil
Soil Drainage Class:	Not applicable
Water Table Charateristics:	Not applicable
Layer that Restricts Root Growth:	Not applicable
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

Layer No:	1	Very Fine Sand(%):	-9
Horizon:		Total Sand(%):	-9
Depth(cm):	0-100	Total Silt(%):	-9
pH in Calc Chloride:	Not applicable	Total Clay(%):	-9
Saturated Hydraulic	Not applicable	Organic Carbon(%):	Not applicable

Conductivity(cm/h): Electrical Conductivity (dS/m):	Not applicable		
Polygon ID:	OND099061373		
<u>Component</u>			
Component ID:	OND09906137301	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitations	s on use for crops.	
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Adverse soil structure (i.e. De	epth of rooting zone is restricted)	
Drainage:	Imperfectly		
Soil Texture of A			
Horizon: 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:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
Water Table	Unspecified period		
Charateristics: Layer that Restricts Root	No root restricting layer		
Growth: Type of Root Restricting Layer:	n/a		
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not	ot Applicable	
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applica	ble; Not Applicable	
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly C	alcareous; Not Applicable; Not Appli	icable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15

	0.45	T. (. O'!! (9/)	40
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	-		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
(
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):			
Electrical Conductivity (dS/m):	0		
(dom).			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		•	
Electrical Conductivity	0		
(dS/m):			

Component

Component ID:	OND09906137302	Components(%):	50
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	2	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	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Drainage:	Poorly
Brainage.	1 oony

Soil Texture of A Horizon: Hydrological Soil Groups: silty clay

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

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		

Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	1		

(dS/m):

OND099061456

Component

Polygon ID:

Component ID:	OND09906145601	Components(%):	50
Soil Name ID:	ONNGR~~~~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	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Drainage:	Imperfectly
Soil Texture of A Horizon: Hydrological Soil	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with
Groups:	an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h):		J	
Electrical Conductivity (dS/m):	0		
(uom).			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	č		

Component

Component ID:	OND09906145602	Components(%):	50
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: moderately

moderately severe limitations on use for crops.

First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity	1 Ap 0-15 5.2 0.341 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 7 45 48 2.4
(dS/m):			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77

Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Polygon ID:

OND099061116

Component

Component ID:	OND09906111601	Components(%):	70
Soil Name ID:	ONPELHR~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
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	Unspecified period
Charateristics: Layer that Restricts Root	Second layer
Growth: Type of Root Restricting	Undifferentiated
Layer: Parent Material 1, 2, 3:	Fine; Moderately Fine; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Till (Morainal); Not Applicable
.,_,	

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

Soil Layer

1 N	4		4
Layer No:	1	Very Fine Sand(%):	4
Horizon:	Ар	Total Sand(%):	14
Depth(cm):	0-10	Total Silt(%):	42
pH in Calc Chloride:	6.9	Total Clay(%):	44
Saturated Hydraulic Conductivity(cm/h):	0.337	Organic Carbon(%):	2.1
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	7
Horizon:	Bmgj	Total Sand(%):	18
Depth(cm):	10-30	Total Silt(%):	35
pH in Calc Chloride:	5.9	Total Clay(%):	47
Saturated Hydraulic	0.258	Organic Carbon(%):	1
Conductivity(cm/h): 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	0.201	Organic Carbon(%):	0.6
Conductivity(cm/h): 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	0.207	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906111602	Components(%):	30
Soil Name ID:	ONMATHR~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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 Charateristics:	Always
Layer that Restricts Root Growth:	Third layer
Type of Root Restricting Layer:	Compact Till
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

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic	1 Ap 0-28 6 0.373	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	8 25 25 50 2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0	Very Fine Sand(%):	0
Horizon:	Bg	Total Sand(%):	6
Depth(cm):	28-60	Total Silt(%):	49
pH in Calc Chloride:	5	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.196 0	Organic Carbon(%):	1.5
Layer No:	3	Very Fine Sand(%):	0

Horizon:	Bmgj	Total Sand(%):	7
Depth(cm):	60-72	Total Silt(%):	48
pH in Calc Chloride:	7	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	0.25	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	2
Horizon:	Ckg	Total Sand(%):	21
Depth(cm):	72-100	Total Silt(%):	45
pH in Calc Chloride:	8	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.157	Organic Carbon(%):	0.1
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061092

Component

Component ID:	OND09906109201	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics: Layer that Restricts Root Growth:	No root restricting layer

Type of Root Restricting	n/a
Layer:	
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
(
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	-		
Electrical Conductivity (dS/m):	0		
(uo/iii).			

Component

Component ID:	OND09906109202	Components(%):	50
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1

Soil Information Component No: 2 Slope Length(m): -9 Surface Stoniness Nonstony Class: Nonstony Component Rating Field Crops Capability: moderately severe limitations on use for crops. First CLI Limitation Subclass: Second CLI Limitation Adverse soil structure (i.e. Depth of rooting zone is restricted)

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

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

Poorly

silty clay

impervious material.

Soil Layer

Subclass:

Drainage:

Horizon:

Groups:

Soil Name

Soil Texture of A

Hydrological Soil

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69

Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.2 0	Organic Carbon(%):	0.6
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
oH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		
Polygon ID:	OND099061078		
<u>Component</u>			
<u>Component</u> Component ID:	OND09906107801	Components(%):	70
Component ID:	OND09906107801 ONWLL~~~~A	Components(%): Slope Steepness(%):	70 1
		• • • •	-
Component ID: Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component ID: Soil Name ID: Component No: Surface Stoniness	ONWLL~~~~A 1	Slope Steepness(%):	1
Component ID: Soil Name ID: Component No: Surface Stoniness Class:	ONWLL~~~~A 1	Slope Steepness(%): Slope Length(m):	1
Component ID: Soil Name ID: Component No: Surface Stoniness Class: Component Rating Field Crops Capability: First CLI Limitation	ONWLL~~~~A 1 Nonstony	Slope Steepness(%): Slope Length(m):	1
Component ID: Soil Name ID: Component No: Surface Stoniness Class: Component Rating	ONWLL~~~~A 1 Nonstony moderately severe limitations Adverse soil structure (i.e. De	Slope Steepness(%): Slope Length(m):	1
Component ID: Soil Name ID: Component No: Surface Stoniness Class: Component Rating Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation Subclass:	ONWLL~~~~A 1 Nonstony moderately severe limitations	Slope Steepness(%): Slope Length(m):	1
Component ID: Soil Name ID: Component No: Surface Stoniness Class: <u>Component Rating</u> Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation	ONWLL~~~~A 1 Nonstony moderately severe limitations Adverse soil structure (i.e. De	Slope Steepness(%): Slope Length(m):	1

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

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	1 Ap 0-15 5.2 0.341 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 7 45 48 2.4
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.2 0	Organic Carbon(%):	0.6
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.2 0	Organic Carbon(%):	0.6
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.193 1	Organic Carbon(%):	0

Component

Component ID:	OND09906107802	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe 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: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
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:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0

Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061161

Component

Component ID:	OND09906116101	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0

130

Electrical Conductivity 0 (dS/m):

Component

Component ID:	OND09906116102	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9

Electrical Conductivity (dS/m):

0

Layer No:	2	Very Fine Sand(%):	14
,	-	, ,	
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic Conductivity(cm/h):	0.311	Organic Carbon(%):	1
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h):	0.391	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099061147

Component

Polygon ID:

Component ID:	OND09906114701	Components(%):	50
Soil Name ID:	ONNGR~~~~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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Imperfectly
Soil Texture of A Horizon:	

Hydrological SoilSoils 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting	n/a
Layer:	
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable
Property 1,2,3:	

Laver No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
	5.3		42
pH in Calc Chloride:		Total Clay(%):	
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
	<u>.</u>		

Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906114702	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15

Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

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Polygon ID:
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OND099061310

Component

Component ID:	OND09906131001	Components(%):	70
Soil Name ID:	ONNGR~~~~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	Adverse soil structure (i.e. Depth of rooting zone is restricted)

Subclass:

Drainage: Soil Texture of A Horizon: Hydrological Soil Groups: Imperfectly

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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

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Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906131002	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage: Soil Texture of A Horizon: Hydrological Soil Groups:	Imperfectly 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	• •	43 42
•		Total Clay(%):	
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity	0		
(dS/m):			
Laura Mar	2		0
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity	0		
(dS/m):	-		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		,	
Electrical Conductivity	0		
(dS/m):			

Polygon ID:

OND099060918

Component

Component ID:	OND09906091801	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation	moderately severe limitations on use for crops. Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Second CLI Limitation Subclass: Drainage:	Imperfectly
Soil Texture of A	Impeneday
Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64

Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.193 0	Organic Carbon(%):	0
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906091802	Components(%):	30
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	3.5
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Property 1,2,3:

Soil Layer

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic	0.2	Organic Carbon(%):	0.6
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	1		
Polygon ID:	OND099059978		
<u>Component</u>			

Component ID:	OND09905997801	Components(%):	100
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

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Component Rating

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

Water Table Unspecified period Charateristics: Layer that Restricts Root No root restricting layer Growth:	Son Name.	NIAGARA
Water TableUnspecified periodCharateristics:No root restricting layerLayer that Restricts RootNo root restricting layerGrowth:n/aType of Root Restrictingn/aLayer:Parent Material 1, 2, 3:Parent Material 1, 2, 3:Very Fine; Not Applicable; Not ApplicableMode of DepositionGlaciolacustrine; Not Applicable; Not Applicable1,2,3:Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable	Kind of Surface Material:	Mineral
Charateristics:Layer that Restricts RootNo root restricting layerGrowth:n/aType of Root Restrictingn/aLayer:Parent Material 1, 2, 3:Parent Material 1, 2, 3:Very Fine; Not Applicable; Not ApplicableMode of DepositionGlaciolacustrine; Not Applicable; Not Applicable1,2,3:Parent Material ChemicalParent Material ChemicalModerately / Very Strongly Calcareous; Not Applicable; Not Applicable	Soil Drainage Class:	Imperfectly drained
Growth: n/a Type of Root Restricting n/a Layer: Very Fine; Not Applicable; Not Applicable Parent Material 1, 2, 3: Very Fine; Not Applicable; Not Applicable Mode of Deposition Glaciolacustrine; Not Applicable; Not Applicable 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable		Unspecified period
Layer:Parent Material 1, 2, 3:Very Fine; Not Applicable; Not ApplicableMode of DepositionGlaciolacustrine; Not Applicable; Not Applicable1,2,3:Parent Material ChemicalModerately / Very Strongly Calcareous; Not Applicable; Not Applicable		No root restricting layer
Mode of DepositionGlaciolacustrine; Not Applicable; Not Applicable1,2,3:Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable	Type of Root Restricting Layer:	n/a
1,2,3: Parent Material Chemical Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable	Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
	•	Glaciolacustrine; Not Applicable; Not Applicable
	_	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		

Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061339

Component

Component ID:	OND09906133901	Components(%):	50
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation Subclass: Second CLI Limitation Subclass:	moderately severe limitations on use for crops. Adverse soil structure (i.e. Depth of rooting zone is restricted)
Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root	No root restricting layer

Growth:	
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

<u>Component</u>

Componen	t ID: OND09906133902	Components(%):	50	
144	erisinfo.com Environmental Risk Information Se	ervices		Order No: 21081100468p

Soil Name ID: Component No: Surface Stoniness Class:	ONNGR~~~~A 2 Nonstony	Slope Steepness(%): Slope Length(m):	3.5 -9
Component Rating			
Field Crops Capability: First CLI Limitation	moderately severe limitations of Adverse soil structure (i.e. Der	1	

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

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63

Soil Information			
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.189 0	Organic Carbon(%):	2.4
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.193 0	Organic Carbon(%):	0
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity	0.193 0	Organic Carbon(%):	0
(dS/m):	0		
Polygon ID:	OND099061336		
<u>Component</u>			
Component ID:	OND09906133601	Components(%):	100
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability: First CLI Limitation	moderately severe limitations on use	e for crops.	
Subclass: Second CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of	rooting zone is restricted)	
Drainage:	Poorly		
Soil Texture of A	silty clay		
Horizon: Hydrological Soil Groups:	Soils have a high runoff potential an clay soils with high swelling potentia impervious material.		en thoroughly wetted. Soils include ater table and shallow soils over nearly
Soil Name			

Soil Name: WELLAND

Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; 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(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic	0.2	Organic Carbon(%):	0.6
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic	0.2	Organic Carbon(%):	0.6
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	1		

Polygon ID:

OND099060455

Component

Component ID:	OND09906045501	Components(%):	70
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: First CLI Limitation	moderately severe limitations on use for crops.
Subclass: Second CLI Limitation	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Drainage:	Poorly
Soil Texture of A Horizon:	silty clay
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:	WELLAND
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
Depth(cm):	0-15	Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity	0		

(dS/m):

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity	2 Btg 15-34 6.5 0.2 0	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	0 3 28 69 0.6
(dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.2 0	Organic Carbon(%):	0.6
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckg	Total Sand(%):	1
Depth(cm):	43-100	Total Silt(%):	26
pH in Calc Chloride:	7.7	Total Clay(%):	73
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	1		

Component

Component ID:	OND09906045502	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Field Crops Capability:	moderately severe 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: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
		· · ·	
pH in Calc Chloride:	7.7	Total Clay(%):	63

Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099061693		
Component			
Component ID:	OND09906169301	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	7
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	Adverse soil structure (i.e. Dep	oth of rooting zone is restricted)	
Subclass: Second CLI Limitation Subclass:	Presence of adverse Topography Imperfectly		
Drainage:			
Soil Texture of A			
Horizon: Hydrological Soil	Soils with clow infiltration rates	when there usely watted and these	e soils typically are silty-loam soils wit
Groups:		moderately fine to fine texture.	e sons typically are sitty-loant sons wit
Soil Name			
Soil Name:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
Water Table Charateristics:	Unspecified period		
Layer that Restricts Root Growth:	No root restricting layer		
Type of Root Restricting Layer:	n/a		
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not	Applicable	
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicab	le; Not Applicable	
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Ca	lcareous; Not Applicable; Not Appli	cable
Soil Layer			
Layer No:	1	Very Fine Sand(%):	3
Layei NU.			

Total Sand(%):

Horizon:

Ap

15

Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906169302	Components(%):	30
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable

Soil Texture of A Horizon: Hydrological Soil Groups:

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h):	1 Ap 0-19 6.4 0.494	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	10 15 60 25 3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.311 0	Organic Carbon(%):	1
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h):	0.391	Organic Carbon(%):	0.7
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8

Layer No: 153

Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099061443

Component

Polygon ID:

Component ID:	OND09906144301	Components(%):	50
Soil Name ID:	ONCSHHR~~~A	Slope Steepness(%):	12
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation	Presence of adverse Topography
Subclass: Drainage:	Moderately Well
Soil Texture of A Horizon: Hydrological Soil	clay Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with
Groups:	an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CASHEL
Kind of Surface Material:	Mineral
Soil Drainage Class:	Moderately well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	Second layer
Type of Root Restricting Layer:	Undifferentiated
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; Moderately / Very Strongly Calcareous; Not Applicable

Layer No:	1	Very Fine Sand(%):	5
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-22	Total Silt(%):	35
pH in Calc Chloride:	5.8	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	0.739	Organic Carbon(%):	7.1
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bm	Total Sand(%):	16
Depth(cm):	22-55	Total Silt(%):	35
pH in Calc Chloride:	5.4	Total Clay(%):	49
Saturated Hydraulic Conductivity(cm/h):	0.251	Organic Carbon(%):	1.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Bm	Total Sand(%):	20
Depth(cm):	55-100	Total Silt(%):	40
pH in Calc Chloride:	5.1	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.271	Organic Carbon(%):	0.4
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND09906144302	Components(%):	50
Soil Name ID:	ONALU~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Drainage:	Not Applicable
Soil Texture of A Horizon: Hydrological Soil Groups:	

Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic	0.494	Organic Carbon(%):	3.9
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20
Depth(cm):	19-27	Total Silt(%):	57
pH in Calc Chloride:	6.7	Total Clay(%):	23
Saturated Hydraulic	0.311	Organic Carbon(%):	1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic	0.391	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0

Electrical Conductivity (dS/m):	0		
Polygon ID:	OND099061210		
Component			
Component ID:	OND09906121001	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		
Component Rating			
Field Crops Capability:	moderately severe limitation	s on use for crops.	
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Adverse soil structure (i.e. D	epth of rooting zone is restricted)	
Drainage:	Imperfectly		
Soil Texture of A Horizon: Hydrological Soil Groups:		es when thoroughly wetted and these th moderately fine to fine texture.	e soils typically are silty-loam soils wit
Soil Name			
Soil Name:	NIAGARA		
Kind of Surface Material:	Mineral		
Soil Drainage Class:	Imperfectly drained		
Water Table Charateristics:	Unspecified period		
Layer that Restricts Root Growth:	No root restricting layer		
Type of Root Restricting Layer:	n/a		
Parent Material 1, 2, 3:	Very Fine; Not Applicable; N		
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applica		
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly C	Calcareous; Not Applicable; Not Appli	cable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43

nll in Colo Chlorida.	5.2		40
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7
Electrical Conductivity	0		
(dS/m):			
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h):	0		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):			
Electrical Conductivity	0		
(dS/m):			
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h):		•	
Electrical Conductivity	0		
(dS/m):			

Component

Component ID:	OND09906121002	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

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

Hydrological SoilSoils 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting	n/a
Layer:	
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable
Property 1,2,3:	

Horizon:ApTotal Sand(%):15Depth(cm):0-15Total Silt(%):43pH in Calc Chloride:5.3Total Clay(%):42Saturated Hydraulic0.256Organic Carbon(%):0.7Conductivity(cm/h):000Electrical Conductivity000(dS/m):2Very Fine Sand(%):4Layer No:2Very Fine Sand(%):4Depth(cm):15-31Total Sand(%):4Depth(cm):15-31Total Sand(%):63Saturated Hydraulic0.189Organic Carbon(%):2.4Conductivity(cm/h):001Electrical Conductivity01IdS/m):31-50Total Sand(%):1Depth(cm):31-50Total Sand(%):1Depth(cm):31-50Total Sand(%):64Saturated Hydraulic0.193Organic Carbon(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h):001Electrical Conductivity001Conductivity(cm/h):001Layer No:4Very Fine Sand(%):0Layer No:4Very Fine Sand(%):0Layer No:4Very Fine Sand(%):0Horizon:001Conductivity(cm/h):001Electrical Conductivity001Horizon:4Very Fine	Layer No:	1	Very Fine Sand(%):	3
pH in Calc Chloride:5.3Total Clay(%):42Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity0.256Organic Carbon(%):0.7Layer No:2Very Fine Sand(%):0Horizon:BtgjTotal Sand(%):4Depth(cm):15-31Total Sint(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity00Horizon:3Very Fine Sand(%):1Depth(cm):1.189Organic Carbon(%):2.4Conductivity(cm/h): Electrical Conductivity01Depth(cm):3.1-50Total Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic (dS/m):0.193Organic Carbon(%):0Conductivity(cm/h): Electrical Conductivity (dS/m):00	Horizon:	Ар	Total Sand(%):	15
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.256Organic Carbon(%):0.7Layer No:2Very Fine Sand(%):0Horizon:BtgjTotal Sand(%):4Depth(cm):15-31Total Silt(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):00Layer No:3Very Fine Sand(%):1Depth(cm):0001Depth(cm):139Organic Carbon(%):2.4Conductivity(cm/h): Electrical Conductivity (dS/m):010Layer No:3Very Fine Sand(%):1Depth(cm):31-50Total Sand(%):1Depth(cm):00.193Organic Carbon(%):64Saturated Hydraulic conductivity(cm/h): Electrical Conductivity (dS/m):00Layer No:4Very Fine Sand(%):0	Depth(cm):	0-15	Total Silt(%):	43
Conductivity(cm/h): Electrical Conductivity (dS/m):2Very Fine Sand(%):0Layer No:2Very Fine Sand(%):0Horizon:BtgjTotal Sand(%):4Depth(cm):15-31Total Sand(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic0.189Organic Carbon(%):2.4Conductivity(cm/h): Electrical Conductivity (dS/m):0Very Fine Sand(%):1Layer No:3Very Fine Sand(%):1Depth(cm):31-50Total Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h): Electrical Conductivity (dS/m):0Very Fine Sand(%):0	pH in Calc Chloride:	5.3	Total Clay(%):	42
Electrical Conductivity (dS/m):0Layer No:2Very Fine Sand(%):0Horizon:BtgjTotal Sand(%):4Depth(cm):15-31Total Silt(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0Organic Carbon(%):2.4Layer No:3Very Fine Sand(%):0Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic Conductivity(m/h): Electrical Conductivity (dS/m):4Very Fine Sand(%):0		0.256	Organic Carbon(%):	0.7
Horizon:BtgjTotal Sand(%):4Depth(cm):15-31Total Silt(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.189Organic Carbon(%):2.4Layer No:3Very Fine Sand(%):0Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Silt(%):64Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):00Layer No:4Very Fine Sand(%):0	Electrical Conductivity	0		
Depth(cm):15-31Total Silt(%):33pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.189Organic Carbon(%):2.4Layer No:3000Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity0.193Organic Carbon(%):0Layer No:4Very Fine Sand(%):0	Layer No:	2	Very Fine Sand(%):	0
pH in Calc Chloride:6.5Total Clay(%):63Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.189Organic Carbon(%):2.4Layer No:3Very Fine Sand(%):0Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity0.193Organic Carbon(%):0Layer No:4Very Fine Sand(%):0	Horizon:	Btgj	Total Sand(%):	4
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.189Organic Carbon(%): 2.42.4Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic (dS/m):3Very Fine Sand(%): Total Sand(%): 10Horizon: Depth(cm): pH in Calc Chloride: Conductivity(cm/h): Electrical Conductivity (dS/m):30Layer No:4Very Fine Sand(%): Organic Carbon(%):0	Depth(cm):	15-31	Total Silt(%):	33
Conductivity(cm/h): Electrical Conductivity (dS/m):0Layer No:3Very Fine Sand(%):0Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h): Electrical Conductivity (dS/m):0Very Fine Sand(%):0	pH in Calc Chloride:	6.5	Total Clay(%):	63
Electrical Conductivity (dS/m):0Layer No:3Very Fine Sand(%):0Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h): Electrical Conductivity (dS/m):4Very Fine Sand(%):0		0.189	Organic Carbon(%):	2.4
Horizon:CkgjTotal Sand(%):1Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h):Electrical Conductivity00Layer No:4Very Fine Sand(%):0	Electrical Conductivity	0		
Depth(cm):31-50Total Silt(%):35pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h):000Electrical Conductivity0Very Fine Sand(%):0	Layer No:	3	Very Fine Sand(%):	0
pH in Calc Chloride:7.7Total Clay(%):64Saturated Hydraulic0.193Organic Carbon(%):0Conductivity(cm/h):Electrical Conductivity0Very Fine Sand(%):0Layer No:4Very Fine Sand(%):0	Horizon:	Ckgj	Total Sand(%):	1
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):0.193Organic Carbon(%):0Layer No:4Very Fine Sand(%):0	Depth(cm):	31-50	Total Silt(%):	35
Conductivity(cm/h): Electrical Conductivity 0 (dS/m): 4 Very Fine Sand(%): 0	pH in Calc Chloride:	7.7	Total Clay(%):	64
Electrical Conductivity 0 (dS/m): 4 Layer No: 4 Very Fine Sand(%): 0	•	0.193	Organic Carbon(%):	0
	Electrical Conductivity	0		
• • • • • • • • • • • • • • • • • • • •	Layer No:	4	Very Fine Sand(%):	0
	-	Ckgj	• • • •	1

Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity	0.193 0	Organic Carbon(%):	0

(dS/m):

OND099061445

Component

Polygon ID:

Component ID:	OND09906144501	Components(%):	100
Soil Name ID:	ONOTI~~~~A	Slope Steepness(%):	7
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Moderately Well
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:	ONTARIO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No: Horizon: Depth(cm): pH in Calc Chloride: Saturated Hydraulic	1 Ap 0-15 7 3.621	Very Fine Sand(%): Total Sand(%): Total Silt(%): Total Clay(%): Organic Carbon(%):	6 55 25 20 2.1
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bm	Total Sand(%):	31
Depth(cm):	15-18	Total Silt(%):	24
pH in Calc Chloride:	8	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	1.873	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	6
Horizon:	Bt	Total Sand(%):	45
Depth(cm):	18-45	Total Silt(%):	5
pH in Calc Chloride:	8	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	1.873	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	4
Horizon:	Ck	Total Sand(%):	8
Depth(cm):	45-100	Total Silt(%):	30
pH in Calc Chloride:	8	Total Clay(%):	62
Saturated Hydraulic	3.083	Organic Carbon(%):	0.3
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061222

Component

Component ID:	OND09906122201	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 Charateristics:	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:

OND099061231

Component

Component ID:	OND09906123101	Components(%):	70
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	3.5
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass: Drainage:	Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Glaciolacustrine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic	0.256	Organic Carbon(%):	0.7
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic	0.189	Organic Carbon(%):	2.4
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic	0.193	Organic Carbon(%):	0
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0

Electrical Conductivity 0 (dS/m):

Component

Component ID:	OND09906123102	Components(%):	30
Soil Name ID:	ONNGR~~~~A	Slope Steepness(%):	1
Component No:	2	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:	Adverse soil structure (i.e. Depth of rooting zone is restricted) Imperfectly
Soil Texture of A Horizon: 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:	NIAGARA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	No root rootricting lover
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting	n/a
Layer:	
Parent Material 1, 2, 3:	Very Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3: Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	3
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-15	Total Silt(%):	43
pH in Calc Chloride:	5.3	Total Clay(%):	42
Saturated Hydraulic Conductivity(cm/h):	0.256	Organic Carbon(%):	0.7

Electrical Conductivity (dS/m):

0

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btgj	Total Sand(%):	4
Depth(cm):	15-31	Total Silt(%):	33
pH in Calc Chloride:	6.5	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.189	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	31-50	Total Silt(%):	35
pH in Calc Chloride:	7.7	Total Clay(%):	64
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Ckgj	Total Sand(%):	1
Depth(cm):	50-100	Total Silt(%):	36
pH in Calc Chloride:	7.7	Total Clay(%):	63
Saturated Hydraulic Conductivity(cm/h):	0.193	Organic Carbon(%):	0
Electrical Conductivity	0		

(dS/m):

OND099061423

Component

Polygon ID:

Component ID:	OND09906142301	Components(%):	100
Soil Name ID:	ONWLL~~~~A	Slope Steepness(%):	1
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

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

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

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ар	Total Sand(%):	7
	ор 0-15	• •	•
Depth(cm):		Total Silt(%):	45
pH in Calc Chloride:	5.2	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.341	Organic Carbon(%):	2.4
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	3
Depth(cm):	15-34	Total Silt(%):	28
pH in Calc Chloride:	6.5	Total Clay(%):	69
Saturated Hydraulic	0.2	Organic Carbon(%):	0.6
Conductivity(cm/h): Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Btg	Total Sand(%):	1
Depth(cm):	34-43	Total Silt(%):	22
pH in Calc Chloride:	7.3	Total Clay(%):	77
Saturated Hydraulic Conductivity(cm/h):	0.2	Organic Carbon(%):	0.6
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0

Ckg	Total Sand(%):	1
43-100	Total Silt(%):	26
7.7	Total Clay(%):	73
0.193	Organic Carbon(%):	0
	43-100 7.7	43-100 Total Silt(%): 7.7 Total Clay(%):

(dS/m):

OND099061658

Component

Polygon ID:

Component ID:	OND09906165801	Components(%):	100
Soil Name ID:	ONOTI~~~~A	Slope Steepness(%):	7
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:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Moderately Well
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:	ONTARIO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well 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:	Fine; Not Applicable; Not Applicable
Mode of Deposition	Glaciolacustrine; Not Applicable; Not Applicable
1,2,3:	
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Layer No:ApTotal Sand(%):55Depth(cm):0-15Total Sand(%):25pH in Calc Chloride:7Total Clay(%):20Saturated Hydraulic3.621Organic Carbon(%):2.1Conductivity(cm/h):Electrical Conductivity00(dS/m):0015-18Total Sand(%):31Depth(cm):15-18Total Sand(%):31Depth(cm):15-18Total Sand(%):24pH in Calc Chloride:8Total Clay(%):45Saturated Hydraulic1.873Organic Carbon(%):0.5Conductivity(cm/h):Electrical Conductivity00(dS/m):18-45Total Sand(%):6Horizon:BtTotal Sand(%):45Depth(cm):18-45Total Silt(%):50Saturated Hydraulic1.873Organic Carbon(%):50Conductivity(cm/h):Electrical Conductivity00(dS/m):18-45Total Silt(%):50Saturated Hydraulic1.873Organic Carbon(%):50Conductivity(cm/h):Electrical Conductivity00(dS/m):18-45Total Sand(%):4Horizon:CkTotal Sand(%):4Horizon:CkTotal Sand(%):8Depth(cm):45-100Total Silt(%):30pH in Calc Chloride:8Total Clay(%):62Conductivity(cm/h):Electrical Conductivity0CkLayer N	Layer No:	1	Very Fine Sand(%):	6
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Electrical Conductivity 0		3.083	Organic Carbon(%):	0.3
		0		
	-	•		

Polygon ID:

OND099061600

Component

Component ID:	OND09906160001	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		

Field Crops Capability:

First CLI Limitation Subclass: Second CLI Limitation Subclass: Drainage: Soil Texture of A Horizon: Hydrological Soil

Groups:

Soil Name

Kind of Surface Material:UnclassifiedSoil Drainage Class:Not applicableWater TableUnspecified periodCharateristics:No root restricting layerLayer that Restricts Root Growth:No root restricting layerType of Root Restricting Layer:n/aParent Material 1, 2, 3:Not Applicable; Not Applicable; Not Applicable Not Applicable; Not Applicable; Not Applicable Not Applicable; Not Applicable; Not Applicable Not Applicable; Not ApplicableMode of Deposition 1,2,3:Not Applicable; Not Applicable; Not Applicable Not Applicable; Not Applicable; Not Applicable	Soil Name:	UNCLASSIFIED
Water TableUnspecified periodCharateristics:Unspecified periodLayer that Restricts RootNo root restricting layerGrowth:n/aType of Root Restrictingn/aLayer:Not Applicable; Not Applicable; Not ApplicableMode of DepositionNot Applicable; Not Applicable; Not Applicable1,2,3:Not Applicable; Not Applicable; Not ApplicableParent Material ChemicalNot Applicable; Not Applicable; Not Applicable	Kind of Surface Material:	Unclassified
Charateristics:Layer that Restricts RootNo root restricting layerGrowth:n/aType of Root Restrictingn/aLayer:Not Applicable; Not Applicable; Not ApplicableMode of DepositionNot Applicable; Not Applicable; Not Applicable1,2,3:Not Applicable; Not Applicable; Not ApplicableParent Material ChemicalNot Applicable; Not Applicable; Not Applicable	Soil Drainage Class:	Not applicable
Growth:Type of Root Restricting Layer:n/aParent Material 1, 2, 3:Not Applicable; Not Applicable; Not ApplicableMode of Deposition 1,2,3:Not Applicable; Not Applicable; Not ApplicableParent Material ChemicalNot Applicable; Not Applicable; Not Applicable		Unspecified period
Layer:Not Applicable; Not Applicable; Not Applicable; Not ApplicableParent Material 1, 2, 3:Not Applicable; Not Applicable; Not ApplicableMode of DepositionNot Applicable; Not Applicable; Not Applicable1,2,3:Parent Material ChemicalNot Applicable; Not Applicable; Not Applicable; Not Applicable	2	No root restricting layer
Mode of DepositionNot Applicable; Not Applicable; Not Applicable1,2,3:Parent Material ChemicalNot Applicable; Not Applicable; Not Applicable; Not Applicable		n/a
1,2,3: Parent Material Chemical Not Applicable; Not Applicable; Not Applicable	Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
		Not Applicable; Not Applicable; Not Applicable
		Not Applicable; Not Applicable; Not Applicable

Polygon ID:

OND099061460

Component

Class:

Component ID:	OND09906146001	Components(%):	100
Soil Name ID:	ONCSHHR~~~A	Slope Steepness(%):	12
Component No:	1	Slope Length(m):	-9
Surface Stoniness	Nonstony		

Field Crops Capability:	Severe limitations on use for crops.
First CLI Limitation Subclass: Second CLI Limitation Subclass:	Presence of adverse Topography
Drainage:	Moderately Well
Soil Texture of A Horizon:	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:	CASHEL
Kind of Surface Material:	Mineral
Soil Drainage Class:	Moderately well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	Second layer
Type of Root Restricting Layer:	Undifferentiated
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; Moderately / Very Strongly Calcareous; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	5
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-22	Total Silt(%):	35
pH in Calc Chloride:	5.8	Total Clay(%):	50
Saturated Hydraulic Conductivity(cm/h):	0.739	Organic Carbon(%):	7.1
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	6
Horizon:	Bm	Total Sand(%):	16
Depth(cm):	22-55	Total Silt(%):	35
pH in Calc Chloride:	5.4	Total Clay(%):	49
Saturated Hydraulic Conductivity(cm/h):	0.251	Organic Carbon(%):	1.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Bm	Total Sand(%):	20
Depth(cm):	55-100	Total Silt(%):	40
pH in Calc Chloride:	5.1	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.271	Organic Carbon(%):	0.4
Electrical Conductivity (dS/m):	0		

Polygon ID:

OND099061468

<u>Component</u>

Component ID: Soil Name ID: Component No: Surface Stoniness Class: OND09906146801 ONALU~~~~A 1 Nonstony

Components(%):	100
Slope Steepness(%):	1
Slope Length(m):	-9

Component Rating

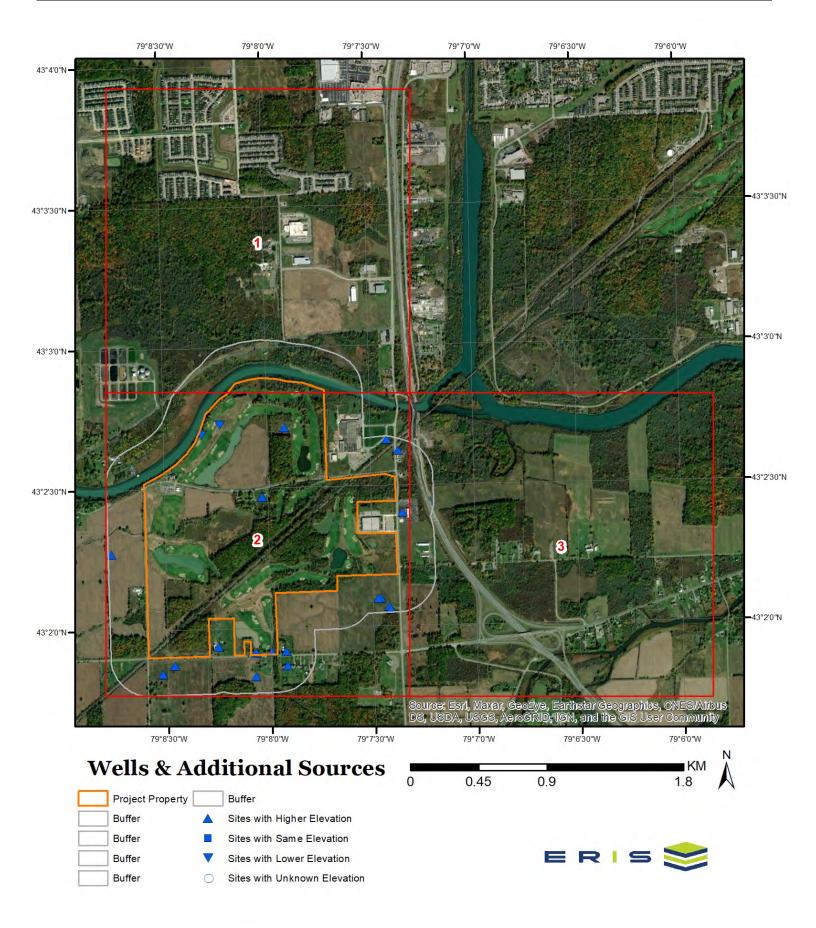
Field Crops Capability:Very severe limitations preclude annual cultivation; improvements feasible.First CLI LimitationSubject to occasional flooding (Inundation) from adjacent streams or waterbodiesSubclass:Second CLI LimitationSubclass:Not ApplicableSoil Texture of ANot ApplicableHydrological SoilGroups:

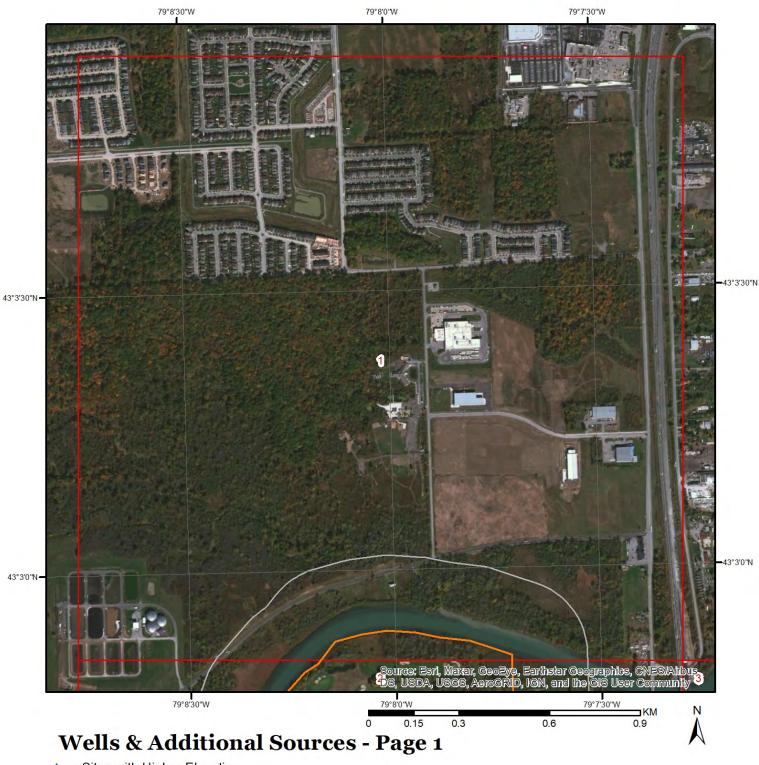
Soil Name

Soil Name:	ALLUVIUM
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Weakly Calcareous; Not Applicable; Not Applicable

Layer No:	1	Very Fine Sand(%):	10
Horizon:	Ар	Total Sand(%):	15
Depth(cm):	0-19	Total Silt(%):	60
pH in Calc Chloride:	6.4	Total Clay(%):	25
Saturated Hydraulic Conductivity(cm/h):	0.494	Organic Carbon(%):	3.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	14
Horizon:	Bmgj	Total Sand(%):	20

Depth(cm): pH in Calc Chloride: Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	19-27 6.7 0.311 0	Total Silt(%): Total Clay(%): Organic Carbon(%):	57 23 1
Layer No:	3	Very Fine Sand(%):	20
Horizon:	Bmgj	Total Sand(%):	27
Depth(cm):	27-42	Total Silt(%):	52
pH in Calc Chloride:	6.8	Total Clay(%):	21
Saturated Hydraulic Conductivity(cm/h): Electrical Conductivity (dS/m):	0.391 0	Organic Carbon(%):	0.7
Layer No:	4	Very Fine Sand(%):	8
Horizon:	Ckg	Total Sand(%):	18
Depth(cm):	42-100	Total Silt(%):	50
pH in Calc Chloride:	7.7	Total Clay(%):	32
Saturated Hydraulic Conductivity(cm/h):	0.218	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		





- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation

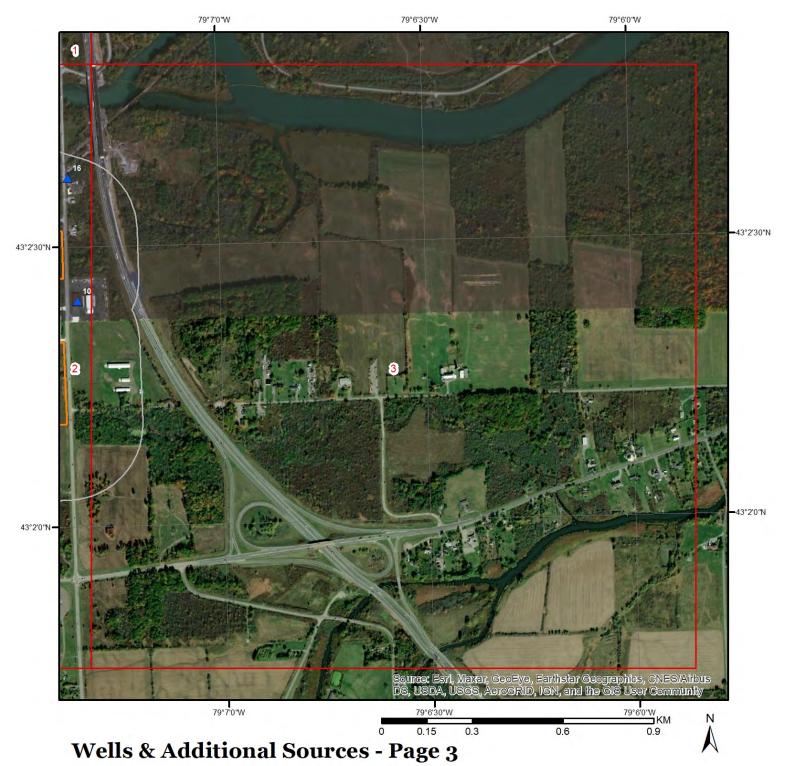




Wells & Additional Sources - Page 2

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation





- 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			
Мар Кеу	ID	Distance (m)	Direction
	No records found		
Provincial Sources			
Ontario Oil and Gas Wo	ells		
Мар Кеу	Licence No	Distance (m)	Direction
12 13 18	F014193 F014190 F014144	111.48 142.78 227.73	SSW S WSW
Provincial Groundwate	er Monitoring Network		
Мар Кеу	ID	Distance (m)	Direction
	No records found		
Water Well Information	System		
Мар Кеу	Well ID	Distance (m)	Direction
1	6600619	0.	
2	7352103	0.	-
3	7289552	0.	-
4	6600615	0.	-
5	6600617	0.	-
6	7352071	0.	-
7	6600625	56.76	SSW
8	6600616	62.27	SSE
9	6600618	63.34	SSW
10	6602673	90.11	E
11	6604508	102.55	SSE
14	6600612	153.96	ESE
15	6600613	155.4	ESE
16	7231244	174.54	ENE
17	7200894	211.07	ESE
19	7265625	229.43	ESE
20	7305848	229.96	ENE

Private Sources

Oil and Gas Wells

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Мар Кеу	ID	Distance (m)	Direction
	No records found		
	No records round		

Map Key Direction Distance (km) Distance (m) Elevation (m) DB 12 SSW 0.11 111.48 178.50 OOGW Licence No: F014193 Well Compl: 26049 Well ID: 26116 County: Welland NULL Well Compl ID: 26049 Block: 4 W Class ID: 2362 Lot: UWI Code: F014193 Conc: I Permit Date: NULL Surface Lat NAD83: 43.03070861 152.70 Surface Long NAD83: Depth(m): -79.14211222 Well Pool: Welland Pool Bottom Lat NAD83: 43.03070861 Completion Date: NULL Bottom Long NAD83: -79.14211222 1948-06-09 00:00:00 91.44 S Depth Reached: Lot Sides (m): 91.44 E NULL E/W (m): Capped Date: Class ID: Latitude Nad27: DB Source: Longitude Nad27: Status as of: June 2020 bottom lat27: Start Date: 1948-05-29 00:00:00 bottom long27: SPUD Date: 1948-05-29 00:00:00 Lateral: No Class: DEV 50 Accuracy: Grnd Elev: 178.60 Method: Well Records (1921 to 1954) KB Elev: 178.90 Parent: NULL TVD: 152.70 Prod Top: 121.31 PBTD: NULL Prod Bot: 138.07 TD Form: Queenston PROPD Depth: 520.00 Workover D: NULL Well Records (1921 to 1954) Location Method: W. C. Patterson Gas Co. Ltd. Within 50 metres Operator: Location Accuracy: Township: Crowland Dt Obtained: NULL Well Name: E & A. Cruickshank #1 Target: SIL UNSUBDIVIDED Target Desc: Well Status Type: Natural Gas Well A WELL PRESENTLY OR FORMERLY USED TO PRODUCE NATURAL GAS FROM A RESERVOIR Status Type Desc: Well Status Mode: Unknown Status Mode Desc: Classification: DEVELOPMENT **Classification Desc:** "DEVELOPMENT WELL" MEANS A WELL THAT IS DRILLED FOR THE PURPOSE OF PRODUCING FROM OR EXTENDING A POOL OF OIL OR GAS INTO WHICH ANOTHER WELL HAS ALREADY **BEEN DRILLED** Cement Rec: NULL Comments: Accuracy is approximate and not verified. Ground Elev from DEM in PetroGIS (A. Lenny, 7 August 2013), KB = Ground + 0.3m.

Ontario Oil and Gas Wells

License No:

Source:

FORM 7

	•		
Top (m):	111.25	Static Level (m):	n/a
Elevation (m):	67.65	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	67.65 / 111.25
Type of Water:	n/a		
License No:	F014193	Source:	FORM 7
Top (m):	151.79	Static Level (m):	n/a
Elevation (m):	27.11	Geology/Water:	Geology
Geology Formation:	Queenston	Elevation / Top (m):	27.11 / 151.79
Type of Water:	n/a		
Lissan No.	F04 4402	Courses	
License No:	F014193	Source:	FORM 7
Top (m):	144.78	Static Level (m):	n/a
Elevation (m):	34.12	Geology/Water:	Geology
Geology Formation:	Whirlpool	Elevation / Top (m):	34.12 / 144.78
Type of Water:	n/a		
License No:	F014193	Source:	FORM 7
Top (m):	138.07	Static Level (m):	n/a
Elevation (m):	40.83	Geology/Water:	Geology
Geology Formation:	Cabot Head	Elevation / Top (m):	40.83 / 138.07
Type of Water:	n/a		
License No:	F014193	Source:	MNR
Top (m):	36.58	Static Level (m):	n/a
Elevation (m):	142.32	Geology/Water:	Geology
Geology Formation:	Guelph	Elevation / Top (m):	142.32 / 36.58
Type of Water:	n/a		112.02 / 00.00
21			
License No:	F014193	Source:	FORM 7
Top (m):	36.58	Static Level (m):	n/a
Elevation (m):	142.32	Geology/Water:	Geology
Geology Formation:	Guelph	Elevation / Top (m):	142.32 / 36.58
Type of Water:	n/a		
License No:	F014193	Source:	MNR
Top (m):	111.25	Static Level (m):	n/a
Elevation (m):	67.65	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	67.65 / 111.25
Type of Water:	n/a		
		_	
License No:	F014193	Source:	FORM 7
Top (m):	12.19	Static Level (m):	n/a
Elevation (m):	166.71	Geology/Water:	Geology
Geology Formation:	Marcellus	Elevation / Top (m):	166.71 / 12.19
Type of Water:	n/a		

License No:	F014193	Source:	FORM 7
Top (m):	0.03	Static Level (m):	n/a
Elevation (m):	178.87	Geology/Water:	Geology
Geology Formation:	Drift	Elevation / Top (m):	178.87 / 0.03
Type of Water:	n/a		
License No:	F014193	Source:	FORM 7
Top (m):	121.31	Static Level (m):	n/a
Elevation (m):	57.59	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	57.59 / 121.31
Type of Water:	n/a		
License No:	F014193	Source:	MNR
Top (m):	20.73	Static Level (m):	n/a
Elevation (m):	158.17	Geology/Water:	Geology
Geology Formation:	B Anhydrite	Elevation / Top (m):	158.17 / 20.73
Type of Water:	n/a		
License No:	F014193	Source:	n/a
Top (m):	NULL	Static Level (m):	5.49
Elevation (m):	n/a	Geology/Water:	Water
Geology Formation:	Guelph	Elevation / Top (m):	n/a / NULL
Type of Water:	Sulphur		
License No:	F014193	Source:	MNR
Top (m):	121.31	Static Level (m):	n/a
Elevation (m):	57.59	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	57.59 / 121.31
Type of Water:	n/a		57.557 121.51
Type of Water.	1//a		
License No:	F014193	Source:	MNR
Top (m):	144.78	Static Level (m):	n/a
Elevation (m):	34.12	Geology/Water:	Geology
Geology Formation:	Whirlpool	Elevation / Top (m):	34.12 / 144.78
Type of Water:	n/a		
License No:	F014193	Source:	MNR
Top (m):	12.19	Static Level (m):	n/a
Elevation (m):	166.71	Geology/Water:	Geology
Geology Formation:	Marcellus	Elevation / Top (m):	166.71 / 12.19
Type of Water:	n/a		
License No:	F014193	Source:	MNR
Top (m):	138.07	Static Level (m):	n/a
Elevation (m):	40.83	Geology/Water:	Geology
Geology Formation:	Cabot Head	Elevation / Top (m):	40.83 / 138.07

13	S	0.14	142.78	176.94	OOGW
Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
Type of Water:	n/a				
Geology Formation	: Roche	ester	Elevation / Top (m):	85.94 / 92.96	
Elevation (m):	85.94		Geology/Water:	Geology	
Top (m):	92.96		Static Level (m):	n/a	
License No:	F0141	193	Source:	FORM 7	
Type of Water:	Fresh				
Geology Formation	: Marce	ellus	Elevation / Top (m):	n/a / NULL	
Elevation (m):	n/a		Geology/Water:	Water	
Top (m):	NULL		Static Level (m):	6.71	
License No:	F0141	193	Source:	n/a	
Type of Water:	Fresh				
Geology Formation	: B Anh	lydrite	Elevation / Top (m):	n/a / NULL	
Elevation (m):	n/a		Geology/Water:	Water	
Top (m):	NULL		Static Level (m):	6.71	
License No:	F0141	193	Source:	n/a	
Type of Water:	n/a				
Geology Formation	: Roche	ester	Elevation / Top (m):	85.94 / 92.96	
Elevation (m):	85.94		Geology/Water:	Geology	
Top (m):	92.96		Static Level (m):	n/a	
License No:	F0141	193	Source:	MNR	
Type of Water:	n/a				
Geology Formation	: Drift		Elevation / Top (m):	178.87 / 0.03	
Elevation (m):	178.8	7	Geology/Water:	Geology	
Top (m):	0.03		Static Level (m):	n/a	
License No:	F0141	193	Source:	MNR	
Type of Water:	n/a				
Geology Formation	: B Anh	lydrite	Elevation / Top (m):	158.17 / 20.73	
Elevation (m):	158.1	7	Geology/Water:	Geology	
Top (m):	20.73		Static Level (m):	n/a	
License No:	F0141	193	Source:	FORM 7	
Type of Water:	n/a				
Geology Formation	: Quee	nston	Elevation / Top (m):	27.11 / 151.79	
Elevation (m):	27.11		Geology/Water:	Geology	
Top (m):	151.7	9	Static Level (m):	n/a	

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Geology Formation: Type of Water: License No: Top (m):	n/a F014190 152.70	Source: Static Level (m):	MNR n/a
Type of Water:		Source:	MNR
	n/a		
	n/o		
	Rochester	Elevation / Top (m):	57.30 / 96.62
Elevation (m):	57.30 Dechaster	Geology/Water:	Geology
Top (m):	96.62	Static Level (m):	n/a
License No:	F014190	Source:	MNR
Linear Nev	504.4400	0	
Comments:	Accuracy is approximate and not	verified.	
Cement Rec:	NULL		
Classification Desc:		-	OR THE PURPOSE OF PRODUCING I ANOTHER WELL HAS ALREADY
Classification:			
Status Mode Desc:		PLUGGED AND ABANDONED	1
Well Status Mode:	Abandoned Well		
Status Type Desc:	BEEN ENCOUNTERED	ATORY OR DEVELOPMENT IN	WHICH NO HYDROCARBONS HAVE
Well Status Type:	Dry Hole		
Target Desc:			
Target:	NULL		
Well Name:	W. C. Patterson Gas Co. A & E W	oougate	
Township:	Crowland	Dt Obtained:	NULL
Operator:	W. C. Patterson Gas Co. Ltd.	Location Accuracy:	Within 50 metres
Workover D:	NULL	Location Method:	Well Records (1921 to 1954)
TD Form:	Queenston	PROPD Depth:	213.36
PBTD:	NULL	Prod Bot:	NULL
TVD:	153.92	Prod Top:	NULL
KB Elev:	153.92	Parent:	NULL
Grnd Elev:	153.92	Method:	Well Records (1921 to 1954)
Class:	DEV	Accuracy:	50
SPUD Date:	1948-05-01 00:00:00	Lateral:	No
Start Date:	1948-05-01 00:00:00	bottom long27:	
Status as of:	June 2020	bottom lat27:	
DB Source:		Longitude Nad27:	
Class ID:		Latitude Nad27:	
Capped Date:	1948-05-19 00:00:00	E/W (m):	121.92 W
Depth Reached:	1948-05-19 00:00:00	Lot Sides (m):	121.92 S
Completion Date:	NULL	Bottom Long NAD83:	-79.13461694
Well Pool:	NULL	Bottom Lat NAD83:	43.03047361
Depth(m):	153.92	Surface Long NAD83:	-79.13461694
Permit Date:	NULL	Surface Lat NAD83:	43.03047361
UWI Code:	F014190	Conc:	I
W Class ID:	2362	Lot:	3
Well Compl ID:	26081	Block:	NULL
	26113	County:	Welland
Well ID:			

Elevation (m):	1.22	Geology/Water:	Geology
Geology Formation:	Queenston	Elevation / Top (m):	1.22 / 152.70
Type of Water:	n/a		
Linear Mar	F04 4400	0	
License No:	F014190	Source:	MNR
Top (m):	138.38	Static Level (m):	n/a
Elevation (m):	15.54	Geology/Water:	Geology
Geology Formation:	Cabot Head	Elevation / Top (m):	15.54 / 138.38
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	96.62	Static Level (m):	n/a
Elevation (m):	57.30	Geology/Water:	Geology
Geology Formation:	Rochester	Elevation / Top (m):	57.30 / 96.62
Type of Water:	n/a	,	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
License No:	F014190	Source:	FORM 7
Top (m):	21.34	Static Level (m):	n/a
Elevation (m):	132.59	Geology/Water:	Geology
Geology Formation:	B Anhydrite	Elevation / Top (m):	132.59 / 21.34
Type of Water:	n/a		
License No:	F014190	Source:	MNR
Top (m):	123.14	Static Level (m):	n/a
Elevation (m):	30.78	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	30.78 / 123.14
Type of Water:	n/a		
License No:	F014190	Source:	MNR
Top (m):	36.58	Static Level (m):	n/a
Elevation (m):	117.34	Geology/Water:	Geology
Geology Formation:	Guelph	Elevation / Top (m):	117.34 / 36.58
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	111.86	Static Level (m):	n/a
Elevation (m):	42.06	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	42.06 / 111.86
Type of Water:	n/a		
License No:	F014190	Source:	n/a
Top (m):	12.19	Static Level (m):	NULL
Elevation (m):	n/a	Geology/Water:	Water
Geology Formation:	Drift	Elevation / Top (m):	n/a / 12.19
Type of Water:	Fresh	,	
License No:	F014190	Source:	MNR

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		-	
Top (m):	111.86	Static Level (m):	n/a
Elevation (m):	42.06	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	42.06 / 111.86
Type of Water:	n/a		
License No:	F014190	Source:	n/a
Top (m):	12.12	Static Level (m):	6.40
Elevation (m):	n/a	Geology/Water:	Water
	Drift		n/a / 12.12
Geology Formation: Type of Water:	Fresh	Elevation / Top (m):	11/d / 12.12
Type of Water.	FIESH		
License No:	F014190	Source:	MNR
Top (m):	21.34	Static Level (m):	n/a
Elevation (m):	132.58	Geology/Water:	Geology
Geology Formation:	B Anhydrite	Elevation / Top (m):	132.58 / 21.34
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	152.70	Static Level (m):	n/a
Elevation (m):	1.22	Geology/Water:	Geology
Geology Formation:	Queenston	Elevation / Top (m):	1.22 / 152.70
Type of Water:	n/a		
Linear Net	504.4400	0	
License No:	F014190	Source:	MNR
Top (m):	147.52	Static Level (m):	n/a
Elevation (m):	6.40	Geology/Water:	Geology
Geology Formation:	Whirlpool	Elevation / Top (m):	6.40 / 147.52
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	123.14	Static Level (m):	n/a
Elevation (m):	30.78	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	30.78 / 123.14
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	147.52	Static Level (m):	n/a
Elevation (m):	6.40	Geology/Water:	Geology
Geology Formation:	Whirlpool	Elevation / Top (m):	6.40 / 147.52
Type of Water:	n/a		
License No:	F014190	Source:	FORM 7
Top (m):	36.58	Static Level (m):	n/a
Elevation (m):	117.35	Geology/Water:	Geology
Geology Formation:	Guelph	Elevation / Top (m):	117.35 / 36.58
Type of Water:	n/a	······································	
i jpo oi mator.	100		

License No:	F014190	Source:	FORM 7
Top (m):	138.38	Static Level (m):	n/a
Elevation (m):	15.54	Geology/Water:	Geology
Geology Formation:	Cabot Head	Elevation / Top (m):	15.54 / 138.38
Type of Water:	n/a		
License No:	F014190	Source:	n/a
Top (m):	20.73	Static Level (m):	NULL
Elevation (m):	n/a	Geology/Water:	Water
Geology Formation:	A-2 Carbonate	Elevation / Top (m):	n/a / 20.73
Type of Water:	Sulphur		

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
18	WSW	0.23	227.73	177.95	OOGW
Licence No:	F014	144	Well Compl:	26072	
Well ID:	26063	3	County:	Welland	
Well Compl ID:	26072	2	Block:	NULL	
W Class ID:	2362		Lot:	5	
UWI Code:	F014	144	Conc:	ABF	
Permit Date:	NULL		Surface Lat NAD83:	43.03789500	
Depth(m):	141.4	3	Surface Long NAD83:	-79.14611111	
Well Pool:	NULL		Bottom Lat NAD83:	43.03789500	
Completion Date:	NULL		Bottom Long NAD83:	-79.14611111	
Depth Reached:	1948-	08-20 00:00:00	Lot Sides (m):	698.80 N	
Capped Date:	NULL		E/W (m):	212.80 W	
Class ID:			Latitude Nad27:		
DB Source:			Longitude Nad27:		
Status as of:	June	2020	bottom lat27:		
Start Date:	1948-	07-28 00:00:00	bottom long27:		
SPUD Date:	1948-	07-28 00:00:00	Lateral:	No	
Class:	DEV		Accuracy:	50	
Grnd Elev:	141.4	-3	Method:	Well Records (1921 to	1954)
KB Elev:	141.4	3	Parent:	NULL	
TVD:	141.4	-3	Prod Top:	110.03	
PBTD:	NULL		Prod Bot:	125.27	
TD Form:	Quee	nston	PROPD Depth:	152.40	
Workover D:	NULL		Location Method:	Well Records (1921 to	1954)
Operator:	W. C.	Patterson Gas Co. Ltd.	Location Accuracy:	Within 50 metres	
Township:	Crow	land	Dt Obtained:	NULL	
Well Name:	W.C.	Patterson C.A. Biggar #2			
Target:	CLI				
Target Desc:	IRON	DEQUOIT FORMATIONS		EDINA) GROUPS (WHIRLPOO	LTO
Well Status Type:		al Gas Well			
Status Type Desc:			MERLY USED TO PRODUC	E NATURAL GAS FROM A RE	SERVOIR
Well Status Mode:	Unkn	own			

wells and Addit	Ional Sources Detail I	Report				
Olatua Mada Daara						
Status Mode Desc:						
Classification:		DEVELOPMENT				
Classification Desc:	FROM OR EXTENDING A PO BEEN DRILLED	"DEVELOPMENT WELL" MEANS A WELL THAT IS DRILLED FOR THE PURPOSE OF PRODUCING FROM OR EXTENDING A POOL OF OIL OR GAS INTO WHICH ANOTHER WELL HAS ALREADY BEEN DRILLED				
Cement Rec:	NULL					
Comments:	Accuracy is approximate and n	not verified.				
License No:	F014144	Source:	FORM 7			
Top (m):	125.27	Static Level (m):	n/a			
Elevation (m):	16.15	Geology/Water:	Geology			
Geology Formation:	Cabot Head	Elevation / Top (m):	16.15 / 125.27			
Type of Water:	n/a					
	174					
License No:	F014144	Source:	n/a			
Top (m):	12.80	Static Level (m):	NULL			
Elevation (m):	n/a	Geology/Water:	Water			
Geology Formation:	Drift	Elevation / Top (m):	n/a / 12.80			
Type of Water:	Fresh					
License No:	F014144	Source:	MNR			
Top (m):	32.60	Static Level (m):	n/a			
Elevation (m):	108.83	Geology/Water:	Geology			
Geology Formation:	Guelph	Elevation / Top (m):	108.83 / 32.60			
Type of Water:	n/a					
License No:	F014144	Source:	n/a			
Top (m):	0.00	Static Level (m):	NULL			
Elevation (m):	n/a	Geology/Water:	Water			
Geology Formation:	Drift	Elevation / Top (m):	n/a / 0.00			
Type of Water:	Fresh					
License No:	F014144	Source:	MNR			
Top (m):	81.08	Static Level (m):	n/a			
Elevation (m):	60.35	Geology/Water:	Geology			
Geology Formation:	Rochester	Elevation / Top (m):	60.35 / 81.08			
Type of Water:	n/a					
License No:	F014144	Source:	n/a			
Top (m):	29.26	Static Level (m):	NULL			
Elevation (m):	n/a	Geology/Water:	Water			
Geology Formation:	Drift	Elevation / Top (m):	n/a / 29.26			
Type of Water:	Sulphur					

Source:

Static Level (m):

Geology/Water:

License No: Top (m): Elevation (m):

erisinfo.com Environmental Risk Information Services

F014144

132.59

8.84

Order No: 21081100468p

MNR

Geology

n/a

Geology Formation:	Whirlpool	Elevation / Top (m):	8.84 / 132.59
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	81.08	Static Level (m):	n/a
Elevation (m):	60.35	Geology/Water:	Geology
Geology Formation:	Rochester	Elevation / Top (m):	60.35 / 81.08
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	132.59	Static Level (m):	n/a
Elevation (m):	8.84	Geology/Water:	Geology
Geology Formation:	Whirlpool	Elevation / Top (m):	8.84 / 132.59
Type of Water:	n/a		
<i>,</i>			
License No:	F014144	Source:	FORM 7
Top (m):	29.60	Static Level (m):	n/a
Elevation (m):	111.83	Geology/Water:	Geology
Geology Formation:	A-2 Carbonate	Elevation / Top (m):	111.83 / 29.60
Type of Water:	n/a		
License No:	F014144	Source:	MNR
Top (m):	99.36	Static Level (m):	n/a
Elevation (m):	42.06	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	42.06 / 99.36
Type of Water:	n/a		
License No:	F014144	Source:	MNR
Top (m):	140.21	Static Level (m):	n/a
Elevation (m):	1.22	Geology/Water:	Geology
Geology Formation:	Queenston	Elevation / Top (m):	1.22 / 140.21
Type of Water:	n/a		
License No:	F014144	Source:	n/a
Top (m):	21.95	Static Level (m):	NULL
Elevation (m):	n/a	Geology/Water:	Water
Geology Formation:	Drift	Elevation / Top (m):	n/a / 21.95
Type of Water:	Sulphur		
License No:	F014144	Source:	MNR
Top (m):	29.60	Static Level (m):	n/a
Elevation (m):	111.83	Geology/Water:	Geology
Geology Formation:	A-2 Carbonate	Elevation / Top (m):	111.83 / 29.60
Type of Water:	n/a	/	
License No:	F014144	Source:	MNR
Top (m):	110.03	Static Level (m):	n/a

Elevation (m):	31.39	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	31.39 / 110.03
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	99.36	Static Level (m):	n/a
Elevation (m):	42.06	Geology/Water:	Geology
Geology Formation:	Irondequoit	Elevation / Top (m):	42.06 / 99.36
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	140.21	Static Level (m):	n/a
Elevation (m):	1.22	Geology/Water:	Geology
Geology Formation:	Queenston	Elevation / Top (m):	1.22 / 140.21
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	32.61	Static Level (m):	n/a
Elevation (m):	108.81	Geology/Water:	Geology
Geology Formation:	Guelph	Elevation / Top (m):	108.81 / 32.61
Type of Water:	n/a		
License No:	F014144	Source:	FORM 7
Top (m):	110.03	Static Level (m):	n/a
Elevation (m):	31.39	Geology/Water:	Geology
Geology Formation:	Grimsby	Elevation / Top (m):	31.39 / 110.03
Type of Water:	n/a		
License No:	F014144	Source:	MNR
	125.27	Static Level (m):	n/a
Top (m): Elevation (m):	16.15	Geology/Water:	Geology
Geology Formation:	Cabot Head	Elevation / Top (m):	Geology 16.15 / 125.27
Type of Water:	n/a		10.10/120.21

Water Well Information System

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
1	-	0.00	0.00	181.50	WWIS
Well ID: Construction Date: Primary Water Use Sec. Water Use: Final Well Status:	: Dome 0		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	1 12/7/1960 True	
Water Type: Casing Material:			Contractor: Form Version:	5425 1	
Audit No: Tag:			Owner: Street Name:		

Or not most in a Matthews		Ocumentum	
Construction Method: Elevation (m):		County: Municipality:	NIAGARA NIAGARA FALLS CITY
			(CROWLAND)
Elevation Reliability:		Site Info: Lot:	003
Depth to Bedrock: Well Depth:		Concession:	003
Overburden/Bedrock:		Concession Name:	BF
Pump Rate:		Easting NAD83:	Dr
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:		,	
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.ne	at/moe_manning/downloads/2)	Water/Wells_ndfs/660\6600619.ndf
	https://dzknazkoeo5idv.cloudhoht.ht	evmoe_mapping/downloads/24	
Well Completed Date:	1960/08/26		
Year Completed:	1960		
Depth (m):	31.3944		
Latitude:	43.041119492753		
Longitude:	-79.1338171511863		
Path:	660\6600619.pdf		
Bore Hole ID:	10460353	Elevation:	175.633911
DP2BR:	92.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	652009.90
Code OB Desc:	Bedrock	North83:	4767071.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	26-Aug-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment: Supplier Comment:			
Formation ID:	022580424		
Formation ID:	932589424		
Layer:	2		

6

05 CLAY

BROWN

General Color:

Most Common Material:

Color:

Mat1:

Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	1.0 17.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth:	932589423 1 02 TOPSOIL 0.0 1.0
Formation End Depth UOM:	ft
Formation ID: Layer: Color: General Color: Mat1:	932589425 3 3 BLUE 05
Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	CLAY
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	17.0 50.0 ft
Formation ID: Layer: Color: General Color: Mat1:	932589428 6 15
Matr. Most Common Material: Mat2:	LIMESTONE

Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	92.0 103.0 ft
Formation ID:	932589426
Layer:	4
Color: General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc: Formation Top Depth:	50.0
Formation End Depth:	83.0
Formation End Depth	ft
UOM:	
Formation ID:	932589427
Formation ID: Layer:	932589427 5
Layer: Color:	
Layer: Color: General Color:	5
Layer: Color: General Color: Mat1:	5
Layer: Color: General Color: Mat1: Most Common Material:	5
Layer: Color: General Color: Mat1: Most Common Material: Mat2:	5
Layer: Color: General Color: Mat1: Most Common Material:	5
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc:	5
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth:	5
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth:	5 11 GRAVEL 83.0 92.0
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth:	5 11 GRAVEL 83.0
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth	5 11 GRAVEL 83.0 92.0
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	5 11 GRAVEL 83.0 92.0 ft
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM: Method Construction ID:	5 11 GRAVEL 83.0 92.0 ft 966600619
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM: Method Construction ID: Method Construction Code:	5 11 GRAVEL 83.0 92.0 ft 966600619 1
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM: Method Construction ID: Method Construction Code: Method Construction:	5 11 GRAVEL 83.0 92.0 ft 966600619
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM: Method Construction ID: Method Construction Code:	5 11 GRAVEL 83.0 92.0 ft 966600619 1

Pipe ID:

Casing No:	1
Comment:	
Alt Name:	

Casing ID:	930747644
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	92
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930747645
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	103
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Pump Test ID:	996600619
Pump Set At:	
Static Level:	17.0
Final Level After Pumping:	80.0
Recommended Pump Depth:	80.0
Pumping Rate:	2.0
Flowing Rate:	
Recommended Pump	2.0
Rate:	<i>c.</i>
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	0

Pumping Duration HR:0Pumping Duration MIN:30Flowing:No

Water ID:

Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	100.0
Water Found Depth UOM:	ft

Мар Кеу	Directio	on Distance (km)	Distance (m)	Elevation (m)	DB
2	-	0.00	0.00	174.82	WWIS
Well ID:		7352103	Data Entry Status:		
Construction Date		Monitoring	Data Src: Date Received:	1/27/2020	
Primary Water Us Sec. Water Use:	e. I	Monitoring	Selected Flag:	True	
Final Well Status:	(Observation Wells	Abandonment Rec:		
Water Type:	·		Contractor:	6607	
Casing Material:			Form Version:	9	
Audit No:	Ň	YDGYB4DO	Owner:		
Tag:		A286752	Street Name:	8547 Grassy Brook R	d
Construction Meth	nod:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CIT	Y
Elevation Reliabili	ty:		Site Info:	(CROWLAND) BW 19-1	
Depth to Bedrock:			Lot:	002	
Well Depth:			Concession:		
Overburden/Bedro	ock:		Concession Name:	BF	
Pump Rate:			Easting NAD83:		
Static Water Leve	l:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					
PDF URL (Map):	ł	https://d2khazk8e83rdv.cloud	dfront.net/moe_mapping/down	loads/2Water/Wells_pdfs/735\73	352103.pdf
Well Completed D	ate:	2019/12/10			
Year Completed:		2019			
Depth (m):		8.8			
Latitude:	2	43.0452213411566			
Longitude:	-	-79.1318990727809			
Path:	7	735\7352103.pdf			
Bore Hole ID:		1007988085	Elevation:		
DP2BR:			Elevrc:		
Spatial Status:			Zone:	17	
Code OB:			East83:	652156.00	
Code OB Desc:			North83:	4767530.00	

Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	10-Dec-2019 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:			
Formation ID:	1007988974		
Layer:	1		
Color:	6		
General Color:	BROWN		

DROWN
05
CLAY
73
HARD
0.0
3.0
m

Formation ID:	1007988975
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	3.0
Formation End Depth:	7.599999904632568
Formation End Depth UOM:	m

Formation ID:	1007988976
Layer:	3
Color:	2

General Color: Mat1: Most Common Material: Mat2: Mat2 Desc:	GREY 05 CLAY
Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	85 SOFT 7.599999904632568 8.800000190734863 m
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1007989830 1 0 0.300000011920929 m
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1007989520 1 m
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1007989831 2 0.300000011920929 6.69999980926514 m
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	1007988499 6 Boring
Pipe ID: Casing No: Comment: Alt Name:	1007988380 0

Screen ID:

1007989255

Layer:	1
Slot:	10
Screen Top Depth:	7.30000019073486
Screen End Depth:	8.80000019073486
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.40000009536743

Pump Test ID:	1007988381
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth: Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code: Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole ID:	1007989374
Diameter:	21.0
Depth From:	0.0
Depth To:	8.800000190734863
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
3	-	0.00	0.00	153.92	WWIS
Well ID:	7289	552	Data Entry Status:	Yes	
Construction Date	:		Data Src:		
Primary Water Us	e:		Date Received:	7/5/2017	
Sec. Water Use:			Selected Flag:	True	
Final Well Status:			Abandonment Rec:		
Water Type:			Contractor:	7215	
Casing Material:			Form Version:	8	

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: PDF URL (Map):		16	Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	NIAGARA NIAGARA FALLS CIT (CROWLAND)	ΓY
Well Completed Date Year Completed: Depth (m): Latitude: Longitude: Path:	2017 43.04	05/18 48357335389 386263828336			
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	18-Ma e: on	302828 ay-2017 00:00:00	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	151.436645 17 651609.00 4767475.00 UTM83 4 margin of error : 30 m wwr	1 - 100 m
Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
4	-	0.00	0.00	159.58	WWIS
Well ID:	66006	615	Data Entry Status:		

197

Construction Date:		Data Src:	1
Primary Water Use:	Not Used	Date Received:	1/6/1961
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Test Hole	Abandonment Rec:	
Water Type:		Contractor:	2801
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	NIAGARA
Elevation (m):		Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliability:		Site Info:	· · · ·
Depth to Bedrock:		Lot:	003
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	BF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600615.pdf

1960/07/08
1960
25.6032
43.0454244026738
-79.1371733651039
660\6600615.pdf

Bore Hole ID:	10460349	Elevation:	162.610549
DP2BR:	83.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	651725.90
Code OB Desc:	Bedrock	North83:	4767543.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	08-Jul-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			

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

Formation ID: Layer: Color:	932589403 5
General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	05 CLAY 11 GRAVEL 13 BOULDERS 42.0 45.0 ft
Formation ID: Layer: Color:	932589399 1
General Color: Mat1: Most Common Material: Mat2:	02 TOPSOIL
Mat2 Desc: Mat3:	
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 1.0 ft
Formation ID: Layer: Color:	932589408 10
General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	05 CLAY 13 BOULDERS
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	81.0 83.0 ft

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932589401 3 7 RED 05 CLAY
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	9.0 26.0 ft
Formation ID: Layer: Color:	932589406 8
General Color: Mat1: Most Common Material: Mat2:	05 CLAY 11
Mat2 Desc: Mat3: Mat3 Desc:	GRAVEL 13 BOULDERS
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	64.0 76.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2:	932589402 4 3 BLUE 05 CLAY
Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	26.0 42.0 ft

Formation ID:	932589407
Layer:	9
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	76.0
Formation End Depth:	81.0
Formation End Depth	ft
UOM:	
Formation ID:	932589404
Layer:	6
Color:	7
General Color:	RED
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	45.0
Formation End Depth:	50.0
Formation End Depth	ft
UOM:	
Formation ID:	932589400
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Mate Beee.	
Formation Top Depth:	1.0
	1.0 9.0
Formation Top Depth:	

Formation ID:

932589405

	7
Layer: Color:	7
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	64.0
Formation End Depth	ft
UOM:	
Formation ID:	932589409
	932569409
Layer: Color:	11
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	83.0
Formation End Depth:	84.0
Formation End Depth	ft
UOM:	
Method Construction ID:	966600615
Method Construction	1
Code:	I
Method Construction:	Cable Tool
Other Method Construction:	
Construction.	
Pipe ID:	11008919
Casing No:	1
Comment:	·
Alt Name:	
Casing ID:	930747638
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	· –

Depth To:	75			
Casing Diameter:	5			
Casing Diameter UOM:	inch			
Casing Depth UOM:	ft			
Screen ID:	933385506			
Layer:	1			
Slot:				
Screen Top Depth:	75			
Screen End Depth:	78			
Screen Material:				
Screen Depth UOM:	ft			
Screen Diameter UOM:	inch			
Screen Diameter:				
Dump Test ID:	000000045			
Pump Test ID:	996600615			
Pump Set At: Static Level:	10.0			
Final Level After Pumping:	30.0			
Recommended Pump Depth:				
Pumping Rate:	14.0			
Flowing Rate:				
Recommended Pump				
Rate: Levels UOM:	ft			
Rate UOM:	GPM			
Water State After Test	2			
Code:				
Water State After Test:	CLOUDY			
Pumping Test Method:	1			
Pumping Duration HR:	8			
Pumping Duration MIN:	0			
Flowing:	No			
Water ID:	933947883			
Layer:	1			
Kind Code:	1			
Kind:	FRESH			
Water Found Depth:	75.0			
Water Found Depth UOM:	ft			
	tion Distance (km)	Distance (m)	Elovation (m)	РР

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
5	-	0.00	0.00	176.83	WWIS

Well ID:	6600617	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/19/1956
Sec. Water Use:	0	Selected Flag:	True
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
Elevation (m):		Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	003
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	BF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			
PDF URL (Map):	https://d2kbazk8e83rdv.cloudfront.pr	et/moe_mapping/downloads/2	Water/Wells_pdfs/660\6600617.pd

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600617.pdf

Well Completed Date:	1956/05/29
Year Completed:	1956
Depth (m):	24.0792
Latitude:	43.031910440721
Longitude:	-79.1345381736084
Path:	660\6600617.pdf

Bore Hole ID:	10460351	Elevation:	177.264419
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:	0	East83:	651973.90
Code OB Desc:	Overburden	North83:	4766047.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	29-May-1956 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			

Method: Source Revision Comment:

Improvement Location

Improvement Location

Source:

Supplier Comment:

Formation ID:	932589413
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth	ft
UOM:	
Formation ID:	932589416
Layer:	4
Color:	-
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	33.0
Formation End Depth:	70.0
Formation End Depth	ft
UOM:	
	000500447
Formation ID:	932589417
Layer:	5
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	70.0
Formation Top Depth:	70.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft
00IWI.	

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932589414 2 6 BROWN 05 CLAY
Mat3 Desc: Formation Top Depth:	1.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc:	932589415 3 3 BLUE 05 CLAY
Mat3:	
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	17.0 33.0 ft
Formation ID: Layer: Color:	932589418 6
General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	11 GRAVEL
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	75.0 79.0 ft

Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	966600617 1 Cable Tool
Pipe ID: Casing No: Comment: Alt Name:	11008921 1
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930747641 1 1 STEEL 79 6 inch ft
Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump	996600617 12.0 19.0 12.0
Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:	ft GPM 2 CLOUDY 1 0 30 No
Water ID: Layer: Kind Code:	933947885 1 3

Kind:	SULPHUR
Water Found Depth:	79.0
Water Found Depth UOM:	ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
6	-	0.00	0.00	176.83	WWIS
Well ID:	7352	071	Data Entry Status:		
Construction Date	:		Data Src:		
Primary Water Use	e: Monit	toring	Date Received:	1/27/2020	
Sec. Water Use:			Selected Flag:	True	
Final Well Status:	Obse	ervation Wells	Abandonment Rec:		
Water Type:			Contractor:	6607	
Casing Material:			Form Version:	9	
Audit No:	JJVIA	A8GX	Owner:		
Tag:	A286	754	Street Name:	8547 Grassy Brook Rd	
Construction Meth	od:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reliabilit	y:		Site Info:	BW 19-2	
Depth to Bedrock:			Lot:	003	
Well Depth:			Concession:		
Overburden/Bedro	ock:		Concession Name:	BF	
Pump Rate:			Easting NAD83:		
Static Water Level	:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/735\7352071.pdf

Well Completed Date:	2019/12/11
Year Completed:	2019
Depth (m):	8.8
Latitude:	43.0319260108499
Longitude:	-79.1332844671665
Path:	735\7352071.pdf

Bore Hole ID:	1007987989	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	652076.00
Code OB Desc:		North83:	4766051.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4

Date Completed: 11-Dec-2019 00:00:00 UTMRC Desc: margin of error : 30 m - 100 m Remarks: Location Method: wwr Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Formation ID:	1007988884
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	6.0
Formation End Depth:	8.800000190734863
Formation End Depth UOM:	m

Formation ID:	1007988883	
Layer:	2	
Color:	6	
General Color:	BROWN	
Mat1:	05	
Most Common Material:	CLAY	
Mat2:		
Mat2 Desc:		
Mat3:	73	
Mat3 Desc:	HARD	
Formation Top Depth:	3.0	
Formation End Depth:	6.0	
Formation End Depth UOM:	m	

Formation ID:	1007988882
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05

Most Common Material: Mat2:	CLAY
Mat2 Desc:	73
Mat3: Mat3 Desc:	HARD
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth	m
UOM:	
Plug ID:	1007989705
Layer:	2
Plug From:	0.300000011920929
Plug To:	6.69999980926514
Plug Depth UOM:	m
Plug ID:	1007989704
Layer:	1
Plug From:	0
Plug To:	0.300000011920929
Plug Depth UOM:	m
Plug ID:	1007090/99
Plug ID:	1007989488
Layer:	1007989488 1
Layer: Plug From:	
Layer: Plug From: Plug To:	1
Layer: Plug From:	
Layer: Plug From: Plug To: Plug Depth UOM:	1 m
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID:	1 m 1007988469
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code:	1 m 1007988469 6
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction:	1 m 1007988469
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method	1 m 1007988469 6
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction:	1 m 1007988469 6
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	1 m 1007988469 6 Boring
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID:	1 m 1007988469 6 Boring 1007988316
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No:	1 m 1007988469 6 Boring
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No: Comment:	1 m 1007988469 6 Boring 1007988316
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No:	1 m 1007988469 6 Boring 1007988316
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No: Comment: Alt Name:	1 m 1007988469 6 Boring 1007988316 0
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No: Comment: Alt Name: Screen ID:	1 m 1007988469 6 Boring 1007988316 0
Layer: Plug From: Plug To: Plug Depth UOM: Method Construction ID: Method Construction Code: Method Construction: Other Method Construction: Pipe ID: Casing No: Comment: Alt Name:	1 m 1007988469 6 Boring 1007988316 0

Screen Top Depth:	7.30000019073486
Screen End Depth:	8.80000019073486
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.40000009536743
Pump Test ID:	1007988317
Pump Set At:	

Static Level: Final Level After Pumping: **Recommended Pump** Depth: Pumping Rate: Flowing Rate: **Recommended Pump** Rate: Levels UOM: m Rate UOM: LPM Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:

Hole ID:	1007989340
Diameter:	21.0
Depth From:	0.0
Depth To:	8.800000190734863
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
7	SSW	0.06	56.76	177.83	WWIS
Well ID:	6600	625	Data Entry Status:		
Construction Date	:		Data Src:	1	
Primary Water Us	e: Lives	tock	Date Received:	7/19/1956	
Sec. Water Use:	Dome	estic	Selected Flag:	True	
Final Well Status:	Wate	r Supply	Abandonment Rec:		
Water Type:			Contractor:	5425	
Casing Material:			Form Version:	1	
Audit No:			Owner:		
Tag:			Street Name:		

	•		
Construction Method:		County:	NIAGARA
Elevation (m):		Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliability:		Site Info:	(CROWLAND)
Depth to Bedrock:		Lot:	004
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.ne	et/moe_mapping/downloads/2\	Water/Wells_pdfs/660\6600625.pdf
Well Completed Date:	1956/05/14		
Year Completed Date.	1956		
Depth (m):	17.6784		
Latitude:	43.0312074467121		
Longitude:	-79.1411385713267		
Path:	660\6600625.pdf		
r aui.	000/0000023.pui		
Bore Hole ID:	10460359	Elevation:	170 000005
DP2BR:	47.00	Elevrc:	178.962265
	47.00	Zone:	17
Spatial Status: Code OB:	-	East83:	651437.90
Code OB Desc:	r Bedrock	North83:	4765957.00
	Declock		4785957.00
Open Hole:		Org CS: UTMRC:	0
Cluster Kind:	14 May 1050 00:00:00		9
Date Completed: Remarks:	14-May-1956 00:00:00	UTMRC Desc: Location Method:	unknown UTM
Elevrc Desc:		Location Method.	p9
Location Source Date:			
Improvement Location			
Source:			
Improvement Location			
Method: Source Revision			
Comment:			
Supplier Comment:			
Formation ID:	932589451		
I average	0		

		-	
Most Common Material:	CLAY		
Mat1:	05		
General Color:	BLUE		
Color:	3		
Layer:	3		
Formation ID:	932589451		

Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	17.0 47.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	932589449 1 02 TOPSOIL
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 2.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	932589452 4 6 BROWN 15 LIMESTONE
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	47.0 58.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2:	932589450 2 6 BROWN 05 CLAY

Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	2.0 17.0 ft
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	966600625 1 Cable Tool
Pipe ID: Casing No: Comment: Alt Name:	11008929 1
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930747656 2 4 OPEN HOLE 58 6 inch ft
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930747655 1 1 STEEL 48 6 inch ft
Pump Test ID: Pump Set At: Static Level: Final Level After Pumping:	996600625 19.0 24.0

Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate:	8.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No
Water ID:	933947893

Water ID.	000011000
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	56.0
Water Found Depth UOM:	ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
8	SSE	0.06	62.27	176.83	WWIS
Well ID:	6600	616	Data Entry Status:		
Construction Date	:		Data Src:	1	
Primary Water Us	e: Dom	estic	Date Received:	11/21/1960	
Sec. Water Use:	0		Selected Flag:	True	
Final Well Status:	Wate	er Supply	Abandonment Rec:		
Water Type:			Contractor:	4720	
Casing Material:			Form Version:	1	
Audit No:			Owner:		
Tag:			Street Name:		
Construction Meth	nod:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reliabili	ty:		Site Info:		
Depth to Bedrock:			Lot:	002	
Well Depth:			Concession:		
Overburden/Bedro	ock:		Concession Name:	BF	
Pump Rate:			Easting NAD83:		
Static Water Leve	l:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600616.pdf

Well Completed Date: Year Completed: Depth (m): Latitude: Longitude:	1960/11/16 1960 20.4216 43.031952009658 -79.1321188207846		
Path:	660\6600616.pdf		
Bore Hole ID:	10460350	Elevation:	177.788757
DP2BR:	62.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	652170.90
Code OB Desc:	Bedrock	North83:	4766056.00
Open Hole:		Org CS:	_
Cluster Kind:		UTMRC:	5
Date Completed:	16-Nov-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date: Improvement Location Source: Improvement Location			
Method: Source Revision Comment: Supplier Comment:			
Formation ID:	932589411		
Layer:	2		
Color:	2		
General Color:			
Mat1:	11		
Most Common Material:	GRAVEL		
Mat2:	•••••		
Mat2 Desc:			
Mat3:			
Mat3 Desc:			
Formation Top Depth:	49.0		
Formation End Depth:	62.0		
Formation End Depth UOM:	ft		
Formation ID:	932589412		
Layer:	3		
Color:			
	Environmental Risk Information Serv	ices	Order No: 21081100468p
216 erisinto.com			

General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth	15 LIMESTONE 62.0 67.0 ft
UOM:	
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth Formation End Depth	932589410 1 3 BLUE 05 CLAY 0.0 49.0 ft
UOM:	
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	966600616 1 Cable Tool
Pipe ID: Casing No: Comment: Alt Name:	11008920 1
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	930747640 2 4 OPEN HOLE 67 6

Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930747639 1 1 STEEL 62 6 inch ft
Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:	996600616 28.0 28.0 10.0 10.0 ft GPM 1 CLEAR 1 1 0 No
Water ID:	933947884
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	67.0
Water Found Depth UOM:	ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
9	SSW	0.06	63.34	176.83	WWIS
Well ID: Construction Date:	66006	518	Data Entry Status: Data Src:	1	

Primary Water Use: Sec. Water Use: Final Well Status: 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:	Livestock Domestic Water Supply	Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83:	3/23/1960 True 4720 1 NIAGARA NIAGARA FALLS CITY (CROWLAND) 003 BF
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PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600618.pdf

Well Completed Date:	1960/01/22
Year Completed:	1960
Depth (m):	21.336
Latitude:	43.0322752193854
Longitude:	-79.1375835101189
Path:	660\6600618.pdf

Bore Hole ID:	10460352	Elevation:	177.681243
DP2BR:	65.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	651724.90
Code OB Desc:	Bedrock	North83:	4766082.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	22-Jan-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			

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

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	932589421 3 3 BLUE 05 CLAY
Formation Top Depth:	40.0
Formation End Depth:	65.0
Formation End Depth	ft
Formation ID:	932589422
Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	05.0
Formation Top Depth:	65.0
Formation End Depth:	70.0
Formation End Depth UOM:	ft
Formation ID:	932589419
Layer:	1
Color:	7
General Color:	RED
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	0.0
Formation Top Depth:	0.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

220

Formation ID: Layer: Color: General Color:	932589420 2
Mat1:	14
Matt. Most Common Material:	HARDPAN
Most Common Material.	HANDFAN
Mat2 Desc:	
Mat2 Desc. Mat3:	
Mat3 Desc:	
Formation Top Depth:	24.0
Formation End Depth:	40.0
Formation End Depth	ft
UOM:	
Method Construction ID:	966600618
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method	
Construction:	
Pipe ID:	11008922
Casing No:	1
Comment:	
Alt Name:	
0 1 15	0007/70/0
Casing ID:	930747642
Layer: Material:	1
Open Hole or Material:	STEEL
Depth From:	SIEEL
Depth To:	65
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930747643
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	70
Casing Diameter:	5
Casing Diameter UOM:	inch

ft

Pump Test ID:	996600618
Pump Set At:	
Static Level:	32.0
Final Level After Pumping:	38.0
Recommended Pump Depth:	38.0
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Casing Depth UOM:

Water ID:	933947886
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
10	E	0.09	90.11	172.46	WWIS
Well ID:	6602	2673	Data Entry Status:		
Construction Date	:		Data Src:	1	
Primary Water Use	e: Dom	estic	Date Received:	8/8/1972	
Sec. Water Use:	0		Selected Flag:	True	
Final Well Status:	Wate	er Supply	Abandonment Rec:		
Water Type:			Contractor:	3608	
Casing Material:			Form Version:	1	
Audit No:			Owner:		
Tag:			Street Name:		
Construction Meth	od:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (WILLOUGHBY)	
Elevation Reliabilit	y:		Site Info:	(
Depth to Bedrock:			Lot:	010	
Well Depth:			Concession:		

Overburden/Bedrock:				
Pump Rate:				
Static Water Level:				
Flowing (Y/N):				
Flow Rate:				
Clear/Cloudy:				

Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: BF WR

PDF URL (Map):

Location Source Date: Improvement Location

Improvement Location

Supplier Comment:

Source:

Method: Source Revision Comment: https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6602673.pdf

1972/07/17
1972
24.9936
43.0400517727672
-79.1224940371783
660\6602673.pdf

Bore Hole ID:	10462400	Elevation:	175.578491
DP2BR:	79.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	652934.90
Code OB Desc:	Bedrock	North83:	4766973.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	17-Jul-1972 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			

Formation ID:	932595886
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	77.0

Formation End Depth: Formation End Depth UOM:	79.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	932595884 1 6 BROWN 05 CLAY
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 15.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	932595885 2 7 RED 05 CLAY 06 SILT 15.0 77.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3 Desc: Formation Top Depth: Formation End Depth:	932595887 4 2 GREY 15 LIMESTONE 79.0 82.0

Formation End Depth UOM:	ft
Method Construction ID:	966602673
Method Construction	1
Code: Method Construction:	Cable Tool
Other Method	
Construction:	
Pipe ID:	11010970
Casing No:	1
Comment:	
Alt Name:	
	000754040
Casing ID:	930751313
Layer: Material:	2
Open Hole or Material:	4 OPEN HOLE
Depth From:	OPEN HOLE
Depth To:	82
Casing Diameter:	02
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
5 1	
Casing ID:	930751312
Layer: Material:	1
Open Hole or Material:	1 STEEL
Depth From:	
Depth To:	79
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Pump Test ID:	996602673
Pump Set At:	
Static Level:	23.0
Final Level After Pumping:	45.0
Recommended Pump	75.0
Depth: Pumping Pate:	10.0
Pumping Rate: Flowing Rate:	10.0
Recommended Pump Rate:	10.0
	Environmental Dick Information Capricas

Levels UOM:	ft
Rate UOM:	GPM
Water State After Test	1
Code: Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No
i lowing.	
Pump Test Detail ID:	934341801
Test Type:	Recovery
Test Duration:	15
Test Level:	23.0
Test Level UOM:	ft
Pump Test Detail ID:	935128156
Test Type:	Recovery
Test Duration:	60
Test Level:	23.0
Test Level UOM:	ft
Pump Test Detail ID:	934609159
Test Type:	Recovery
Test Duration:	30
Test Level:	23.0
Test Level UOM:	ft
Pump Test Detail ID:	934863383
Test Type:	Recovery
Test Duration:	45
Test Level:	23.0
Test Level UOM:	ft
Water ID:	933949992
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Kind: Water Found Depth:	SULPHUR 81.0

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
11	SSE	0.10	102.55	176.83	WWIS
226	erisinfo.com Environmental Risk Information Services			Order No	: 21081100468p

Well ID:	6604508	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/8/2001
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3640
Casing Material:		Form Version:	1
Audit No:	213677	Owner:	
Tag:		Street Name:	
Construction Method:		County:	NIAGARA
Elevation (m):		Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliability:		Site Info:	(0100112,012)
Depth to Bedrock:		Lot:	002
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			
Well Completed Date: Year Completed: Depth (m):	https://d2khazk8e83rdv.cloudfront.ne 2000/09/04 2000 25.2984		
Latitude:	43.0311039634278		
Longitude:	-79.1320205751532		
Path:	660\6604508.pdf		
Bore Hole ID:	10464105	Elevation:	178.030990
DP2BR:	71.00	Elevrc:	
Spatial Status:	Improved	Zone:	17
Code OB:	r	East83:	652181.00
Code OB Desc:	Bedrock	North83:	4765962.00
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	04-Sep-2000 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:	1999-2004 MOE Water Well Data Im	provement Project	
Improvement Location	GIS		

Method:

Source Revision Comment:	Northing and/or Easting field has been changed. Location estimated from sketch map.
Supplier Comment:	Determined to be an improvement rather than a Lot Centroid in December 2009.

Formation ID:	932602923
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	40.0
Formation End Depth:	50.0
Formation End Depth	ft
UOM:	
Formation ID:	000000004
	932602921
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	66
Mat2 Desc:	DENSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	20.0
Formation End Depth	ft
UOM:	
Formation ID:	932602925
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	11
Matt. Most Common Material:	GRAVEL
Most Common Material.	GRAVEL 12
Mat2. Mat2 Desc:	STONES
Mat3:	79 DAOKED
Mat3 Desc:	PACKED

65.0

Formation Top Depth:

Formation End Depth:	71.0
Formation End Depth	ft
UOM:	
Formation ID:	00000000
Formation ID:	932602922
Layer: Color:	3 7
	7 RED
General Color:	
Mat1: Most Common Material:	05 CLAY
Mat2: Mat2 Desc:	66 DENSE
Mat2 Desc.	DENSE
Mat3 Desc:	
Formation Top Depth:	20.0
	40.0
Formation End Depth:	40.0 ft
Formation End Depth UOM:	п
Formation ID:	932602926
Layer:	7
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	71.0
Formation End Depth:	83.0
Formation End Depth	ft
UOM:	
Formation ID:	932602920
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation Top Depth.	45.0

15.0

ft

Formation End Depth UOM:

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth UOM:	932602924 5 6 BROWN 05 CLAY 13 BOULDERS 79 PACKED 50.0 65.0 ft
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	966604508 1 Cable Tool
Pipe ID: Casing No: Comment: Alt Name:	11012675 1
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	930753860 2 6
Casing Diameter UOM: Casing Depth UOM:	inch ft
Casing ID: Layer: Material: Open Hole or Material: Depth From:	930753859 1 1 STEEL

Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	6 inch ft
Pump Test ID: Pump Set At: Static Level:	996604508 25.0
Final Level After Pumping: Recommended Pump Depth:	68.0 70.0
Pumping Rate: Flowing Rate:	6.0
Recommended Pump Rate: Levels UOM:	5.0 ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	
Flowing:	No
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	934612520 Draw Down 30 68.0 ft
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	934345165 Draw Down 15 68.0 ft
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	935122708 Draw Down 60 68.0 ft

Pump Test Detail ID: 934866708

Test Type:	Draw Down
Test Duration:	45
Test Level:	68.0
Test Level UOM:	ft

Water ID:	933951890
Layer:	2
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	75.0
Water Found Depth UOM:	ft

Water ID:	933951889
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	71.0
Water Found Depth UOM:	ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
14	ESE	0.15	153.96	175.83	WWIS
Well ID:	66006	612	Data Entry Status:		
Construction Date	:		Data Src:	1	
Primary Water Use	e: Not U	sed	Date Received:	1/6/1961	
Sec. Water Use:	0		Selected Flag:	True	
Final Well Status:	Test I	Hole	Abandonment Rec:		
Water Type:			Contractor:	2801	
Casing Material:			Form Version:	1	
Audit No:			Owner:		
Tag:			Street Name:		
Construction Meth	od:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reliabilit	ty:		Site Info:	(0)	
Depth to Bedrock:			Lot:	001	
Well Depth:			Concession:		
Overburden/Bedro	ock:		Concession Name:	BF	
Pump Rate:			Easting NAD83:		
Static Water Level	:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600612.pdf

Well Completed Date:	1960/06/22
Year Completed:	1960
Depth (m):	24.6888
Latitude:	43.0349864423041
Longitude:	-79.1244038681013
Path:	660\6600612.pdf

Bore Hole ID:	10460346	Elevation:	177.350769
DP2BR:	80.00	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	652791.90
Code OB Desc:	Bedrock	North83:	4766407.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	22-Jun-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	р5
Elevrc Desc:			
Location Source Date:			

Formation ID:	932589374
Layer:	4
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	39.0
Formation End Depth:	50.0
Formation End Depth UOM:	ft

Improvement Location

Improvement Location

Supplier Comment:

Source:

Method: Source Revision Comment:

Formation ID:	932589376
Layer:	6
Color:	
General Color:	

Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	06 SILT 08 FINE SAND 09 MEDIUM SAND 55.0 63.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth Formation End Depth UOM:	932589372 2 7 RED 05 CLAY 1.0 15.0 ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth Formation End Depth UOM:	932589373 3 2 GREY 05 CLAY 15.0 39.0 ft
Formation ID: Layer: Color: General Color: Mat1:	932589377 7 05

Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	63.0
Formation End Depth:	77.0
Formation End Depth	ft
UOM:	it.
Formation ID:	932589379
Layer:	9
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	80.0
Formation End Depth:	81.0
Formation End Depth UOM:	ft
Formation ID:	932589378
Layer:	8
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	77.0
Formation End Depth:	80.0
Formation End Depth	ft
UOM:	п
_	
Formation ID:	932589375
Layer:	5
Color:	
General Color:	
Mat1:	05
Most Common Material:	

Most Common Material:

235

CLAY

Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	06 SILT 50.0 55.0 ft
Formation ID: Layer: Color: General Color:	932589371 1
Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	02 TOPSOIL
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 1.0 ft
Method Construction ID: Method Construction Code:	966600612 1
Method Construction: Other Method Construction:	Cable Tool
Pipe ID: Casing No: Comment: Alt Name:	11008916 1
Casing ID: Layer:	930747635 1
Material: Open Hole or Material:	1 STEEL
Depth From:	
Depth To: Casing Diameter:	51 5
Casing Diameter UOM:	5 inch
Casing Depth UOM:	ft

Screen ID: Layer:	933385504 1
Slot:	
Screen Top Depth:	51
Screen End Depth: Screen Material:	61
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	
Pump Test ID:	996600612
Pump Set At:	
Static Level:	8.0
Final Level After Pumping:	10.0
Recommended Pump	
Depth: Pumping Rate:	8.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	8
Pumping Duration MIN:	0
Flowing:	No
Water ID:	933947881
Layer:	1
Kind Code:	1 ГРГОЦ
Kind: Water Found Dopth:	FRESH
Water Found Depth:	55.0

Water Found Depth UOM: ft

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
15	ESE	0.16	155.40	175.83	WWIS
Well ID: Construction Date: Primary Water Use Sec. Water Use: Final Well Status:		sed	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	1 1/6/1961 True	

Water Type:	Contractor:	2801
Casing Material:	Form Version:	1
Audit No:	Owner:	
Tag:	Street Name:	
Construction Method:	County:	NIAGARA
Elevation (m):	Municipality:	NIAGARA FALLS CITY (CROWLAND)
Elevation Reliability:	Site Info:	
Depth to Bedrock:	Lot:	001
Well Depth:	Concession:	
Overburden/Bedrock:	Concession Name:	BF
Pump Rate:	Easting NAD83:	
Static Water Level:	Northing NAD83:	
Flowing (Y/N):	Zone:	
Flow Rate:	UTM Reliability:	
Clear/Cloudy:		

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600613.pdf

Well Completed Date:	1960/06/24
Year Completed:	1960
Depth (m):	16.764
Latitude:	43.03497145881
Longitude:	-79.124588452331
Path:	660\6600613.pdf

Bore Hole ID:	10460347	Elevation:	177.428237
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:	0	East83:	652776.90
Code OB Desc:	Overburden	North83:	4766405.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	24-Jun-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source: Improvement Location Method: Source Revision Comment:			

1

Supplier Comment:

Color: General Color:	7 RED
Mat1:	05
Matt. Most Common Material:	CLAY
Mat2:	OLAT
Mat2. Mat2 Desc:	
Mat2 Desc. Mat3:	
Mat3 Desc:	
	4.0
Formation Top Depth:	1.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft
Formation ID:	932589380
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth	ft
UOM:	
Formation ID:	932589383
	932369363 4
Layer: Color:	3
General Color:	BLUE
Mat1:	05
Matt. Most Common Material:	CLAY
Mat2:	11
Mat2. Mat2 Desc:	GRAVEL
Mat2 Desc. Mat3:	13
Mat3. Mat3 Desc:	BOULDERS
Formation Top Depth:	39.0
Formation End Depth:	50.0
Formation End Depth	ft
UOM:	it.
Formation ID:	932589382
Layer:	3
Color:	2

General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	39.0
Formation End Depth UOM:	ft
Formation ID:	932589384
Layer:	5
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	55.0
Formation End Depth UOM:	ft
00M.	
Mathed Construction ID:	000000010
Method Construction ID:	966600613
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method	
Construction:	
Pipe ID:	11008917
Casing No:	1
Comment:	
Alt Name:	
Casing ID:	930747636
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	

5

inch

ft

Casing Diameter UOM: Casing Depth UOM:

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DE
16	ENE	0.17	174.54	183.32	WWIS
Well ID:	7231	244	Data Entry Status:		
Construction Date			Data Src:		
Primary Water Us	e: Moni	toring	Date Received:	11/10/2014	
Sec. Water Use:			Selected Flag:	True	
Final Well Status:	Obse	ervation Wells	Abandonment Rec:		
Water Type:			Contractor:	7238	
Casing Material:			Form Version:	7	
Audit No:	Z193	941	Owner:		
Tag:	A169	956	Street Name:	MONTROSE RD	
Construction Meth	nod:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (WILLOUGHBY)	
Elevation Reliabili	ty:		Site Info:	()	
Depth to Bedrock:	:		Lot:		
Well Depth:			Concession:		
Overburden/Bedro	ock:		Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Leve	l:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					
PDF URL (Map):	https	://d2khazk8e83rdv.cloudf	ront.net/moe_mapping/downlo	oads/2Water/Wells_pdfs/723\7231	244.pdf
Well Completed D	Date: 2014	/10/03			
Year Completed:	2014				
Depth (m):		545016			
Latitude:		13721471185			
Longitude:		227860069005			
Path:	723\7	7231244.pdf			
Bore Hole ID:	1005	209905	Elevation:	176.760848	
DP2BR:	1000	200000	Elevrc:	110.1000-0	
Spatial Status:			Zone:	17	
Code OB:			East83:	652902.00	
Code OB. Code OB Desc:			North83:	4767380.00	
Open Hole:			Org CS:	UTM83	
Cluster Kind:			UTMRC:	4	
Date Completed:	02 0	ct-2014 00:00:00	UTMRC.	4 margin of error : 30 m - 1	00 m
	03-0	GI-2014 00.00.00	UTWING DESC.	margin of enor . 30 m - 1	00 11

Remarks:	Location Meth
Elevrc Desc:	
Location Source Date:	
Improvement Location Source: Improvement Location Method:	
Source Revision	

Formation ID: 1005283679 4 Layer: 2 Color: General Color: GREY Mat1: 05 Most Common Material: CLAY Mat2: 06 Mat2 Desc: SILT Mat3: 06 Mat3 Desc: SILT Formation Top Depth: 10.0 Formation End Depth: 30.0 Formation End Depth ft UOM:

Comment:

Supplier Comment:

Formation ID:	1005283678
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	4.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Formation ID:	1005283684
Layer:	9
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE

hod:

wwr

Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	15 LIMESTONE 88.0 94.66699981689453 ft
Formation ID:	1005283677
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2 Desc:	11
Mat3:	GRAVEL
Mat3 Desc:	11
Formation Top Depth:	GRAVEL
Formation End Depth:	1.0
Formation End Depth	4.0
UOM:	ft
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth Formation End Depth UOM:	1005283680 5 7 RED 05 CLAY 06 SILT 06 SILT 30.0 52.0 ft
Formation ID:	1005283676
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	06

Mat2:

Most Common Material:

SILT

05

Mat2 Desc:	CLAY
Mat3:	02
Mat3 Desc:	TOPSOIL
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Formation ID:	1005283682
Layer:	7
Color:	7
General Color:	RED
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	57.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Formation ID:	1005283683
Layer:	8
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	06
Mat3 Desc:	SILT
Formation Top Depth:	75.0
Formation End Depth:	88.0
Formation End Depth UOM:	ft

Formation ID:	1005283681
Layer:	6
Color:	7
General Color:	RED
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY

Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	05 CLAY 52.0 57.0 ft
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1005283692 1 0 88 ft
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	1005283691 6 Boring
Pipe ID: Casing No: Comment: Alt Name:	1005283675 0
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:	1005283689 1 10 90 5 ft inch 2.5
Water ID: Layer: Kind Code: Kind:	1005283687
Water Found Depth: Water Found Depth UOM:	ft

Hole ID:

1005283685

Diameter:	8.0
Depth From:	0.0
Depth To:	8.666999816894531
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole ID:	1005283686
Diameter:	4.0
Depth From:	8.0
Depth To:	94.66699981689453
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
17	ESE	0.21	211.07	175.83	WWIS
Well ID:	7200	894	Data Entry Status:		
Construction Date:			Data Src:		
Primary Water Use	e: Moni	toring	Date Received:	4/30/2013	
Sec. Water Use:			Selected Flag:	True	
Final Well Status:	Test	Hole	Abandonment Rec:		
Water Type:			Contractor:	7464	
Casing Material:			Form Version:	7	
Audit No:	Z157	'984	Owner:		
Tag:	A143	3216	Street Name:	MONTROSE RD & KYONS	
Construction Metho	od:		County:	CREEK RD NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY	
Elevation Reliability	y:		Site Info:	(CROWLAND)	
Depth to Bedrock:			Lot:		
Well Depth:			Concession:		
Overburden/Bedro	ck:		Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Level:			Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

Well Completed Date:	2013/02/26	
Year Completed:	2013	
Depth (m):	6.1	
Latitude:	43.0344799443071	
Longitude:	-79.1237183909028	

erisinfo.com Environmental Risk Information Services

Path:

Comment:

Supplier Comment:

Bore Hole ID: DP2BR:	1004278469	Elevation: Elevrc:	177.237548
Spatial Status:		Zone:	17
Code OB:		East83:	652849.00
Code OB Desc:		North83:	4766352.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	26-Feb-2013 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source: Improvement Location Method: Source Revision			

Formation ID:	1004847196
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.440000057220459
Formation End Depth:	6.099999904632568
Formation End Depth UOM:	m

Formation ID:	1004847195
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	84
Mat3 Desc:	SILTY
Formation Top Depth:	0.0

Formation End Depth: Formation End Depth UOM:	2.440000057220459 m	
Plug ID:	1004847203	
Layer:	1	
Plug From:	0	
Plug To:	2.7400000953674	
Plug Depth UOM:	m	
Method Construction ID:	1004847202	
Method Construction	9	
Code: Method Construction:	Driving	
Other Method	Driving	
Construction:		
Pipe ID:	1004847194	
Casing No:	0	
Comment:	Ŭ	
Alt Name:		
Casing ID:	1004847199	
Casing ID: Layer:	1004847199 1	
Layer:	1	
Layer: Material:	1 5	
Layer: Material: Open Hole or Material:	1 5 PLASTIC	
Layer: Material: Open Hole or Material: Depth From:	1 5 PLASTIC 0	
Layer: Material: Open Hole or Material: Depth From: Depth To:	1 5 PLASTIC 0 3.04999995231628	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	1 5 PLASTIC 0 3.04999995231628 5	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	1 5 PLASTIC 0 3.04999995231628 5 cm m	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer: Slot:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1 1	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer: Slot: Screen Top Depth:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1 10 3.04999995231628	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer: Slot:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1 10 3.04999995231628 6.09999990463257	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1 10 3.04999995231628	
Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM: Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth:	1 5 PLASTIC 0 3.04999995231628 5 cm m 1004847200 1 10 3.04999995231628 6.09999990463257 5	

Water ID:

Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM: m

1004847197
12.5
0.0
6.099999904632568
m
cm

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
19	ESE	0.23	229.43	175.83	WWIS
Well ID:	72656	625	Data Entry Status:	Yes	
Construction Date:			Data Src:		
Primary Water Use	e:		Date Received:	6/24/2016	
Sec. Water Use:			Selected Flag:	True	
Final Well Status:			Abandonment Rec:		
Water Type:			Contractor:	7464	
Casing Material:			Form Version:	8	
Audit No:	C317	86	Owner:		
Tag:	A1920	016	Street Name:		
Construction Meth	od:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reliabilit	y:		Site Info:		
Depth to Bedrock:			Lot:		
Well Depth:			Concession:		
Overburden/Bedro	ck:		Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Level	:		Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

Well Completed Date:	2016/03/02
Year Completed:	2016
Depth (m):	
Latitude:	43.0343159285812
Longitude:	-79.1236006388104

Path:

Bore Hole ID: DP2BR:	1006078360	Elevation: Elevrc:	177.318710
Spatial Status:		Zone:	17
Code OB:		East83:	652859.00
Code OB Desc:		North83:	4766334.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	02-Mar-2016 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:			

Мар Кеу	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
20	ENE	0.23	229.96	185.38	WWIS
Well ID:	7305	848	Data Entry Status:		
Construction Date:			Data Src:		
Primary Water Use	: Test	Hole	Date Received:	2/14/2018	
Sec. Water Use:	Moni	toring	Selected Flag:	True	
Final Well Status:	Aban	doned-Other	Abandonment Rec:	Yes	
Water Type:			Contractor:	7295	
Casing Material:			Form Version:	7	
Audit No:	Z272	946	Owner:		
Tag:	A192	016	Street Name:	MONROSE RD	
Construction Metho	od:		County:	NIAGARA	
Elevation (m):			Municipality:	NIAGARA FALLS CITY (CROWLAND)	
Elevation Reliability	/:		Site Info:	(,	
Depth to Bedrock:			Lot:		
Well Depth:			Concession:		
Overburden/Bedro	ck:		Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Level:			Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7305848.pdf

Wells and Additional Sources Detail Report

Well Completed Date: Year Completed:	2017/12/21 2017		
Depth (m):	2017		
Latitude:	43.044402783071		
Longitude:	-79.1236982831687		
Path:	730\7305848.pdf		
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:	1006988604	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 652826.00 4767454.00 UTM83 4
Date Completed:	21-Dec-2017 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	cnrev
Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:			
Formation ID:	1007154281		
Layer:			
Color:			
General Color:			
Mat1:			
Most Common Material:			
Mat2:			
Mat2 Desc:			
Mat3:			
Mat3 Desc:			
Formation Top Depth:			
Formation End Depth: Formation End Depth UOM:	ft		
Plug ID:	1007154289		
Layer:	1		
Plug From:			
Plug To:			
Plug Depth UOM:	ft		

Wells and Additional Sources Detail Report

Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	1007154288 6 Boring
Pipe ID: Casing No: Comment: Alt Name:	1007154280 0
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:	1007154285 ft inch
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:	1007154283 ft
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1007154282 ft inch

Radon Information

Detailed radon information for the project property is provided below.

Radon Zone Information

ID:	144850	Radon Rank:	HIGH	
Health Canada Radon Information				
Health Region: Health Region Name:	3546 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.

Detailed ANSI information is provided below.

No records found for the project property or surrounding properties.

Federal Sources

Bedrock Geology of Canada	BEDROCK GEOLOGY
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.	
Health Canada Radon Information	RADON
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/m3, 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.	
National Energy Board Wells	NEBP
The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.	
Soil Landscapes of Canada (SLC)	SLC
Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.	
Surficial Geology of Canada	SURFICIAL GEOLOGY
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.	
<u>Toporama</u>	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).	
Provincial Sources	
Area of Natural and Scientific Interest	ANSI
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.	
Bedrock Geology of Ontario	BEDROCK GEOLOGY
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.	
Ontario Detailed Soil Survey (DSS3)	SOIL SURVEY
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	
Ontario Oil and Gas Wells	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.	

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	SURFICIAL GEOLOGY
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.	
Topographic Map of Ontario	TOPOGRAPHIC MAP
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.	
Water Well Information System	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.	
Wetlands of Ontario	WETLAND
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).	
Private Sources	
Oil and Gas Wells	OGWE
The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.	
Radon Zone Information	RADON
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.

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Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

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APPENDIX IV GOVERNMENT AND REGULATORY INFORMATION Ministry of the Environment, Conservation and Parks

Access and Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement, de la Protection de la nature et des Parcs

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



12^e étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél. : (416) 314-4075 Téléc.: (416) 314-4285

September 14, 2021

Samantha Beatty Terrapex Environmental Ltd. 90 Scardale Road Toronto, ON M3B 2R7

Dear Samantha Beatty:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2021-05648, Your Reference CT3243.00

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search will be conducted on the following: 8547 Grassy Brook Road, Niagara Falls. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

Due to the COVID-19 outbreak, requesters may experience some delays with FOI requests at this time.

This is to advise you, we've gone digital! Requests submitted by fax will no longer be accepted starting August 31, 2021. If you submitted requests by fax before August 31, 2021, we'll process it. Please don't re-submit it using the online form or you might get charged twice. The online form can be found on the central forms repository at the following link

https://www.sus.gov.on.ca/lc/content/mgcs/profiles/default.html?contentRoot=reposito ry:///Applications/012-2146/1.0/Assets&template=012-

2146E.xdp&submitUrl=https://localhost:12443/rest/services/012-

2146/Processes/SubmitForm&lang=E&submitServiceProxy=https://www.sus.gov.on.c a/sub-proxy/all.

If you have any questions regarding this matter, please contact Sharon Menzies at Sharon.Menzies@ontario.ca.

Yours truly,

Noel Kent Manager, Access and Privacy

Card **** Operator: 999 09-14-202: Auth Inv. # 'race # 9585 ota Type # -== ST. CLAIR AVENU MAV1M2 04586 210564 TORCNTO SI GH2016454151 APPROVED-THANK YOU 20164541 00100481

Roy Yu From: Public Information Services <publicinformationservices@tssa.org> Sent: August 12, 2021 1:50 PM To: Samantha Beatty Subject: RE: Information Request for Niagara Falls, ON

Caution: This email originated from outside of the Terrapex Office365 Mail System. Do not click on a link or attachment unless you are absolutely sure that it is safe. Be extra vigilant with any internal emails that have this banner. Please contact Sysoft support if you have doubts.

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

RECORD FOUND

Hello Samantha,

Thank you for your request for confirmation of public information.

• We confirm that there are records in our database of fuel storage tanks at the subject addresses.

INSTANCE NUMBER	ADDRESS			POSTAL CODE	STATUS 🔽
10182654	9127 MONTROSE RD PO BOX 101	0 NIAGARA FAL	LS ON	L2E 7J9	ACTIVE
11485849	9127 MONTROSE RD PO BOX 101	0 NIAGARA FAL	LS ON	L2E 7J9	ACTIVE
11485869	9127 MONTROSE RD PO BOX 101	0 NIAGARA FAL	LS ON	L2E 7J9	ACTIVE

For a further search in our archives please complete our release of public information form found at <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid =392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

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.

Kind regards,

Mariah



Public Information Agent

 Facilities and Business Services

 345 Carlingview Drive

 Toronto, Ontario M9W 6N9

 Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org

 www.tssa.org

From: Samantha Beatty

<s.beatty@terrapex.com> Sent: August 12, 2021 10:49 AM To: Public Information Services <publicinformationservices@tssa.org> Subject: Information Request for Niagara Falls, ON **[CAUTION]:** This email originated outside the organisation. Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good morning,

Terrapex is conducting a Phase I ESA in Niagara Falls. We would like to inquire if TSSA has any records pertaining to fuel tanks or infrastructure at the following properties in Niagara Falls, Ontario:

8218, 8228, 8264, and 8547 Grassy Brook Road

9127, 9304, 9514, 9515, and 10215 Montrose Road

8074, 8107, 8182, 8243, 8365, 8598 and 8870 Biggar Road

9733 and 10553 Crowland Avenue

7473 Reixinger Road

Thank you, Samantha

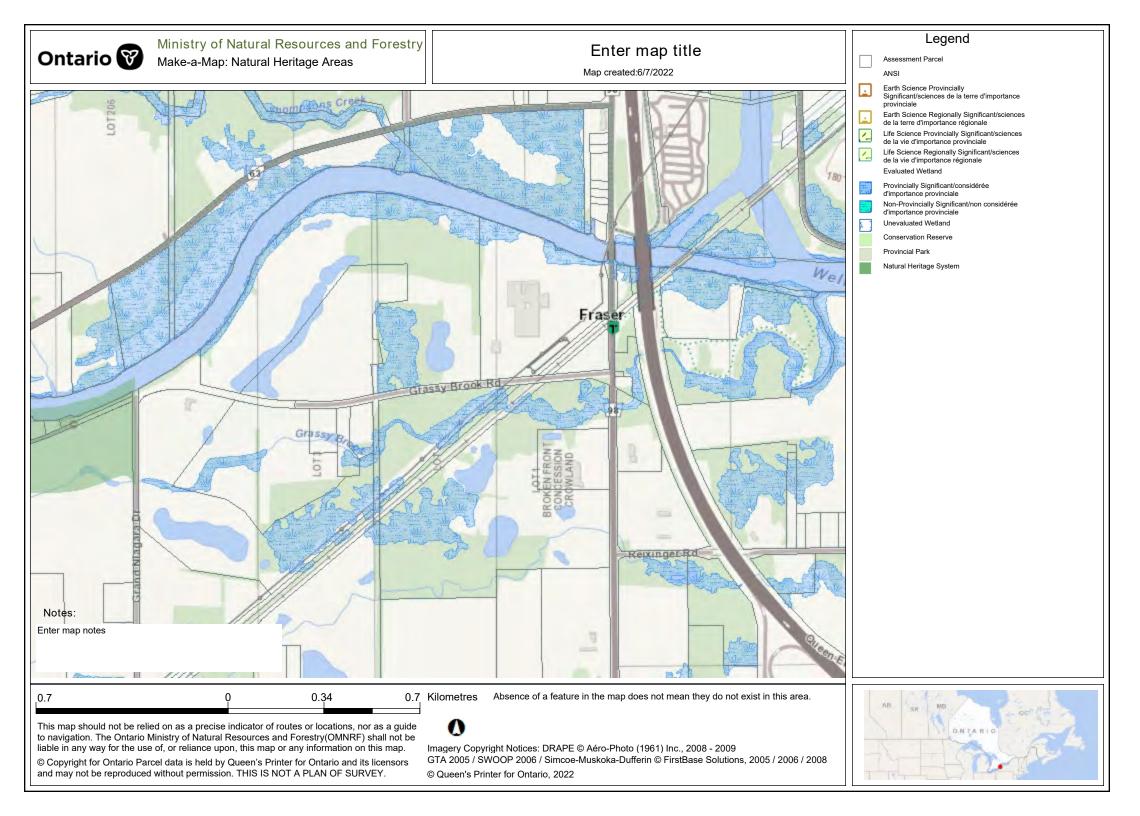
Samantha Beatty, BSc, EPt Environmental Scientist



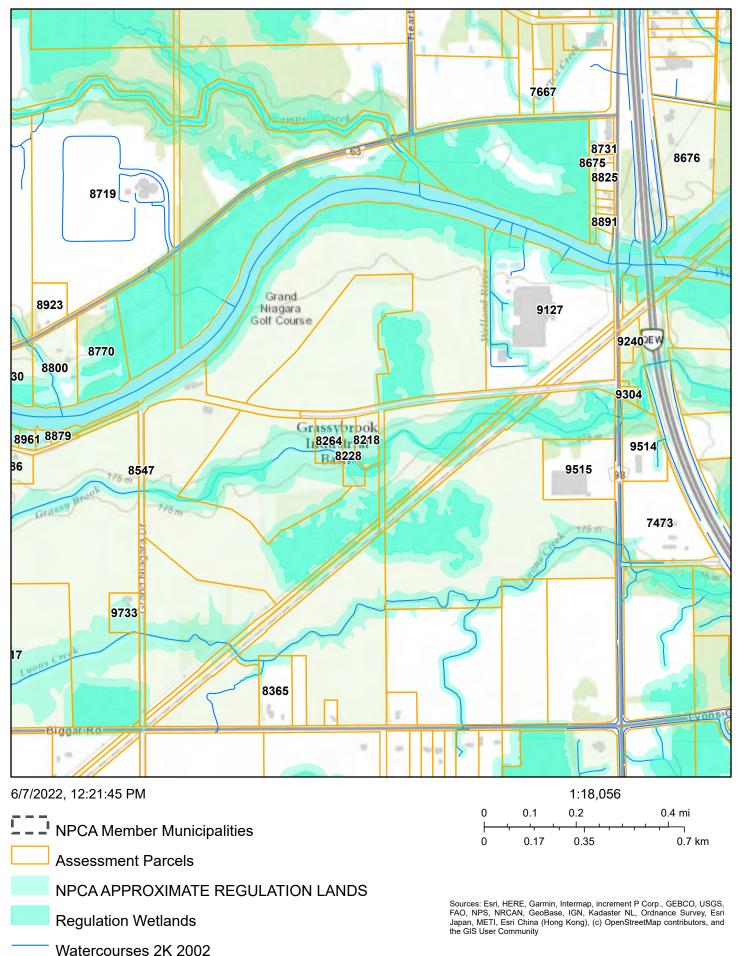
Office: 416 245 0011 ext 260 Mobile:416 797 8924 Email: s.beatty@terrapex.com 90 Scarsdale Road Toronto Ontario M3B 2R7 Canada

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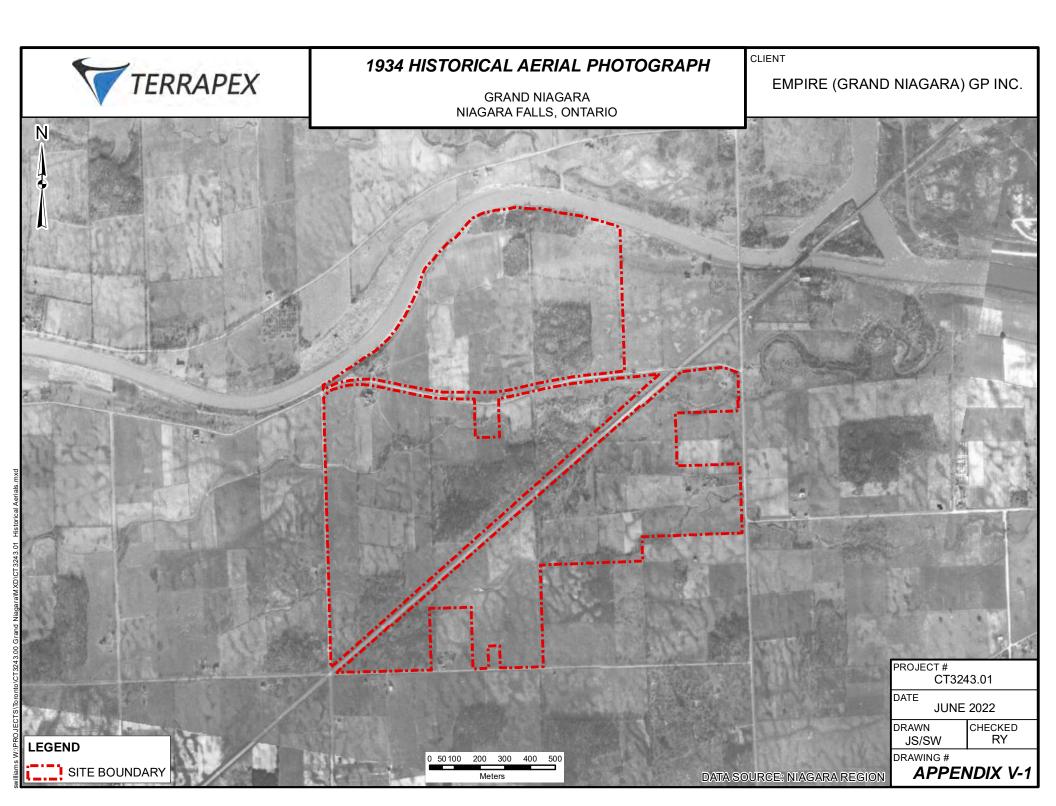


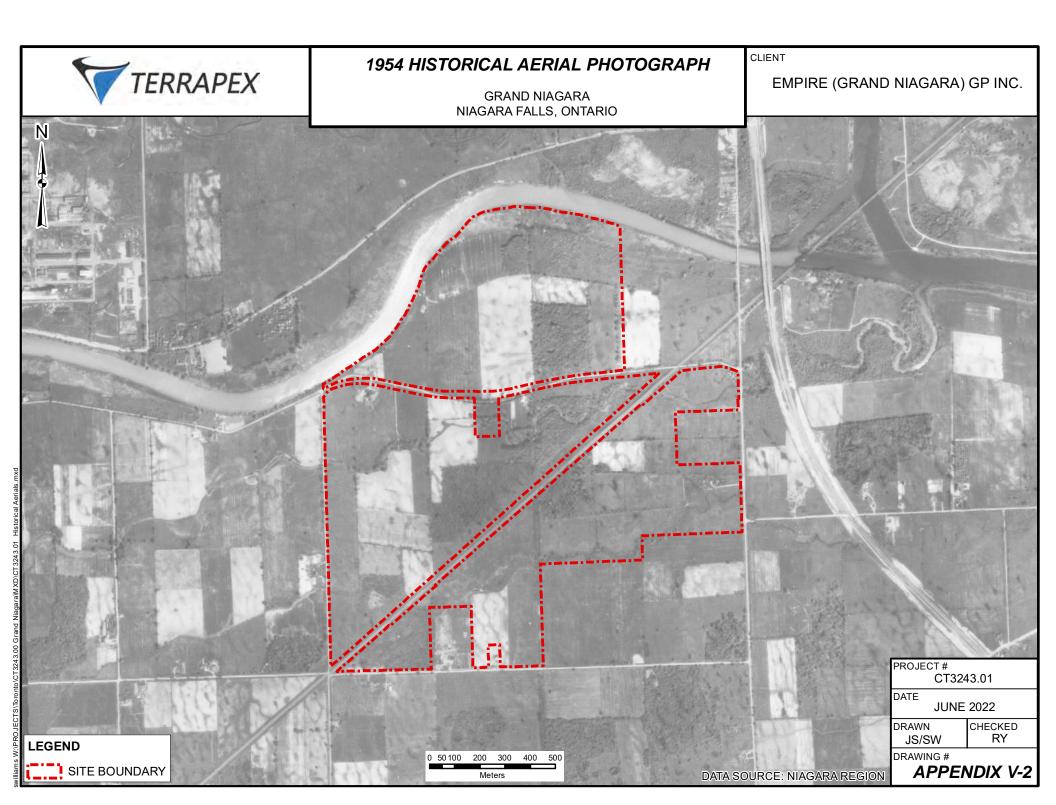
NPCA regulated lands

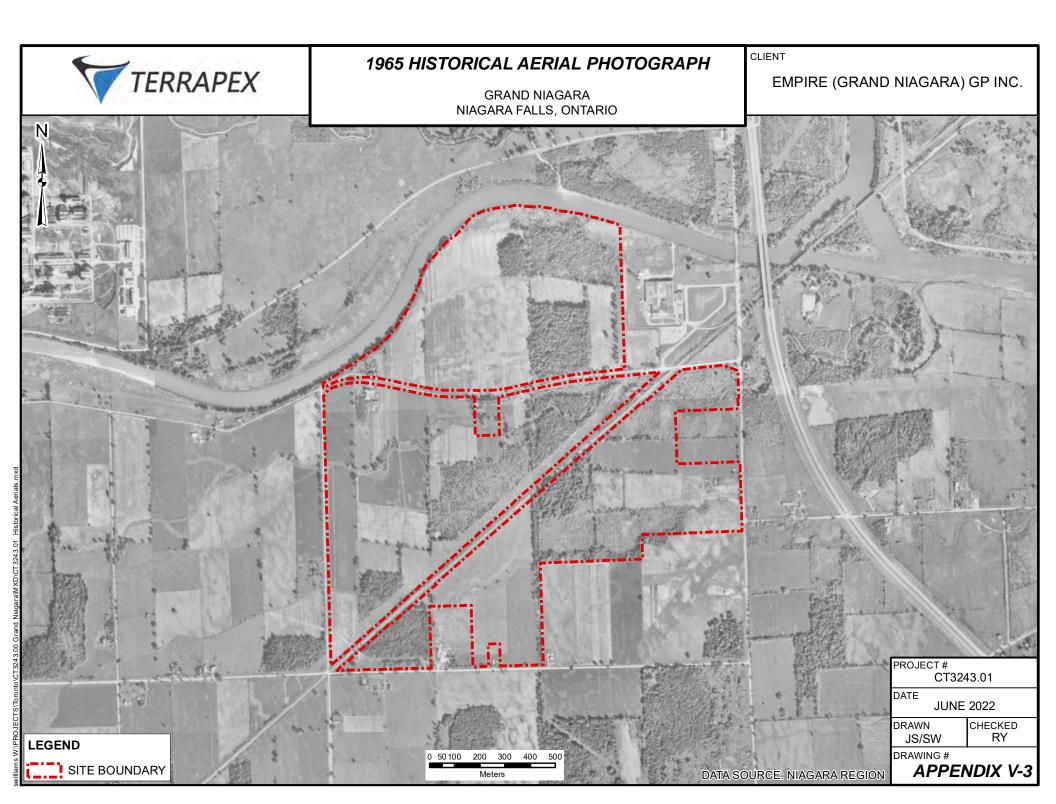


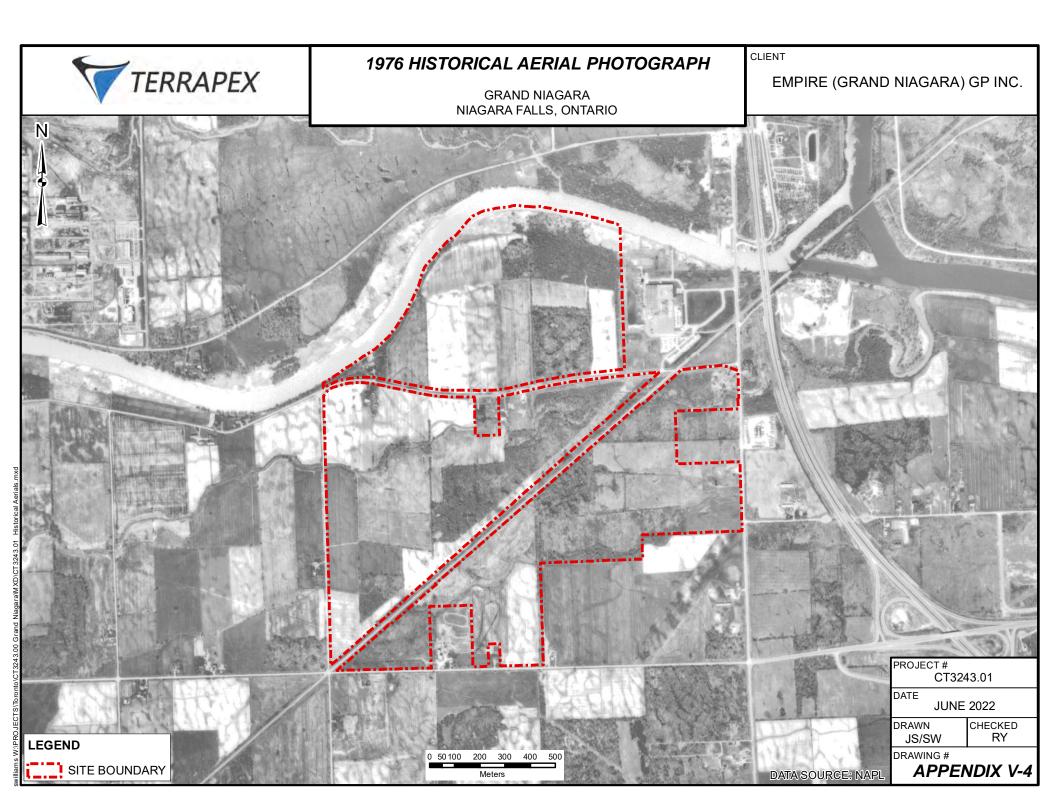
City of Niagara Falls, City of Welland, Niagara Region, Regional Municipality of Niagara, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, METI/

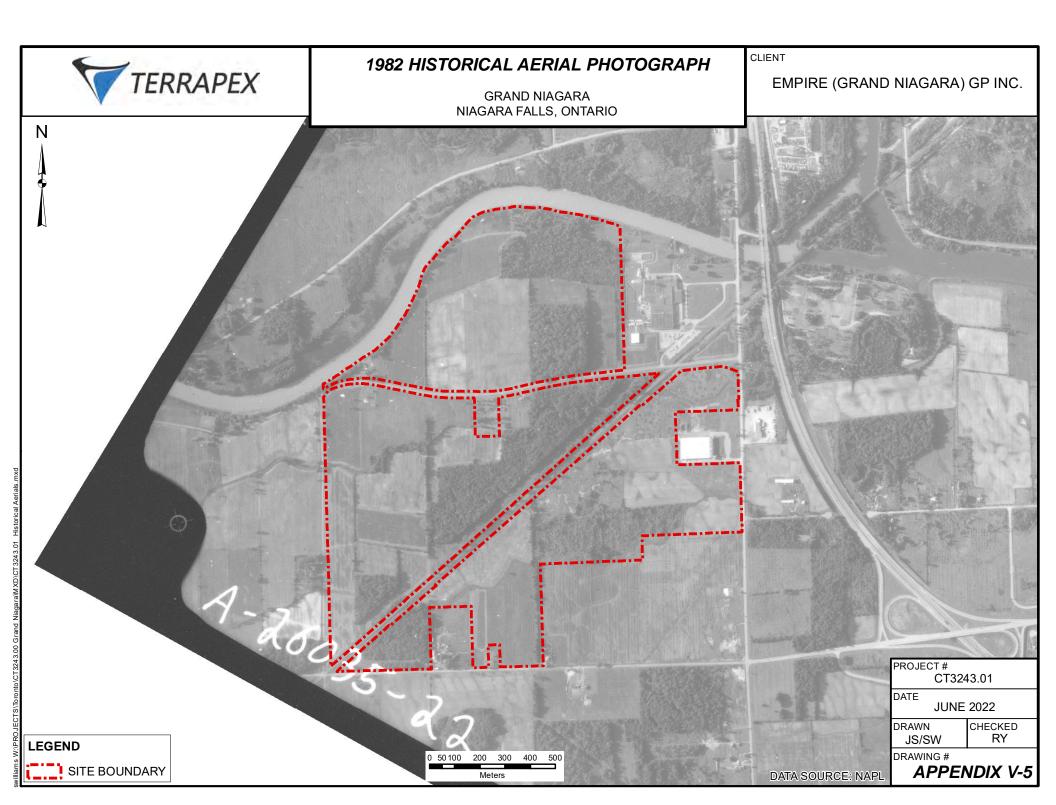
APPENDIX V AERIAL POTOGRAPHS AND SATELLITE IMAGES

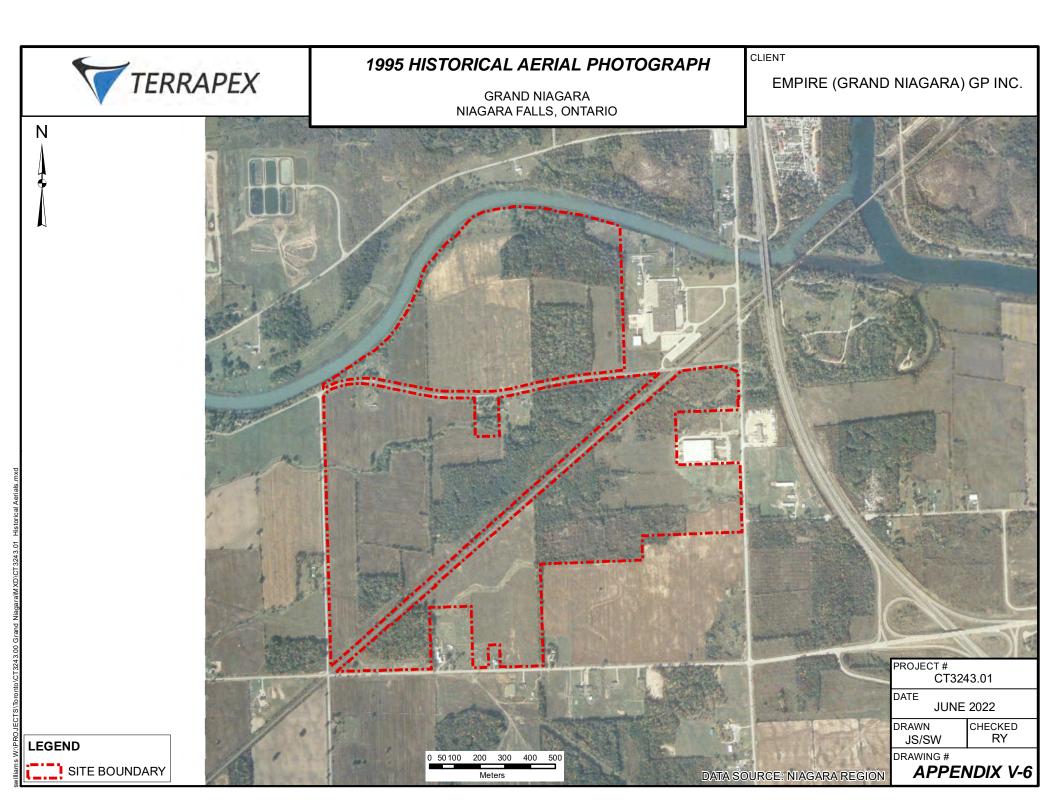


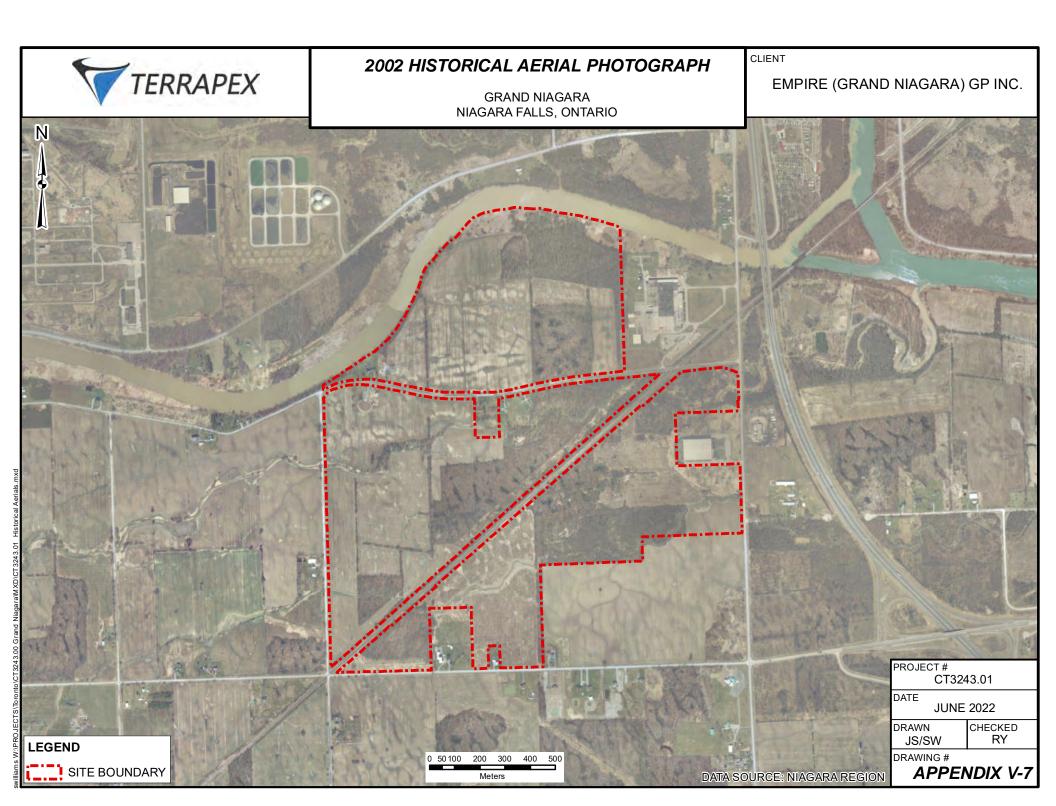


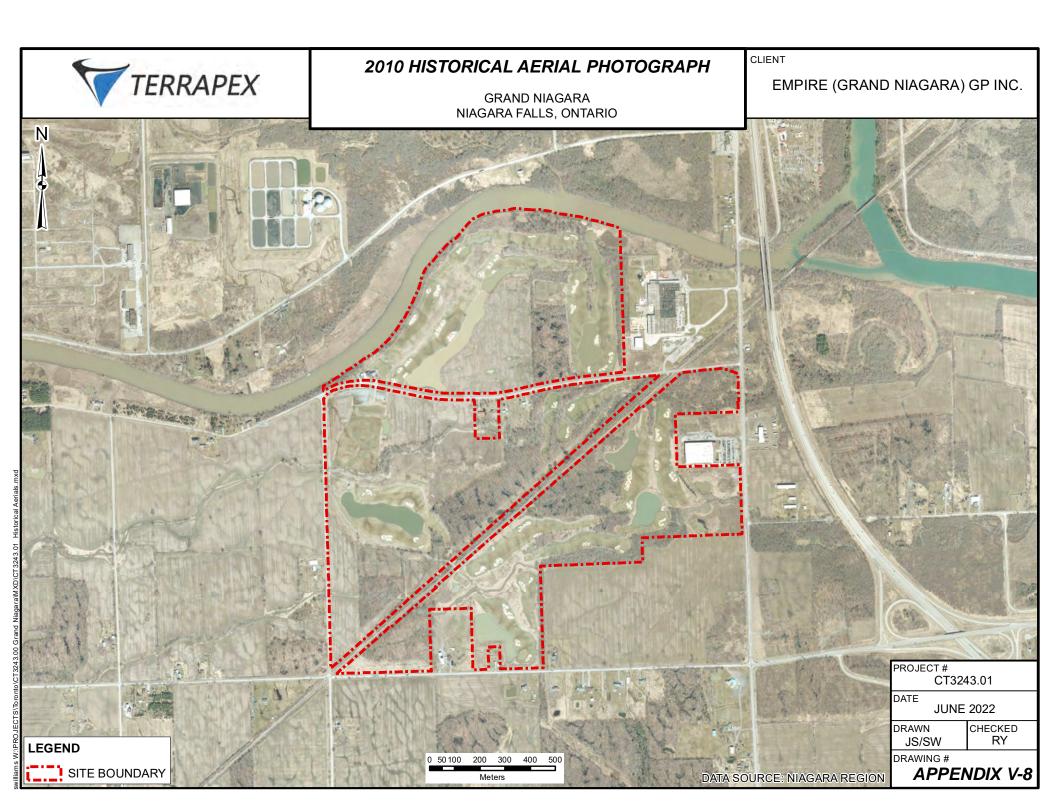


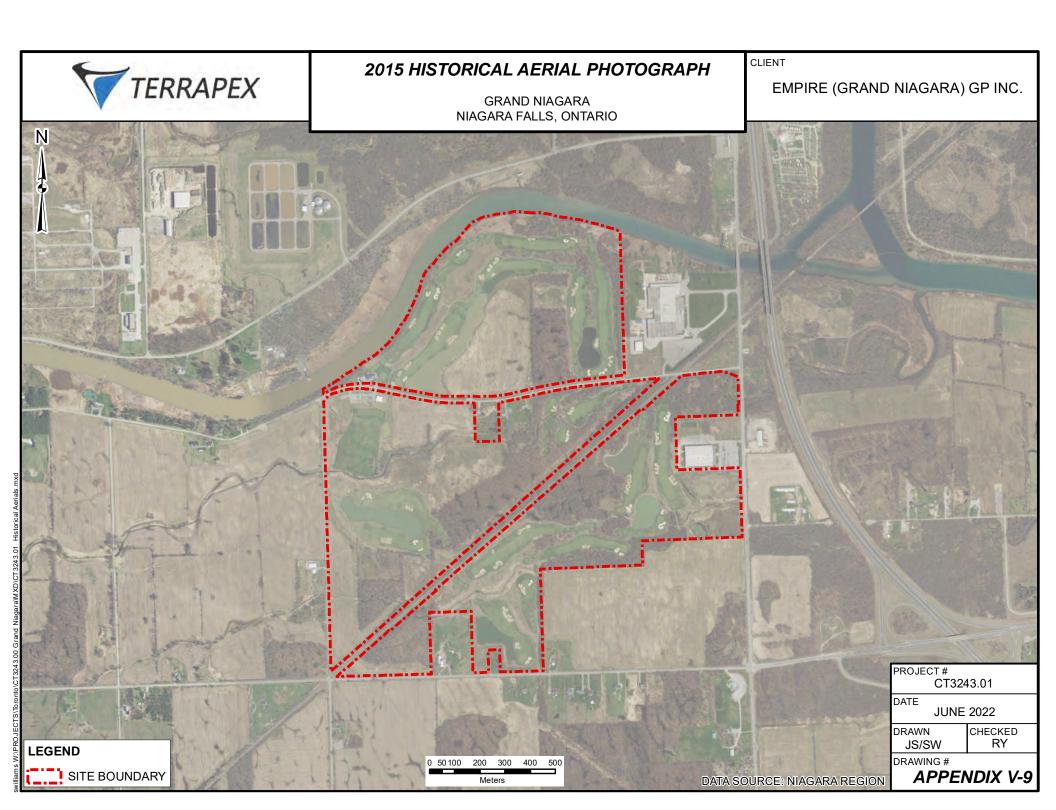












APPENDIX VI SITE PHOTOGRAPHS

TERRAPEX	PHOTOGRAPHIC LOG Page 1		Page 1 of 7
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01
Photo No: 1			
Date: July 21, 2021			
Viewing Direction: South			
Description: View of the clubhouse on the western portion of the Stie at 8547 Grassy Road.			



TERRAPEX	PHOTOGRAPHIC LOG Page 2 of		
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01
Photo No: 3			
Date: July 21, 2021 Viewing Direction: North			
Description: View of the interior of the restaurant on the western portion of the Stie at 8547 Grassy Road.			

Date: July 21, 2021

Viewing Direction: North

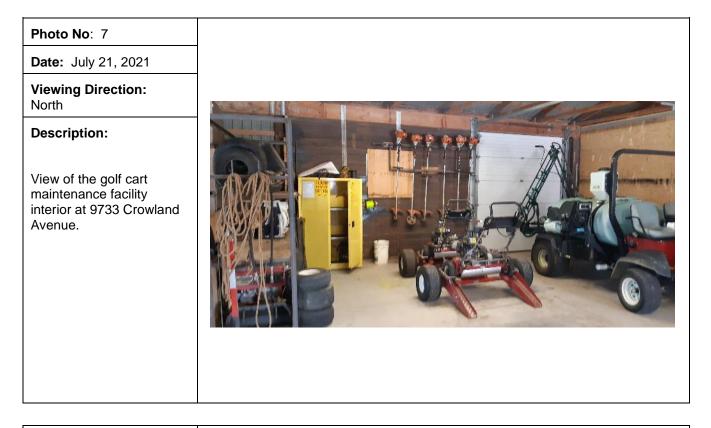
Description:

View of the interior of the clubhouse on the western portion of the Stie at 8547 Grassy Road.



TERRAPEX		PHOTOGRAPHIC LOG	Page 3 of 7
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01
Photo No: 5			
Date: July 21, 2021			
Viewing Direction: West			
Description: View of the kitchen of the restaurant on the western portion of the Stie at 8547 Grassy Road.			
Photo No: 6			
Date: July 21, 2021			
Viewing Direction: northwest			
Description: View of the off-Site Grand Niagara Golf Club's golf cart maintenance facility located west of the Site at 9733 Crowland Avenue.			

TERRAPEX	PHOTOGRAPHIC LOG		Page 4 of 7
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01



Date: July 21, 2021

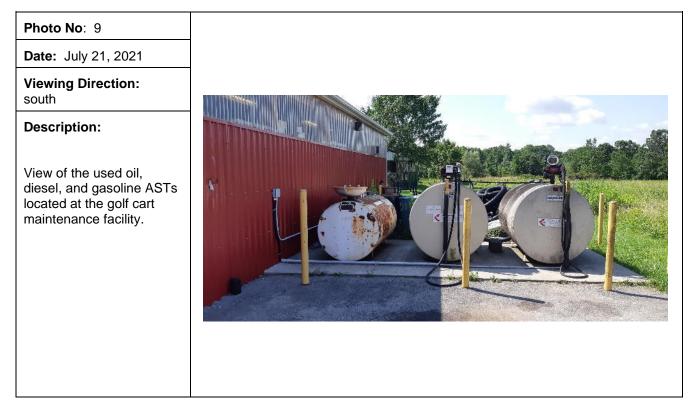
Viewing Direction: North

Description:

View of the fire cabinet with fuel canisters storage at the golf cart maintenance facility. Good housekeeping was observed.



TERRAPEX	PHOTOGRAPHIC LOG		Page 5 of 7
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01



Date: July 21, 2021

Viewing Direction: East

Description:

View of the oil drums and spill absorbent material stored in the golf cart maintenance facility.



TERRAPEX	PHOTOGRAPHIC LOG Page 6 of 7		
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01
Photo No: 11			
Date: July 21, 2021			
Viewing Direction: north			
Description: View of the fertilizer storage at the golf cart maintenance facility.			

Date: July 21, 2021

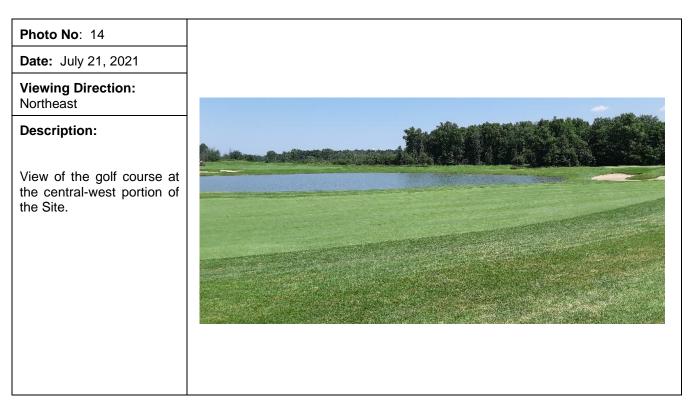
Viewing Direction: North

Description:

View of the fertilizer storage at the golf cart maintenance facility.



TERRAPEX	PHOTOGRAPHIC LOG Page 7 of 7		
Client : Empire (Grand Niagara) GP Inc.	Site Location:	Grand Niagara, Niagara Falls, Ontario	Project No: CT3243.01
Photo No: 13			
Date: July 21, 2021			
Viewing Direction: East			+
Description: View of the above-ground hoist located in the golf cart maintenance facility.			



APPENDIX VII QUALIFICATIONS OF ASSESSORS



2001 to 2006

2000

Position:	Senior Excess Soil Expert / Senior Project Manager, Toronto Office		
Qualifications:	B.Eng. Environmental Engineering B.Sc. Advanced Major in Chemistry		
Experience:	Terrapex Environmental Ltd. WSP Canada Group Ltd. MMM Group Ltd. CH2M Hill Canada Ltd.	2020 to present 2016 to 2019 2010 to 2016 2006 to 2010	

Mr. Roach is a Senior Project Manager with more than 20 years of experience providing environmental consulting services to a broad range of clients and unique sites encompassing a wide variety of contaminants and land uses across Canada. Over his career, he has provided technical expertise in site assessments and intrusive investigations, excess soil management, vapour intrusion assessments, site remediation, risk assessment and risk management, peer reviews, and the filing of Records of Site Condition (RSCs).

As a Senior Project Manager, Chris leads complex projects involving multi-discipline engineering services and multiple stakeholders. He provides strategic advice to clients involved in the acquisition, divestiture or development of real estate and brownfield sites, and develops and implements sustainable, cost-effective remediation and risk-based solutions for the management of contamination.

Mr. Roach is a member of the Canadian Brownfields Network (CBN) Technical Advisory Working Group on O. Reg. 406/19 (*On-Site and Excess Soil Management*) and is a designated Subject Matter Expert at Terrapex in the assessment and management of Excess Soil. Mr. Roach routinely provides technical guidance to Terrapex staff in designing, implementing, and evaluating the findings of excess soil characterization investigations to identify strategic on-site beneficial reuse options or relocation of the excess soil to appropriate interim or final disposal and reuse sites. As a Subject Matter Expert, Chris is also responsible for delivering excess soil consulting services and educating clients on their regulatory responsibilities under the new regulation.

Mr. Roach has presented numerous seminars internally to Terrapex staff and externally to Terrapex clients to explain the rules of O. Reg. 406/19, the phased coming-into-force, and the implications of the new regulation on their operations and projects.

Representative projects include the following:

SNC-Lavalin Inc.

Acres International Ltd.

City of Toronto: Program Manager for environmental projects assigned for the portfolio of lands maintained by the City of Toronto's Facilities and Real Estate Division. Under this contract, our firm provides environmental services for both due-diligence and regulatory purposes including ESAs; Subsurface Vapour Investigations; Risk Assessments; Environmental Peer Reviews; Remedial Action Plans, specifications, supervision, and contract administration; Records of Site Condition; Certificates of Property Use; Environmental Compliance Approvals for Air, Noise, and Stormwater; Designated Substance Surveys; and, Geotechnical Investigations.

City of Toronto: Project Manager and Senior Technical Advisor for the redevelopment of an archeologically significant site formerly occupied by Ontario's First Parliament Buildings from 1798 and 1813. The land was subsequently used as a coal gasification plant which resulted in extensive soil and groundwater contamination, including both light and dense non-aqueous phase liquid (NAPL) in both the overburden and bedrock aquifers. Phase One and Phase Two ESAs have been completed in accordance with O. Reg. 153/04 and presently through consultation with the City and other stakeholders, a sustainable risk-based strategy is presently being developed through a Master Plan to allow for the adaptive reuse of this brownfield property.

Various clients: Qualified Person and Senior Technical Advisor responsible for developing work plans to assess and characterize, manage and relocate excess soil to appropriate interim sites or final disposal or reuse sites in accordance with the regulatory requirements of O. Reg. 406/19 (*On-Site and Excess Soil Management*).



Position:	Project Manager, Toronto Office		
Courses Completed:	Standard First Aid and CPR Petroleum Oriented Safety Training (POST) Workplace Hazardous Materials Information System (WHMIS) 40-hour OSHA Training Course for Hazardous Waste Operations Joint Health and Safety Committee – Basic Certification and Workplace Specific Hazard Training		
Qualifications:	Certified Engineering Technologist, Ontar Technologist	io Association of Engineering Technicians and	
Experience:	Terrapex Environmental Ltd. Alston Associates Inc.	2011 to present 2010-2011	

Mr. Yu is a certified Environmental Technologist, managing, planning and conducting environmental site assessments and remediation programs for commercial, industrial, government and developer clients. Mr. Yu's experience also includes preparing and reviewing technical reports and analytical data in order to evaluate site conditions for environmental impacts and hydrogeological characteristics and providing advice and recommendations.

SELECTED PROJECT EXPERIENCE

Government Client: Manage and conduct Phase One ESAs, Phase Two ESAs, remediation activities, and assist in filing Record of Site Condition in support of development applications. Manage the decommissioning of underground storage tanks and the removal of contaminated soil.

Land Developers: Completion of Phase One and Phase Two ESAs, and remediation in support of a Record of Site Condition, including historical research, report preparation, and site inspection for various sites in Ontario including residential, commercial, industrial, and vacant properties.

Light Industrial Client: Conducted designated substances survey identifying and cataloguing various designated substances as per the Ontario Occupational Health and Safety Act (O. Reg. 490/09), as well as conducting asbestos surveys, analyses of laboratory results and report compilation.

Various Clients: Conducted Phase I Environmental Site Assessment (ESA) site visits and prepared Phase I ESA reports, providing a technical summary of the historical/current land use of the subject site and adjacent properties. Researched and reviewed historical data for Phase I ESAs, which included City Directory searches, aerial photograph interpretation, Fire Insurance Plan review and Freedom of Information requests.

Petroleum Clients: Conduct Phase II Environmental Site Assessments including supervision of drilling, soil logging and sampling, installation of monitoring wells, groundwater quality assessments, hydrogeological assessment of groundwater movement and contaminant plumes and report preparation for petroleum retail outlets for a major petroleum company.

Petroleum Client: Assist in the operation of an in-situ soil and groundwater treatment system to address historical impacts from a retail gasoline service station which extends beneath a roadway and to several adjacent private properties. Conducted monthly monitoring of groundwater and vapours at the site, and monthly sampling of the treatment system air and water discharges. Supervision of decommissioning of underground storage tanks, removal of facilities and removal of contaminated soil. Work program included field screening of soil vapours, confirmatory soil sampling, tracking of excavated volumes, assisting with waste management, and tracking contractor's time.