

**Phase One Environmental Site Assessment
788 March Road
Ottawa, Ontario**

Revision: 0 (Final)

Prepared for:

**10731854 Canada Inc.
47, Clarence Street, Suite 406
Ottawa ON
K1N 9K1**

Prepared by:



Geofirma
Engineering Ltd

1 Raymond St., Suite 200
Ottawa, Ontario K1R 1A2
Tel: (613) 232-2525
Fax: (613) 232-7149

www.geofirma.com

Document ID: 18-206-1_Phase One ESA_788March_R0.docx

July 16, 2018

Title:	Phase One Environmental Site Assessment, 788 March Road, Ottawa, Ontario	
Client:	10731854 Canada Inc.	
Document ID:	18-206-1_Phase One ESA_788March_R0.docx	
Revision Number:	0	Date: July 16, 2018
Prepared by:	Angela Garrison	
Reviewed by:	Sean Sterling	
Approved by:	 Sean Sterling	

EXECUTIVE SUMMARY

Geofirma Engineering Ltd. (Geofirma) was retained by Omnipex Real Estate Inc. (Mr. Ralph Esposito) on behalf of 10731854 Canada Inc. to conduct a Phase One Environmental Site Assessment (ESA) in accordance with current MOECC Reg 153 Phase One ESA requirements on the property addressed as 788 March Road, in Ottawa, Ontario (the site). This work was conducted as part of a requirement from the City of Ottawa in support of a planning application for the site.

The site is a vacant parcel of land. Shirley's Brook is located along the eastern boundary of the site.

Based on historical air photos, one structure was present on the site between 1934 and 1964; two structures were present on the site between 1964 and 1994. All buildings had been demolished by 1994. The site was used as a construction storage area in the 2009 air photo and was once again vacant land by the time of the 2011 air photo.

A Record of Site Condition (RSC#63910) was filed on January 29, 2010 for portions of the site. This RSC was only completed for the portion of the property greater than 30 m from Shirley's Brook. The MOE soil and groundwater standards were updated after this RSC was filed and therefore the historical soil and groundwater concentrations were compared to the current 2011 MOE standards as part of this report. None of the reported soil or groundwater concentrations exceed the currently applicable site standards (2011 MOE Table 2 (potable water condition, for medium/fine soils, residential/parkland/industrial property use)) for the portion of the property greater than 30 m from Shirley's Brook, however exceedances of barium and total chromium were noted compared to 2011 MOE Table 1 (background) standards.

A Phase I ESA and Supplemental Soil Investigation was completed by Geofirma for the City of Ottawa for the entire property in 2010 as part of the City's road widening project in the area. No environmental concerns were noted from the historical review, regulatory inquiries or site inspection, however a series of fill piles (estimated to be greater than 20 years old) were identified within treed areas and adjacent to Shirley's Brook. As previous studies did not investigate the soil quality from these fill piles, shallow soil sampling was completed from a variety of fill pile locations to confirm fill quality. These soil sampling locations were located within 30m of the waterbody and were analysed for PHC, BTEX and metals. Similarly, these historical reported concentrations were compared to the current MOECC standards. Chemistry results from the fill piles showed that there were no exceedances in the fill materials however, minor exceedances of barium was found in two of the native clay soil samples beneath the fill when compared to 2011 MOE Table 8 (soil within 30m of a waterbody in a potable groundwater condition) and MOE Table 1 (background) standards.

A former garage was identified immediately northwest of the site, across March Road historically. Soil and groundwater sampling conducted as part of the RSC report did not identify any impact and therefore this activity was not considered to pose a concern to the site.

Based on the results of this Phase One ESA, no potentially contaminating activities, areas of potential environmental concerns were identified and therefore, no further site characterization is recommended at this time.

TABLE OF CONTENTS

1	INTRODUCTION	1
2	SCOPE OF INVESTIGATION	2
	2.1 Purpose and Objectives	2
	2.2 Scope of Work, Methodology and Limitations	2
	2.3 Occupant Description	3
	2.4 Adjacent Properties	3
3	RECORDS REVIEW	4
	3.1 General	4
	3.1.1 Phase One Study Area Determination	4
	3.1.2 First Development Use Determination.....	4
	3.1.3 Fire Insurance Plans	4
	3.1.4 Chain of Title.....	4
	3.1.5 Environmental Reports.....	6
	3.1.6 Site Plans	6
	3.1.7 City of Ottawa Zoning	7
	3.1.8 Environmental Source Information, Database Review	7
	3.1.8.1 Historical Land Use Inventory	7
	3.1.8.2 ERIS Report	7
	3.2 Physical Setting Sources	10
	3.2.1 Aerial Photographs	10
	3.2.2 Fire Insurance Plans	12
	3.2.3 City Directories	12
	3.2.4 Databases and Inventories	13
	3.2.4.1 Old Landfill Management Strategy.....	13
	3.2.4.2 Former Industrial Sites and Coal Gasification Plants Inventories	13
	3.2.4.3 Wetlands.....	13
	3.2.4.4 Ontario Ministry of the Environment and Climate Change (MOECC)	13
	3.2.5 Topography, Hydrology and Geology.....	14
	3.2.6 Fill Materials.....	14
	3.2.7 Water Bodies and Areas of Natural Significance.....	14
	3.2.8 Well Records	15
	3.2.9 Site Operating Records.....	15
4	INTERVIEWS	16
5	SITE RECONNAISSANCE	17
	5.1 General Requirements	17
	5.2 Specific Observations at Phase One ESA Property	17
	5.2.1 Utilities	17
	5.2.2 Heating and Cooling Systems	17
	5.2.3 Drains and Sumps	17
	5.2.4 Unidentified Substances	17
	5.2.5 Odours.....	17
	5.2.6 Staining.....	17

5.2.7	Stressed Vegetation.....	18
5.2.8	Fill Materials.....	18
5.2.9	Waste Materials	18
5.2.10	Pits and Lagoons	18
5.2.11	Watercourses, Ditches, or Standing Water.....	18
5.2.12	Well Locations and Details.....	18
5.2.13	Hazardous Materials	18
5.2.14	Storage Tanks and Storage Containers	18
6	REVIEW AND EVALUATION OF INFORMATION.....	19
6.1	Current and Past Uses.....	19
6.2	Potentially Contaminating Activities.....	21
6.3	Areas of Potential Environmental Concern.....	21
6.4	Phase One Conceptual Site Model.....	21
7	CONCLUSIONS.....	22
8	CLOSURE.....	23
9	REFERENCES.....	24

LIST OF FIGURES

Figure A.1	Site Location
Figure A.2	Site Layout
Figure A.3	Topographic Map

LIST OF APPENDICES

APPENDIX A	Figures
APPENDIX B	Title Search
APPENDIX C	ERIS Documentation
APPENDIX D	Aerial Photographs
APPENDIX E	Photographs of Site Features
APPENDIX F	Legal Plan of Survey

LIST OF ACRONYMS

APEC - Area of Potential Environmental Concern
BTEX – Benzene, Toluene, Ethylbenzene, Xylenes
CET – Certified Engineering Technologist
CSA – Canadian Standards Association
CSM – Conceptual Site Model
ESA – Environmental Site Assessment
FIP – Fire Insurance Plan
GIS – Geographical Information System
HLUI – Historical Land Use Inventory
MOE – Ontario Ministry of the Environment (information prior to June 24, 2014)
MOECC – Ontario Ministry of the Environment and Climate Change (information after June 24, 2014)
OGS – Ontario Geological Survey
PAH – Polycyclic Aromatic Hydrocarbon
PCA – Potentially Contaminating Activity
PHC – Petroleum Hydrocarbons
QP – Qualified Person
RSC – Record of Site Condition
TSSA – Technical Standards and Safety Authority
VOC – Volatile Organic Compound

1 INTRODUCTION

Geofirma Engineering Ltd. (Geofirma) was retained by Omnipex Real Estate Inc. (Mr. Ralph Esposito) on behalf of 10731854 Canada Inc. to conduct a Phase One Environmental Site Assessment (ESA) on the property addressed as 788 March Road, in Ottawa, Ontario (the site). The legal description for the site is: Part of Lot 10, Concession 4, as in Instrument no N681746, save and except Part, Geographic Township of March, City of Ottawa, PIN 04517-0801. The site is currently owned by 10731854 Canada Inc. The main contact for the site is Ralph Esposito, Jr, Omnipex Real Estate Inc., 586 Church Street, Beaconsfield, QC (resposito@omnipex.ca).

The Phase One ESA work was completed in accordance with the general requirements of Canadian Standards Association (CSA) Standard “Z768-01 – Phase I Environmental Site Assessment” (November 2001) and, more importantly, the specific requirements of the Ontario Ministry of Environment mandatory Phase One Environmental Site Assessment requirements as defined in Part VII and Schedule D of Ontario Regulation 153/04 (as amended by O.Reg. 511/09). The Phase One ESA was completed in accordance with the requirements of O. Reg. 153/04, as part of the planning requirements for the site.

The Phase One Environmental Site Assessment was conducted by Geofirma personnel Angela Garrison, CET and supervised by Sean Sterling, QP_{ESA}, M.Sc., P.Eng., P.Geo.

- Angela Garrison, CET is an Environmental Technologist with Geofirma Engineering Ltd. Ms. Garrison has 20 years of experience in the completion of over 200 Phase I ESAs and numerous Designated Substances Audits for residential, commercial and industrial properties for private and government clients in her time with Geofirma. She graduated from Algonquin College in 1997 and has been employed with Geofirma Engineering Ltd. since graduation. She currently holds a Certified Engineering Technologist (CET) designation with the Ontario Association of Certified Engineering Technicians and Technologists
- Sean Sterling, M.Sc., P.Eng., P.Geo. and Senior Hydrogeologist with Geofirma, is a QP_{ESA} in accordance with O.Reg. 153/04. Mr. Sterling has 23 years of specialized experience and expertise in environmental site assessments. From 1999 to 2002, Mr. Sterling worked as a Research Associate at the University of Waterloo focusing on the development of rock porewater characterization techniques, discrete level and multilevel monitoring systems in fractured bedrock environments and on the prevention of vertical borehole cross-connection in fractured rock systems by using temporary borehole sealing techniques. Since 2002 he has been a consulting hydrogeologist with Geofirma. He is a registered professional engineer and geoscientist in the Province of Ontario.

2 SCOPE OF INVESTIGATION

2.1 Purpose and Objectives

A Phase One ESA involves an assessment of the environmental liability of a property based on a review of reasonably ascertainable information from public records, a site reconnaissance visit and interviews, as appropriate. The purpose of a Phase One ESA is to determine whether conditions exist, based on present or prior land use, tenants or owners, to warrant further exploratory work.

The purpose of this Phase One ESA is to support a planning application to the City of Ottawa (the City).

In accordance with Section 24 of O.Reg.153/04, the Phase One ESA was undertaken to meet the following general objectives:

- 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 Environmental Site Assessment;
- To provide a basis for carrying out any Phase Two Environmental Site Assessment required; and
- To provide adequate preliminary information about environmental conditions in the land or water on, in or under the phase one property for the conduct of a Risk Assessment following completion of a Phase Two Environmental Site Assessment.

2.2 Scope of Work, Methodology and Limitations

In accordance with Section 25 of O.Reg.153/04, the Phase One ESA of the site consisted of the following components:

- Records review completed prior to interviews and site reconnaissance;
- Site reconnaissance completed on July 3, 2018. The site inspection was conducted by Angela Garrison, CET.
- Evaluation of information from records review, interviews and site reconnaissance and completion of a conceptual site model (CSM);
- Preparation of Phase One ESA report; and
- Delivery of Phase One ESA report to the client.

Historical aerial photographs were reviewed at the National Air Photo Library, in Ottawa and on-line from the City of Ottawa, geoOttawa website. Fire Insurance Plans and City Directories were reviewed at the National Archives of Canada. In addition, the Historical Land Use Database information for an area of 250 m surrounding the site was provided by the City, which includes City Directory and Fire Insurance Plan information from 1900 to 2012. Several former Phase I ESA reports have been prepared for the site, as well as a Record of Site Condition (RSC) for a portion of the property, which were also relied upon for historical information pertaining to the site.

A land title search was completed in a previous report and is reiterated in this report along with known updated information.

A database search was performed by EcoLog ERIS, of Toronto, Ontario in June 2018. The type of report completed is referred to as a RSC (Record of Site Condition) Report (Urban). The report is designed to meet the requirements of the amended Regulation 511/09. All Ontario databases (federal, public and private) are searched for a radius of 300 m from the boundaries of the site.

The Phase One Conceptual Site Model is discussed in Section 6.4 of this report.

2.3 Occupant Description

The site is located at 788 March Road, in Ottawa, Ontario and is approximately 1.2 hectares in size. The site is currently vacant. The site consists of a mix of dense vegetation (trees and shrubs) as well as grassed areas. Shirley's Brook is also located on the eastern boundary of the site.

For the purposes of this report, March Road is considered west of the site and Klondike Road is considered north of the site.

The site location plan is shown in Figure A.1, and the site layout map is provided as Figure A.2, in Appendix A.

2.4 Adjacent Properties

Land use in the area surrounding the site is vacant, light commercial and residential. Shirley's Brook is located on the eastern boundary of the site. Land use on the properties immediately adjacent to the site includes:

- North – Klondike Road, light commercial;
- East – Shirley's Brook, small church, residential;
- South – vacant land, residential; and
- West – March Road, light commercial and residential

3 RECORDS REVIEW

3.1 General

Historical land use was determined through a review of Fire Insurance Plans, database searches, aerial photographs, physical setting sources and review of historical reports for the site.

3.1.1 Phase One Study Area Determination

The Phase One ESA property is bordered by Klondike Road to the north, Shirley's Brook to the east, vacant lands to the south and March Road to the west.

The Phase One Study Area includes an area within a circular radius of 250 m of the boundaries of the site. The 250 m radius Study Area includes roadways, residential lands, vacant land and light commercial lands. Review over a larger area is not necessary or justified.

Based on historical land use, as residential, agricultural and vacant land, the site would not be considered an enhanced investigation property in accordance with Section 32 of O.Reg 153/04.

3.1.2 First Development Use Determination

The site Crown ownership prior to 1846 and is assumed to be undeveloped at that time. Several private owners were recorded for the site after 1846 in the title search conducted. Air photos for the site were not available prior to 1934 where one residential/agricultural structure was visible along the western boundary of the site. The exact year the site was developed is unclear but is presumed to be mid to late 1800's.

3.1.3 Fire Insurance Plans

No Fire Insurance Plans (FIPs) are available covering the subject property as FIPs were historically only prepared for select urban centres. Nonetheless, FIPs from 1901, 1912, 1922, and 1956/1963 were reviewed for the site at the National Archives of Canada to confirm that no information exists. As expected, based on the location of the site, outside the City of Ottawa limits during these years, the site was not covered in any of the FIP reviewed.

Fire insurance plans after 1956/1963 are not available for the City of Ottawa.

3.1.4 Chain of Title

A Land Title Search was completed for the Site by Wentzell Titles for a former Phase I ESA, dated July 30, 2010, and is provided in Appendix B. The legal description for the site is:

- "Part of Lot 10, Concession 4, as in instrument no N681746, save and except Part 1, Geographic Township of March, City of Ottawa. PIN 04517-0801"

Owners on the site have included:

Entire Site

- Prior to 1846: Crown
- 1846 to 1854 – John Armstrong
- 1854 to 1905: James Armstrong
- 1905 to 1914: Ann Armstrong
- 1914 to 1940: Estate of George Armstrong
- 1940 to 1948: Eric F. Armstrong

Part of the site

- 1948 to 1960: Harold Armstrong
- 1960 to 1987: Leonard Roy and Sussanna Roy (Part)

Part of the site

- 1948 to 1982: Harold Armstrong
- 1982 to 1983: Allen A. Stewart, Margaret Stewart
- 1983 to 1987: Kanata Red Oak Developments Ltd.

All of the site

- 1987 to 1993: Allen Stewart In Trust
- 1993 to 1997: 1048383 Ontario Inc.
- 1997 to 2001: 1202642 Ontario Inc, Metal Imports Ltd. in trust
- 2001 to 2010: Imperial Oil Limited

The nature of the numbered companies is unknown, however, based on additional historical review, historical land owners are not considered to pose a significant environmental concern to the site. Imperial Oil owned the site but there is no evidence that the site was used or developed by the company.

The City of Ottawa reportedly purchased the property from Imperial Oil in 2010. The current owner of the site, Omnipex Real Estate Inc., acquired the property in 2018.

The boundaries of the site have changed slightly since the 2010 Phase I ESA because of the City of Ottawa road widening project. Portions of the north and west boundaries have been removed for the road widening in these areas. A copy of the current property boundary legal plan is provided in Appendix G.

3.1.5 Environmental Reports

O'Connor Associates Environmental Inc. (O'Connor), 2010. Record of Site Condition (RSC#63910) January 29

O'Connor Associates Environmental Inc. (O'Connor) filed a Record of Site Condition (RSC#63910) on January 29, 2010 on behalf of Imperial Oil Ltd. This RSC was only completed for the portion of the property greater than 30 m from Shirley's Brook. The RSC was obtained through the Ministry of the Environment Brownfields Environmental Site Online Registry, as well as through the MOECC information request discussed in Section 3.6.2. The RSC was based on a Phase One ESA (O'Connor, 2009a) and a subsequent Phase Two ESA (O'Connor, 2009b) for Imperial Oil Ltd., also completed by O'Connor.

Soil and groundwater concentrations reported in these O'Connor studies were compared to the 2004 MOE Table 3 (non-potable) standards as well as Table 1 (background) standards. Soil was sampled and analysed for metals, petroleum hydrocarbons (PHC) and benzene, ethylbenzene, toluene, xylenes (BTEX). Groundwater was sampled and analysed for PHC, BTEX and volatile organic compounds (VOCs). Although no soil or groundwater concentrations were reported to exceed 2004 applicable MOE Table 3 standards (at that time) for the portion of the property greater than 30 m from Shirley's Brook, there were several parameters in these samples that were detected above 2004 MOE Table 1 (background) standards, including barium, zinc, total chromium, benzene, toluene and xylene. The current applicable standards to compare soil and groundwater concentrations to are the 2011 MOE Table 2 standards (full depth generic site conditions standards in a potable water condition, for medium/fine soils, residential/parkland/industrial property use) which also showed no exceedences, however when compared to MOE 2011 Table 1 (background) standards showed exceedences of barium and total chromium.

Intera Engineering Ltd., 2010. Phase I Environmental Site Assessment and Supplemental Soil Investigation, 788 March Road, December

Geofirma (formerly Intera Engineering Ltd.) completed a Phase I ESA and Supplemental Soil Investigation in December 2010 (Intera, 2010) for the City of Ottawa. No environmental concerns were noted from the historical review, regulatory inquiries or site inspection, however a series of fill piles (estimated to be greater than 20 years old) were identified within treed areas and adjacent to Shirley's Brook. As previous studies did not investigate the soil quality from these fill piles, Geofirma completed shallow soil sampling from a variety of fill pile locations to confirm fill quality. Soil samples were analysed for PHC, BTEX and metals. Chemistry results from the fill piles showed that there were no exceedences of applicable MOE Table 8 standards (generic site condition standards for use within 30m of a water body in a potable groundwater condition, residential/parkland/institutional/industrial/commercial/community property use), however minor exceedences of barium compared to current 2011 MOE Table 8 were noted in two native clay soil samples beneath the fill. These values also exceeded the 2011 MOE Table 1 background standards.

3.1.6 Site Plans

No site plans were provided to Geofirma as part of the project.

3.1.7 City of Ottawa Zoning

City of Ottawa geoOttawa website lists the site as a General Mixed-Use Zone (Sec. 187-188).

“The purpose of the GM – General Mixed-Use Zone is to:

- 1. allow residential, commercial and institutional uses, or mixed use development in the **General Urban Area** and in the **Upper Town, Lowertown and Sandy Hill West Character Areas** of the **Central Area** designations of the Official Plan;*
- 2. limit commercial uses to individual occupancies or in groupings in well defined areas such that they do not affect the development of the designated Traditional and Arterial Mainstreets as viable mixed-use areas;*
- 3. permit uses that are often large and serve or draw from broader areas than the surrounding community and which may generate traffic, noise or other impacts provided the anticipated impacts are adequately mitigated or otherwise addressed; and*
- 4. impose development standards that will ensure that the uses are compatible and complement surrounding land uses.”*

3.1.8 Environmental Source Information, Database Review

Information sources such as the City of Ottawa Historical Land Use Inventory and the Environmental Risk Information Services (ERIS) databases were searched as part of the environmental source information and database review process.

3.1.8.1 Historical Land Use Inventory

The City of Ottawa provided information from their Historical Land Use Inventory (HLUI) database for a radius of 250 m from the boundaries of the site for a previous Phase I ESA. The HLUI database search also included landfills within 500 m of the site. The HLUI database was created using FIP, City Directories and additional historical information for the City of Ottawa from 1990 to 2012 to identify and map the locations of any businesses or land uses that pose the potential for contamination to soils or groundwater in the vicinity of the site based on their types of facilities and potential chemicals used on-site.

The HLUI identified two automotive garages located at 1111 Klondike Road, north west of the site in 2001 and 2005.

3.1.8.2 ERIS Report

Environmental source information was compiled by ERIS for the site on June 21, 2018, and included a 300 metre search radius from the boundaries of the site. The distance from the site is provided for each entry and only the entries within 250m of the site are discussed below. The complete report is included in Appendix C.

In all of the databases searched, there were a total of 4 occurrences identified on the Phase One ESA site. Occurrences are provided by site location/address. Some addresses may only contain one

occurrence while others may have numerous different entries.

The following databases, were consulted:

- Abandoned Aggregate Inventory
- Aggregate Inventory
- Abandoned Mine Information System
- Anderson's Waste Disposal Sites
- Automobile Wrecking & Supplies
- **Borehole (5)** - The Borehole database, dated 1875-Jul 2014, identified 5 entries within 250 m of the site. There are no environmental concerns associated with these boreholes.
- **Certificates of Approval (3)** – The CA database, dated 1985-Oct 30, 2011 identified 3 entries within 250m of the site. Each of the entries were for municipal or municipal/private sewage works. There are no environmental concerns associated with these certificates of approval.
- Commercial Fuel Oil Tanks
- Chemical Register
- Compressed Natural Gas Stations
- Inventory of Coal Gasification Plants and Coal Tar Sites
- Compliance and Convictions
- Certificates of Property Use
- Drill Hole Database
- Dry Cleaning Facilities
- Environmental Activity and Sector Registry
- Environmental Registry
- **Environmental Compliance Approval (2)** – The ECA database, dated Oct 2011-April 30, 2018 identified 2 entries within 250m of the site. Both of the entries were for private sewage works. There are no environmental concerns associated with these environmental compliance approvals.
- Environmental Effects Monitoring
- **ERIS Historical Searches (4)** - The ERIS Historical Search database, dated 1999-Feb 28, 2018 identified 4 entries within 250m of the site which included one for the site itself. ERIS searches do not pose an environmental concern.
- Environmental Issues Information System
- Environmental Management Historical Event
- **List of TSSA Expired Facilities (1)** – The EXP database, dated Feb 28, 2017 identified one entry 89.4 meters from the site at 1111 Klondike Road. The J. Tierney Jims Gas Bar was identified as an expired TSSA facility in 1990 and 2009. The potential for underground storage tanks could pose an environmental concern to the subject site, however historical soil and groundwater sampling conducted on the site showed no evidence of contamination from this activity.
- Federal Convictions

- Contaminated Sites on Federal Land
- Fisheries & Oceans Fuel Tanks
- Fuel Storage Tank
- Fuel Storage Tank - Historic
- **Ontario Regulation 347 Waste Generators Summary (14)** - The GEN database, dated 1986-Dec 31, 2017 identified 14 entries within 250 m of the site. These include various pharmacies and medical centres. The waste generated included pharmaceuticals and pathological wastes. There are no environmental concerns associated with these waste generators.
- Greenhouse Gas Emissions from Large Facilities
- TSSA Historic Incidents
- Indian & Northern Affairs Fuel Tanks
- TSSA Incidents
- Landfill Inventory Management Ontario
- Canadian Mine Locations
- Environmental Penalty Annual Report
- Mineral Occurrences
- National Analysis of Trends in Emergencies System (NATES)
- Non-Compliance Reports
- National Defence & Canadian Forces Fuel Tanks
- National Defence & Canadian Forces Spills
- National Defence & Canadian Forces Waste Disposal Sites
- National Energy Board Pipeline Incidents
- National Energy Board Wells
- National Environmental Emergencies System (NEES)
- National PCB Inventory
- National Pollutant Release Inventory
- Oil and Gas Wells
- Ontario Oil and Gas Wells
- Inventory of PCB Storage Sites
- Orders
- Canadian Pulp and Paper
- Parks Canada Fuel Storage Tanks
- **Pesticide Register (2)** - The PES database, dated 1988-Mar 2018 identified two entries within 250m of the site. Both are for a nearby pharmacy. There are no environmental concerns associated with these entries.
- TSSA Pipeline Incidents

- **Private and Retail Fuel Storage Tanks (1)** – The PRT database, dated 1989-1996 identified one entry within 250m of the site. The J. Tierney Jims Gas Bar was identified at 1111 Klondike Road. The potential for underground storage tanks could pose an environmental concern to the subject site, however historical soil and groundwater sampling conducted on the site showed no evidence of contamination from this activity.
- Permit to Take Water
- Ontario Regulation 347 Waste Receivers Summary
- **Record of Site Condition (1)** – The RSC database, dated 1997-Sept 2004, Oct 20004-Apr 2018 identified the site located at 788 March Road as having an RSC completed on the property by Imperial Oil in 2009. The RSC is discussed later in this report and does not pose an environmental concern to the site.
- Retail Fuel Storage Tanks
- Scott's Manufacturing Directory
- Ontario Spills
- Wastewater Discharger Registration Database
- Anderson's Storage Tanks
- Transport Canada Fuel Storage Tanks
- TSSA Variances for Abandonment of Underground Storage Tanks
- Waste Disposal Sites - MOE CA Inventory
- Waste Disposal Sites - MOE 1991 Historical Approval Inventory
- **Water Well Information System (21)** - The WWIS database, dated Dec 31, 2017 identified 21 entries within 250 m of the site, with two of these being on the subject site. The two entries for the site include the drilling of a monitoring well in 2009 and its abandonment in 2010. The remaining entries surrounding the site were mainly for the drilling of domestic and municipal water wells. These entries do not pose an environmental concern to the site.

3.2 Physical Setting Sources

3.2.1 Aerial Photographs

Aerial photographs from 1934, 1946, 1952, 1964, 1975, 1988 and 1994 were examined at the National Air Photo Library. Many of these air photos were at small scales and viewing finer details was difficult. City of Ottawa geoOttawa photos from 1965, 1991, 2002, 2008, 2009, 2011, 2014 and 2017 were reviewed on-line and provided much more detailed views of the site and surrounding areas. Air photos at approximately 10 year intervals were reviewed, to supplement historic information for the site. The air photo coverage reviewed was deemed adequate based on the residential, agricultural land and undeveloped nature of the site. Air photographs for the site were not available prior to 1934. Selected photos reviewed are reproduced in Appendix D.

The following provides a list of the aerial photographs reviewed by photo year, line number, photo number and scale.

<i>Date (yyyy/mm/dd)</i>	<i>Line Number</i>	<i>Photo Number</i>	<i>Scale</i>
1934-06-20	A698	22	1 : 20,000
1946-08-14	A10370	232	1 : 15,000
1952-07-31	A13380	22	1 : 15,000
1964-04-15	A18343	73	1 : 25,000
1975-04-30	A23959	59	1 : 15,000
1988-11-25	A31529	94	1 : 20,000
1994-10-12	A28146	79	1 : 10,000
1965, 1991, 2002, 2008, 2009, 2011, 2014, 2017	geoOttawa	Not applicable	Varies

The following information summarizes the findings of the air photos reviewed for the site and adjacent properties within a 250 metre radius of the site. For the purposes of this report, Klondike Road is considered north of the site.

788 March Road – the site

In 1934, there was one structure present along the western boundary of the site, along March Road. The site also included a surface water course (brook) along the eastern boundary and vacant land. By 1952, some of the vacant lands had been converted to farmed agricultural fields. A second structure was visible in the 1964 air photo, on the site along March Road. Both structures appeared to be residential in nature and may have also included small sheds or outbuildings. The 1964 air photo also showed a very small shed structure located in the southern portion of the site, on the east side of the brook, likely used by the adjacent farm to the east of the site, however there were no paths leading to this shed. By 1991, only one residential structure remained on the site along March Road and the remainder of the site was vacant and treed land and the brook. Former agricultural areas had been allowed to grow over. The last remaining structure had been demolished by the 1994 air photo. The land remained vacant between 1994 and 2008. A temporary construction storage area was located along March Road in the central portion of the site in 2009 and included one large metal storage container and several smaller storage items. This area was accessed from March Road a little north of the storage area and was likely used for the March Road and Klondike Road widening projects. By the 2011 air photo, March Road to the west and Klondike Road to the north had been expanded. The storage area was gone, and the land had been allowed to grow over. The site remained vacant and wooded land with Shirley’s Brook from 2011 to 2017.

Adjacent North

Klondike Road was present north of the site in all of the air photos reviewed. Lands beyond consisted of residential, agricultural and vacant from 1934 to 2008. Some of the agricultural and vacant lands

were began conversion to light commercial by the 2009 air photo which was completed by the 2011 air photo. Klondike Road was widened by the time of the 2011 air photo. The 2017 air photo showed a crushed gravel drainage path along Klondike Road to the brook.

Adjacent South

Lands south of the site consisted of farmland and agricultural fields from 1934 to 1988. Some of the agricultural lands were converted to residential development by the 1988 air photo. Additional residential housing units were constructed throughout the years.

Adjacent East

A brook was present east of the site in all air photos reviewed. Lands beyond the brook included residential and agricultural from 1934 to 1994. A church and associated parking lots were built by the time of the 1991 air photo on the east side of the brook with residential beyond which remained unchanged through 2017.

Adjacent West

March Road was present in all air photos reviewed and had been widened significantly by the time of the 2001 air photo. Lands beyond March Road consisted of residential and agricultural in 1934. A larger structure was present at the corner of March Road and Klondike Road in 1952 which appeared commercial in nature. Additional potential commercial buildings were observed further west in the 1975 air photo. The Morgan's Grant community development had started by the time of the 1988 air photo the majority of the agricultural lands were being used for construction staging and fill deposition areas. The three commercial buildings had been demolished by 2002 and replaced with residential homes. The original structure at the corner of March and Klondike Roads had been removed by 2007 and this area was under development for light commercial lands by 2008. March Road was widened by the time of the 2011 air photo.

Historical land uses on the site and within the study area do not pose a significant environmental concern to the site.

The air photos from 1946, 1952, 1975, 1991, 2009 and 2017 are reproduced in Appendix D.

3.2.2 Fire Insurance Plans

No Fire Insurance Plans (FIPs) are available covering the subject property as FIPs were historically only prepared for select urban centres. Nonetheless, FIPs from 1901, 1912, 1922, and 1956/1963 were reviewed for the site at the National Archives of Canada to confirm that no information exists. As expected, based on the location of the site, outside the City of Ottawa limits during these years, the site was not covered in any of the FIP reviewed.

Fire insurance plans after 1956/1963 are not available for the City of Ottawa.

3.2.3 City Directories

City of Ottawa Directories were reviewed for the years 1990, 1996 and 2000. There were no listings

for the site in the City Directories.

3.2.4 Databases and Inventories

The following databases and inventories were consulted:

- *Old Landfill Management Strategy – Phase I – Identification of Sites, City of Ottawa, Ontario.* Golder Associates Ltd., 2004;
- *Inventory of Coal Gasification Plant Waste Sites.* INTERA Technologies Ltd., 1987;
- *Mapping and Assessment of Former Industrial Sites.* INTERA Technologies Ltd., 1988; and
- *Wetlands.* MNR, 2015.

3.2.4.1 Old Landfill Management Strategy

Active disposal sites were not identified on the site or in the immediately surrounding area. One closed waste disposal site was identified in the Old Landfill Management Strategy document within two kilometres (km) of the site. The March Landfill was identified approximately 1.7 km west of the site. This landfill was operational from 1960 to 1973 and reportedly accepted domestic wastes, commercial, agricultural, and industrial. Based on regional groundwater flow direction, which is likely toward the Ottawa River to the north, this landfill does not pose a significant environmental concern to the site.

3.2.4.2 Former Industrial Sites and Coal Gasification Plants Inventories

Coal gasification plant sites were not identified on the site or in the surrounding area.

Former industrial sites were not identified on the site or in the surrounding area, as this report does not cover the area of the site.

3.2.4.3 Wetlands

There were no significant wetlands identified on the site or within 250 metres of the site as part of this update report. One swamp was identified approximately 80m north of the site.

3.2.4.4 Ontario Ministry of the Environment and Climate Change (MOECC)

A Freedom of Information request was made to MOE regarding 788 March Road during the 2010 Geofirma Phase I ESA, to determine any environmental orders or other legal undertakings which may have been brought against the site, and to determine whether the site has been used for the purposes of waste disposal. A Record of Site Condition for the site was identified by the MOECC as per a response from Donna Currie, Freedom of Information coordinator. O'Connor Associates Environmental Inc. (O'Connor) filed a Record of Site Condition on behalf of the current site owner, Imperial Oil Limited on January 29, 2010. The Record of Site Condition does not apply to the entire site. In 2009, a Phase I and a Phase II Environmental Site Assessment was completed by O'Connor, results of the soil and groundwater analysis did not indicate any evidence of contamination.

3.2.5 Topography, Hydrology and Geology

Information on site topography, hydrology and geology were obtained from review of surficial and bedrock geology mapping, topographical maps. Figure A.3, Appendix A, is a topographic map of the site and study area, and the location of surface water in the vicinity of the site.

The topography of the site generally slopes from west to east. Total elevation relief over the site is less than 4 meters. The elevation of the site is approximately 76 meters above sea level (mASL).

The site is located approximately 2.5 kilometers (km) southwest of the Ottawa River; approximately 4 km north of the Carp River; and Shirley's Brook is located on the eastern portion of the property. Regional groundwater flow direction is interpreted as north towards the Ottawa River. Local groundwater flow is likely influenced by the location of the nearby brook and underground municipal utility and sewer excavations. No monitoring wells are installed at the site, therefore the elevation of the water table has not been determined. However, wet soil was observed during the previous drilling investigation at approximately 3 meters below ground surface (mBGS) in 2010. The direction of shallow groundwater flow beneath the site is likely toward the north-east, discharging to Shirley's Brook (the brook).

The geological setting of the area is described as follows:

- Surficial Geology: Fine-textured glaciomarine deposits: silt and clay, minor sand and gravel, massive to well laminated (OGS, 2010)
- Bedrock Geology: Dolostone, sandstone – Beekmantown Group (OGS, 2011).

3.2.6 Fill Materials

Geofirma (formerly Intera Engineering Ltd.) completed a Phase I ESA and Supplemental Soil Investigation in December 2010 (Intera, 2010) for the City of Ottawa. A series of fill piles (estimated to be greater than 20 years old) were identified within treed areas and adjacent to Shirley's Brook. Geofirma completed shallow soil sampling from a variety of fill pile locations to confirm fill quality. Soil samples were analysed for PHC, BTEX and metals and chemistry results from the fill piles showed that there were no exceedances of applicable MOE Table 8 standards (generic site condition standards for use within 30m of a water body in a potable groundwater condition, residential/parkland/institutional/industrial/commercial/community property use), however minor exceedances of barium compared to current 2011 MOE Table 8 were noted in two native soil samples. These values also exceeded the 2011 MOE Table 1 background standards.

3.2.7 Water Bodies and Areas of Natural Significance

Shirley's Brook is located along the eastern boundary of the site. Regional groundwater flow direction is interpreted as north towards the Ottawa River. Local groundwater flow is likely influenced by the location of the nearby brook and underground municipal utility and sewer excavations. There are no areas of natural significance, as defined by the Ontario Ministry of Natural Resources and provided in the MNR GIS database or the ERIS database, located on or within 250 m of the site.

3.2.8 Well Records

The ERIS report (ERIS, 2018) reported that one monitoring well was identified on the site in 2009 and was abandoned in 2010. An additional 19 wells were identified within 250m of the site. These were domestic, municipal and commercial water wells.

3.2.9 Site Operating Records

The site is a vacant parcel of land. There are no site operating records available or required for the site.

4 INTERVIEWS

Imperial Oil Ltd., declined an interview as part of the Geofirma 2010 Phase I ESA, however Imperial Oil Ltd. provided the City an appraisal for the property. Imperial Oil did not provide a copy of the Phase One ESA or Phase Two ESA in support of the 2010 RSC however they provided an opportunity for Geofirma (on behalf of the City of Ottawa) to review the reports under supervision of Imperial Oil's consultant (O'Connor Associates).

Currently there are no additional people associated with the site that are knowledgeable about historical site conditions and as the site remains vacant, no interviews were conducted.

5 SITE RECONNAISSANCE

5.1 General Requirements

The site reconnaissance visit was conducted during the morning of July 3, 2018 by Geofirma staff Angela Garrison who was unaccompanied. It was a sunny morning with a temperature of 18° Celcius. The inspection lasted approximately a half an hour and included a visual inspection of the vacant lands and surrounding land. There were no limitations to the visual inspection at the time of the visit. Water was visible in the brook and was stagnant at the time of the site inspection.

The site is not considered an enhanced investigation property under Ontario Regulation 153/04 (as amended). The site is a vacant parcel of land with no structures and is not currently in use. There are currently no operations of concern at the site.

Photographs were taken to document conditions at the site. Site photographs, including descriptions, are provided in Appendix E.

5.2 Specific Observations at Phase One ESA Property

The site is currently a vacant parcel of land. There are no buildings or structures located on the site.

The site is bounded by Klondike Road to the north, Shirley's Brook to the east, vacant land to the south and March Road to the west.

5.2.1 Utilities

Utilities are not provided to the site, however do run along March Road and Klondike Road to the west and north respectively.

5.2.2 Heating and Cooling Systems

No heating or cooling equipment was observed on the site during the Geofirma site inspection.

5.2.3 Drains and Sumps

No drains or sumps were observed on the site during the Geofirma site inspection.

5.2.4 Unidentified Substances

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

5.2.5 Odours

No odours were observed at the time of the site inspection.

5.2.6 Staining

No stained materials were observed on the site at the time of the Geofirma site inspection.

5.2.7 Stressed Vegetation

No stressed vegetation were observed on the site at the time of the Geofirma site inspection

5.2.8 Fill Materials

Small piles of sand and gravel fill were observed in the wooded area and along the northern edge of the property during the 2010 Phase I ESA. It was concluded that based on the extensive vegetation growth (i.e. grasses, trees) and animal burrows on top of these fill piles, they are assumed to have been deposited several years prior. Shallow soil sampling was completed from a variety of fill pile locations to confirm fill quality (Intera, 2010). Soil samples were analysed for PHC, BTEX and metals and chemistry results from the fill piles showed that minor exceedances of barium compared to 2011 MOE Table 8 standards were noted in two native soil samples.

5.2.9 Waste Materials

No waste materials were observed on the site.

5.2.10 Pits and Lagoons

No pits or lagoons were observed on the site during the Geofirma site inspection.

5.2.11 Watercourses, Ditches, or Standing Water

Shirley's Brook is located on the east side of the site. No other watercourses, ditches or standing water was observed on site at the time of the Geofirma site inspection.

5.2.12 Well Locations and Details

What appeared to be an artesian well (i.e. not being used and not properly abandoned) was observed on the adjacent south property located within Shirley's Brook in 2010 in a former Phase I ESA. The surface water level in the brook was high enough that it covered the bottom of the well casing and only approximately 0.3 m of the casing was visible. At the time of the 2010 site inspection the well was flowing into the brook. This well was not observed during the site inspection conducted for this report.

5.2.13 Hazardous Materials

No hazardous materials were observed at the site at the time of the Geofirma site inspection.

5.2.14 Storage Tanks and Storage Containers

No storage tanks or storage containers were observed at the site at the time of the Geofirma site inspection.

6 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses

The site is currently addressed as 788 March Road, Ottawa. The site is currently vacant.

Form A2 below, provides a summary of past uses of the site, and is provided in the format specified in O.Reg 153/04. Normally the form is divided into two sections; the first section provides a summary based on ownership, while the second section of the table provides a summary based on occupants of the site. However, with this site, the owner and occupant are the same and therefore are only provided once. All known occupants for the site are listed on Form A2. All information was collected through the historical review for the site.

Form A2

Table of Current and Past Uses of the Phase One ESA Property

(Refer to clause 16(2)(b), Schedule D, O. Reg. 153/04)

Year	Name of <u>Owner/Occupant</u>	Description of Property Use	Property Use	Other Observation from Aerial Photographs, Fire Insurance Plans, etc.
Pre 1846	Crown	Vacant	Agricultural or other	Historical information prior to 1934 is based on the title search only.
1846 - 1854	John Armstrong	Residential	Residential	Historical information prior to 1934 is based on the title search only.
1854 - 1905	James Armstrong	Residential	Residential	Historical information prior to 1934 is based on the title search only.
1905 - 1914	Ann Armstrong	Residential	Residential	Historical information prior to 1934 is based on the title search only.
1914 - 1940	Estate of George Armstrong	Residential	Residential	In 1934, there was one structure present along the western boundary of the site, along March Road. The site also included Shirley's Brook along the eastern boundary and vacant land.
1940 - 1948	Eric F. Armstrong	Residential	Residential	Residential
1948 – 1960 (part 1)	Harold Armstrong	Residential, Agricultural	Residential, Agricultural or other	By 1952, some of the vacant lands had been converted to farmed agricultural fields.

Year	Name of <u>Owner/Occupant</u>	Description of Property Use	Property Use	Other Observation from Aerial Photographs, Fire Insurance Plans, etc.
1960 – 1987 (part 1)	Leonard Roy, Sussanna Roy	Residential, Agricultural	Residential, Agricultural or other	A second structure was visible in the 1964 air photo, on the site along March Road. Both structures on the site appeared to be residential in nature and may have also included small sheds or outbuildings. The 1964 air photo also showed a very small shed structure located in the southern portion of the site, on the east side of the brook, likely used by the adjacent farm to the east of the site, however there were no paths leading to this shed.
1948 – 1982 (part 2)	Harold Armstrong	Residential, Agricultural	Residential, Agricultural or other	Residential and agricultural farm lands.
1982 – 1983 (part 2)	Allen A. Stewart, Margaret Stewart	Residential, Agricultural	Residential, Agricultural or other	Residential and agricultural farm lands.
1983 – 1987 (part 2)	Kanata Red Oak Developments Ltd.	Residential, Agricultural	Residential, Agricultural or other	Residential and agricultural farm lands.
1987 - 1993	Allen Stewart In Trust	Residential, Agricultural	Residential, Agricultural or other	By 1991, only one residential structure remained on the site along March Road and the remainder of the site was vacant and treed land and the brook. Former agricultural areas had been allowed to grow over.
1993 - 1997	1048383 Ontario Inc.	Vacant	Agricultural or other	The last remaining structure had been demolished by the 1994 air photo. The land remained vacant between 1994 and 2008.
1997 - 2001	1202642 Ontario Inc., Metal Imports Ltd. In Trust	Vacant	Agricultural or other	Vacant land.
2001 - 2010	Imperial Oil Limited	Vacant, container storage area	Agricultural or other, Industrial	A temporary container/material storage area was located along March Road in the central portion of the site in 2009 and included one large metal storage container and several smaller storage items. This area was accessed from March Road a little north of the storage area and may have been used for the March Road and Klondike Road widening projects.

Year	Name of <u>Owner/Occupant</u>	Description of Property Use	Property Use	Other Observation from Aerial Photographs, Fire Insurance Plans, etc.
2010 - 2018	City of Ottawa	Vacant	Agricultural or other	By the 2011 air photo, March Road to the west and Klondike Road to the north had been expanded. The storage area was gone, and the land had been allowed to grow over. The site remained vacant and wooded land with Shirley's Brook from 2011 to 2017.
2018	Omnipex Ltd.	Vacant	Agricultural or other	Vacant, wooded land with Shirley's Brook.

6.2 Potentially Contaminating Activities

There are no potentially contaminating activities (PCA) associated with the site. Two activities that may have posed a concern included the fill materials placed on the site and the former garage located northwest of the site, however both of these activities were investigated as part of previous environmental investigations and were not concluded to be PCA's. The 2010 RSC for the property reported all soil and groundwater concentrations met the current applicable standards for the site. The fill piles were investigated as part of the 2010 Phase I ESA (Intera, 2010) and reported minor exceedences of barium above 2011 MOECC Table 8 standards in native clay materials below the fill which do not pose a significant environmental concern to the site.

6.3 Areas of Potential Environmental Concern

As there were no PCA's identified for the site, no areas of potential environmental concern (APECs) are identified.

6.4 Phase One Conceptual Site Model

Interpreting the probable environmental conditions of the site is undertaken by reference to a Phase One Conceptual Site Model (CSM). A Conceptual Site Model is an idealization of potential site contaminants and their interaction with the hydrogeologic system and surrounding properties, based on the known conditions of a site. The Conceptual Site Model includes a description of the potentially contaminating activities at the Phase One ESA property and surrounding properties, identifying contaminants of concern and their source locations. The model also demonstrates the interaction of these contaminants with the natural environment (soil, groundwater, bedrock, water bodies) and the built environment (utilities, buildings), identifying potential receptors.

As there were no potentially contaminating activities identified and no areas of potential concern, a conceptual site model is not required for the site.

7 CONCLUSIONS

Based on the information obtained during the 2010 Phase I ESA and soil investigation program as well as the current Phase One ESA, the following conclusions are made:

- The site is currently a vacant parcel of land. Shirley's Brook is located along the eastern boundary of the site.
- Based on historical air photos, one structure was present on the site between 1934 and 1964; two structures were present on the site between 1964 and 1994. All buildings had been demolished by 1994. The site was used as a construction storage area in the 2009 air photo and was once again vacant land by the time of the 2011 air photo.
- A Record of Site Condition (RSC#63910) was filed on January 29, 2010 for portions of the site. This RSC was only completed for the portion of the property greater than 30 m from Shirley's Brook. The MOE soil and groundwater standards were updated after this RSC was filed and therefore the historical soil and groundwater concentrations were compared to the current 2011 MOECC standards as part of this report. None of the reported soil or groundwater concentrations exceed the current 2011 MOECC Table 2 (potable water condition, for medium/fine soils, residential/parkland/industrial property use) for the portion of the property greater than 30 m from Shirley's Brook, however exceedances of barium and total chromium were noted compared to 2011 MOE Table 1 (background) standards.
- A Phase I ESA and Supplemental Soil Investigation was completed by Geofirma for the City of Ottawa for the property in 2010 as part of the City's road widening project in the area. No environmental concerns were noted from the historical review, regulatory inquiries or site inspection, however a series of fill piles (estimated to be greater than 20 years old) were identified within treed areas and adjacent to Shirley's Brook. As previous studies did not investigate the soil quality from these fill piles, shallow soil sampling was completed from a variety of fill pile locations to confirm fill quality. These soil sampling locations were located within 30m of the waterbody and were analysed for PHC, BTEX and metals. Similarly, these historical reported concentrations were compared to the current MOECC standards. Chemistry results from the fill piles showed that there were no exceedances in the fill materials however, minor exceedances of barium was found in two of the native clay soil samples beneath the fill when compared to 2011 MOE Table 8 (soil within 30m of a waterbody in a potable groundwater condition) and MOE Table 1 (background) standards.
- A former garage was identified immediately northwest of the site, across March Road historically. Soil and groundwater sampling conducted as part of the RSC did not identify any impact to the subject property and therefore this activity is not considered to pose a concern to the site.
- Based on the results of this Phase One ESA, no further site characterization is recommended at this time.

8 CLOSURE

This report has been prepared for the exclusive use of 10731854 Canada Inc. using a methodology for conducting environmental site assessments that is acceptable within the profession. It should be noted that results of an investigation of this type should in no way be construed as a warranty that the site is free from any and all contamination from past or current practices.

Geofirma Engineering Ltd. has exercised professional judgment in collecting and analyzing the information and in formulating recommendations based on the results of the study. The mandate at Geofirma is to perform the given tasks within guidelines prescribed by the client and with the quality and due diligence expected within the profession. No other warranty or representation expressed or implied, as to the accuracy of the information or recommendations is included or intended in this report.

Geofirma Engineering Ltd. hereby disclaims any liability or responsibility to any person or party, other than the party to whom this report is addressed, for any loss, damage, expense, fines or penalties which may arise or result from the use of any information or recommendations contained in this report by any other party. Any use of this report constitutes acceptance of the limits of Geofirma's liability. Geofirma's liability extends only to its client and only for the total amount of fees received from the client for this specific project and not to other parties who may obtain this report.

Respectfully submitted,

Geofirma Engineering Ltd.



Angela Garrison, CET
Environmental Technologist



Sean Sterling, MSc, PEng, PGeo
Principal / Senior Engineer

9 REFERENCES

Canadian Standards Association (CSA), 2001, re-affirmed 2012. Phase I Environmental Site Assessment (Z768-01)

City of Ottawa, 2016. <http://maps.ottawa.ca/geoOttawa/>, mapping website

Golder Associates Ltd., 2004. Old Landfill Management Strategy – Phase I - Identification of Sites, City of Ottawa, Ontario

Google Earth: website, 2018

Intera Engineering Ltd., 2010. Phase I Environmental Site Assessment and Supplemental Soil Investigation – 788 March Road, Ottawa, Ontario, December

Intera Technologies Ltd., 1987. Inventory of Coal Gasification Plant Waste Sites in Ontario, July

Intera Technologies Ltd., 1988. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July

O'Connor Associates Environmental Inc., 2009a. Phase I Environmental Site Assessment, Vacant Land, 788 March Road, Kanata, Ontario. July 30.

O'Connor Associates Environmental Inc., 2009b. Phase II Environmental Site Assessment, 788 March Road, Kanata, Ontario. August 20.

Ontario Geological Survey, 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV

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

Ontario Ministry of Natural Resources (MNR), 2015. Wetlands Unit

Ontario Ministry of Natural Resources (MNR), 2012. Areas of Natural and Scientific Interest

Ontario Ministry of the Environment and Climate Change (MOECC), 2017. Brownfields Environmental Site Registry: http://www.ene.gov.on.ca/environment/en/subject/brownfields/STDPROD_075742.html

Ontario Ministry of the Environment (MOE), 2009. Ontario Regulation 490/09, Designated Substances

Natural Resources Values Information System, 2012. Areas of Natural and Scientific Interest

APPENDIX A

Figures

Figure A.1 – Site Location

Figure A.2 – Site Layout

Figure A.3 – Topographic Map



LEGEND

 788 March Road

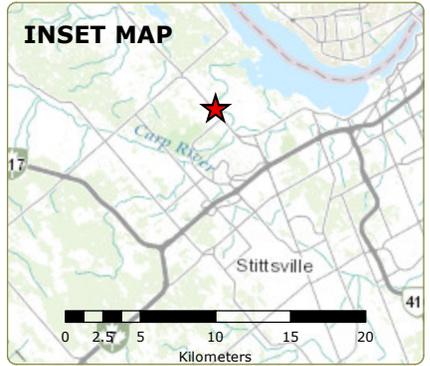
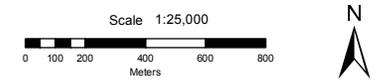


Figure A.1
Site Location



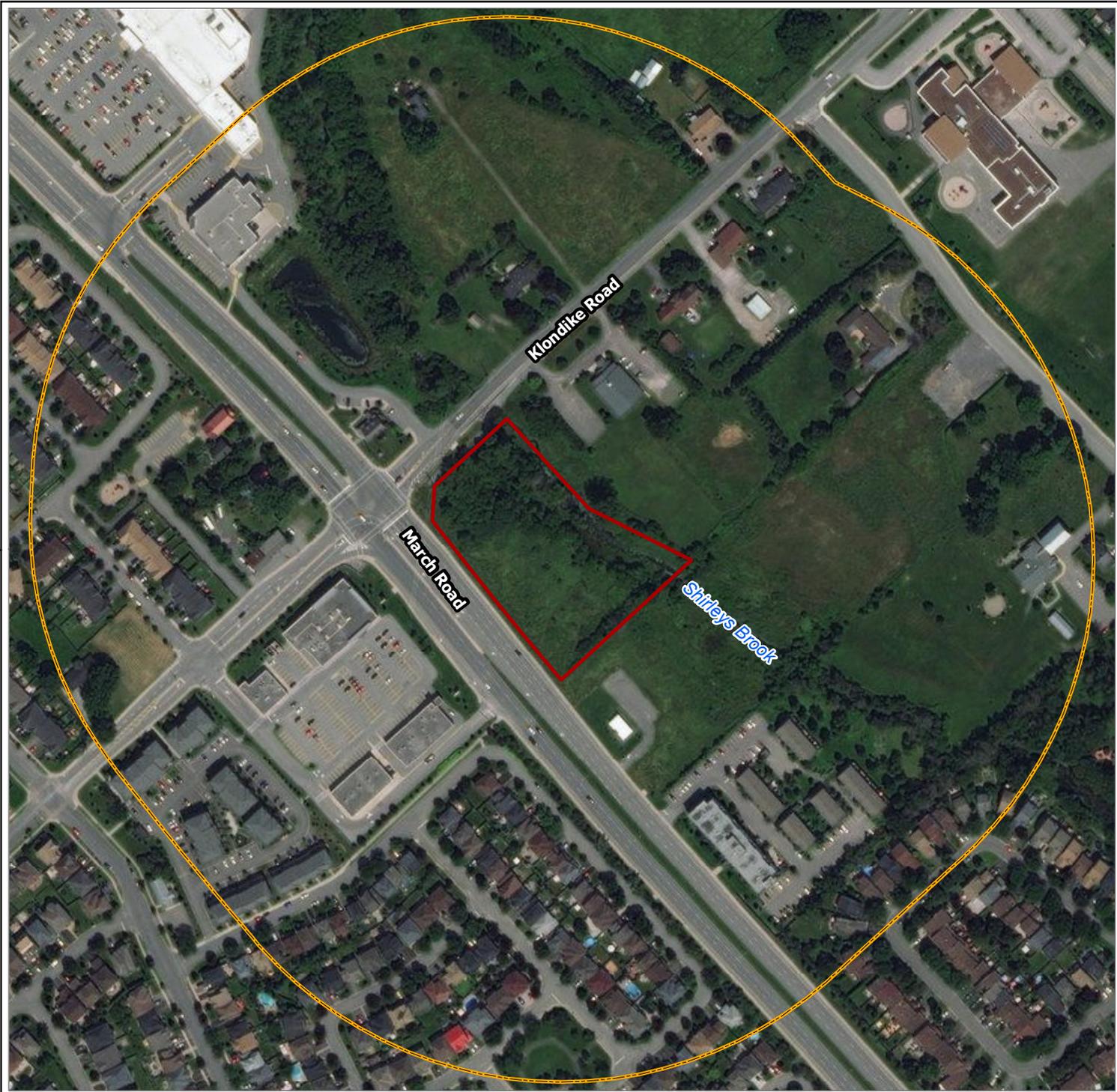
Coordinate System: NAD 1983 UTM Zone 18N
 Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA
 Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

PROJECT No. 18-206-1
 PROJECT Phase One Environmental Site Assessment
 788 March Road, Ottawa, ON

DESIGN: ADG
 CAD/GIS: ADG
 CHECK: SNS
 REV: 0

DATE: 24/06/2018

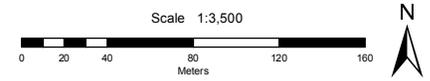




LEGEND

-  788 March Road
-  250m Study Area Buffer from the Boundaries of the Site

**Figure A.2
Site Layout**



Coordinate System: NAD 1983 MTM 9
 Source: ESRI, geobase
 Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

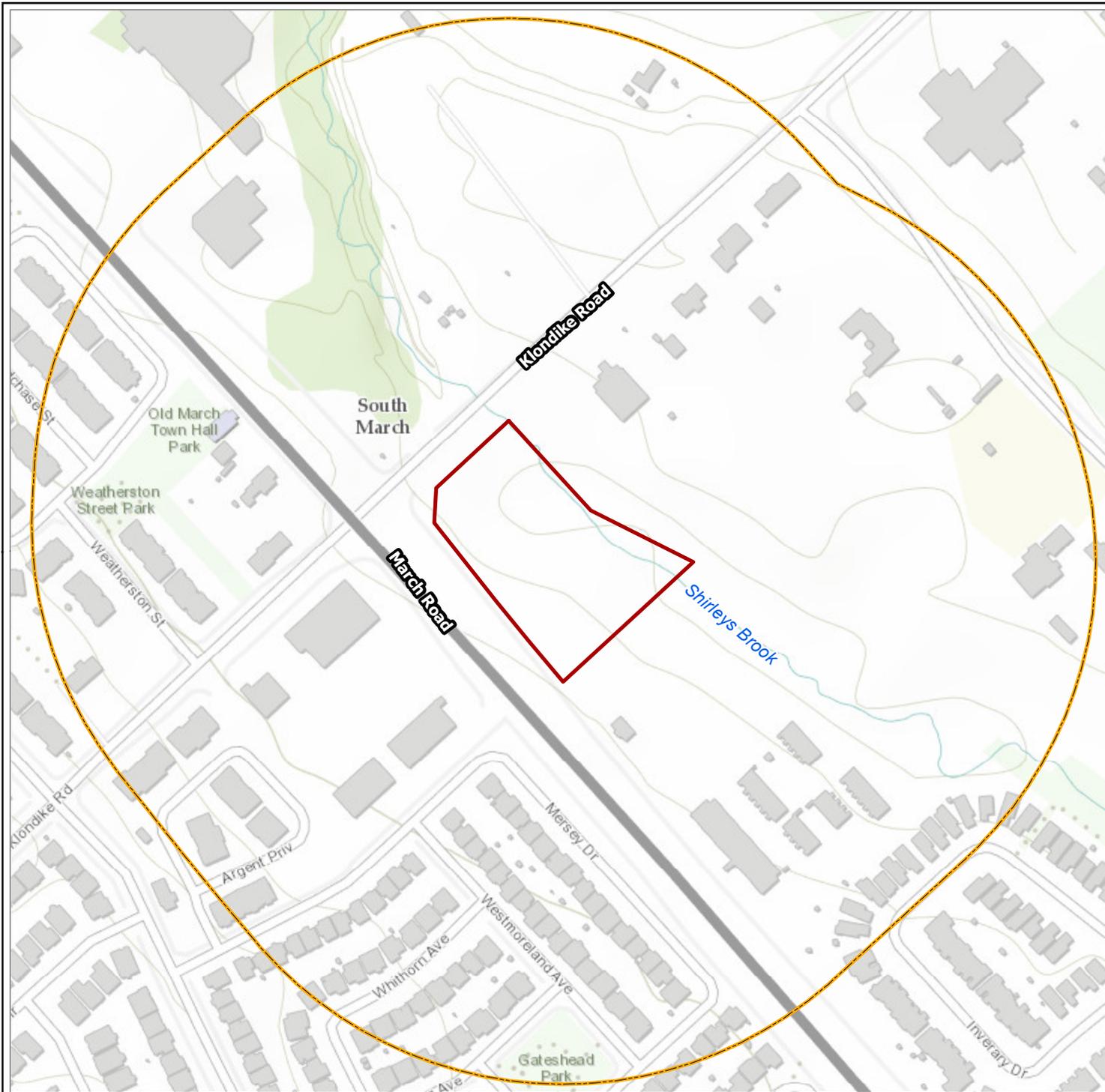
PROJECT No. 18-206-1

PROJECT Phase One Environmental Site Assessment
 788 March Road, Ottawa, ON

DESIGN: ADG
 CAD/GIS: ADG
 CHECK: SNS
 REV: 0

DATE: 24/06/2018

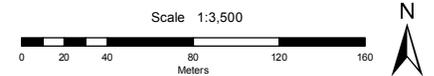




LEGEND

- 788 March Road
- 250m Study Area Buffer from the Boundaries of the Site

**Figure A.3
Topographic Map**



Coordinate System: NAD 1983 MTM 9
 Source: ESRI, geobase
 Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

PROJECT No. 18-206-1
 PROJECT Phase One Environmental Site Assessment
 788 March Road, Ottawa, ON

DESIGN: ADG
 CAD/GIS: ADG
 CHECK: SNS
 REV: 0



DATE: 24/06/2018

APPENDIX B

Title Search

Attn: Fish Petrie

①

ENVIRONMENTAL SEARCH

788 March Road, Kanata

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
	Patent	Apr 23 1846	Eisen	John Armstrong
R07854	Deed	Oct 5 1854	John Armstrong	James Armstrong
MH1775	Will	May 30 1905	James Armstrong	Ann Armstrong George Armstrong
MH2417	Deed	June 20 1914	Ann Armstrong	George Armstrong
MH3485	Deed	June 4 1940	Estate of George Armstrong	Harold Armstrong Eric F. Armstrong
MH3746	Deed	June 8 1948	Eric F. Armstrong	Harold Armstrong
MH4515	Deed	Feb 4 1960	Harold Armstrong	Leonard Roy Susanna Roy (Part)
N398637	Deed	July 17 1987	Susanna Roy	Allen Stewart In Trust

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
N681746	Deed	Dec 24 1993	Allen Stewart In Trust	1048383 Ontario Inc. (all)
LT1097317	Thero- closure	Dec 24 1997	Ontario Court (General Division)	1202642 Ontario Inc.
LT1380109	Power of Sale	May 1 2001	Metal Experts Ltd., In Trust	1436996 Ontario Inc.
LT1384542	Deed	May 16 2001	1436996 Ontario Inc.	Imperial Oil Limited (Current Owner)
* Note - See page 1 up until instrument no. MH 3746 for the previous owners of the chain of title continued below.				
N5154358	Deed	June 25 1982	Estate of Harold Armstrong	Allen A. Stewart Margaret Stewart (Part)
N5219271	Deed	Nov 25 1983	Allen A. Stewart Margaret Stewart	Kanata Red Oak Developments Ltd.

APPENDIX C

ERIS Documentation

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



DATABASE REPORT

Project Property: 788 March Road
788 March Road
Kanata ON K2K 1X7

Project No:

Report Type: RSC Report (Urban)

Order No: 20180618029

Requested by: Geofirma Engineering

Date Completed: June 21, 2018

**Environmental Risk
Information Services**

A division of Glacier Media Inc.

P: 1.866.517.5204

E: info@erisinfo.com

www.erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	10
Map.....	15
Aerial.....	16
Topographic Map.....	17
Detail Report.....	18
Unplottable Summary.....	98
Unplottable Report.....	103
Appendix: Database Descriptions.....	178
Definitions.....	187

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.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property: 788 March Road
788 March Road Kanata ON K2K 1X7

Project No:

Order Information:

Order No: 20180618029
Date Requested: June 18, 2018
Requested by: Geofirma Engineering
Report Type: RSC Report (Urban)

Historical/Products:

Topographic Map Ontario Base Map (OBM)

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	6	6
CA	<i>Certificates of Approval</i>	Y	0	4	4
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DRYCLEANERS	<i>Dry Cleaning Facilities</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	2	2
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	4	5
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	1	1
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	14	14
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MISA PENALTY	<i>Environmental Penalty Annual Report</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBW	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGW	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	2	2
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	1	1
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	1	0	1
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	2	20	22
Total:			4	54	58

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	WWIS		Ottawa ON	-/0.0	-0.64	18
1	WWIS		KANATA ON	-/0.0	-0.64	23
2	RSC	Imperial Oil Limited	1092 Klondike Road and 788 March Road, Kanata, Ontario K2K 1X7 Kanata ON K2K 1X7	-/0.0	1.37	25
3	EHS		788 March Road Kanata ON	-/0.0	1.66	26

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
4	EHS		Klondike Rd & March Rd Ottawa ON	NNW/18.6	-2.46	26
5	WWIS		lot 10 con 4 ON	W/23.0	6.45	27
6	BORE		ON	WSW/27.1	6.45	29
6	WWIS		lot 10 con 4 ON	WSW/27.1	6.45	29
7	CA	R.M. OF OTTAWA-CARLETON	MARCH RD./KLONDIKE RD. (SWM) KANATA CITY ON	W/50.5	6.04	32
8	BORE		ON	NNW/62.7	-2.49	33
8	WWIS		lot 11 con 4 ON	NNW/62.7	-2.49	33
9	WWIS		lot 11 con 4 KANATA ON	NW/63.7	1.34	36
10	WWIS		lot 11 con 3 ON	W/80.4	5.97	37
11	WWIS		lot 10 con 4 ON	NNE/81.1	3.06	40
12	WWIS		lot 11 con 4 KANATA ON	NW/87.3	-1.45	43
13	BORE		ON	WNW/87.5	5.69	47
13	WWIS		lot 11 con 4 ON	WNW/87.5	5.69	48
14	EXP	J TIERNEY JIMS GAS BAR	1111 KLONDIKE RD LOT 11 CON 3 KANATA ON P7B 6C2	W/89.4	5.97	50
14	PRT	J TIERNEY JIMS GAS BAR	1111 KLONDIKE RD LOT 11 CON 3 KANATA ON	W/89.4	5.97	50
15	GEN	2325225 Ontario Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	W/102.2	7.69	50
15	GEN	2325225 Ontario Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	W/102.2	7.69	51
15	GEN	G.G. Pharmacy Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	W/102.2	7.69	51
15	PES	G.G PHARMACY INC.	1102 KLONDIKE RD KANATA ON K2K1X7	W/102.2	7.69	51
15	PES	G.G PHARMACY INC.	1102 KLONDIKE RD KANATA ON K2K 0G1	W/102.2	7.69	52
16	WWIS		lot 10 con 3 ON	WSW/120.9	9.11	52
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	54
17	GEN	INVIVA McKesson Pharma	1108 Klondike Road Unit A Kanata ON K2K 0G1	SW/127.5	9.00	55

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	INVIVA McKesson Pharma INVIVA	1108 Klondike Road Unit A Kanata ON K2K 0G1	SW/127.5	9.00	55
17	GEN	INVIVA McKesson Pharma	1108 Klondike Road Unit A Kanata ON K2K 0G1	SW/127.5	9.00	55
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	55
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	56
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	56
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	56
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON	SW/127.5	9.00	57
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	57
17	GEN	Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	SW/127.5	9.00	57
18	ECA	Blue Heron Co-operative Homes Inc.	750, 760 March Rd Kanata Ottawa ON K2K 2W4	SSE/131.5	3.14	57
19	WWIS		lot 11 con 4 KANATA ON	NW/134.3	-0.31	58
20	CA	Blue Heron Co-operative Homes Inc.	750, 760 March Road, Kanata Ottawa ON	SSE/145.4	4.34	62
20	CA	Blue Heron Co-operative Homes Inc.	750, 760 March Road, Kanata Ottawa ON	SSE/145.4	4.34	62
21	WWIS		lot 10 con 3 KANATA ON	WNW/150.8	4.61	63
22	EHS		351 Sandhill Rd Ottawa ON K2K1X7	ENE/160.9	5.75	64
23	ECA	Blue Heron Co-operative Homes Inc.	750 March Rd Kanata Ottawa ON K2K 2W4	SSE/161.8	3.81	64
24	WWIS		lot 11 con 4 KANATA ON	NW/171.4	-1.36	64
25	EHS		1055 & 1075 Klondike Rd Ottawa ON	NNW/188.5	6.50	68
26	BORE		ON	NE/193.5	5.72	69
26	WWIS		lot 10 con 4 ON	NE/193.5	5.72	69
27	WWIS		lot 10 con 4 KANATA ON	NE/197.2	5.73	71
28	WWIS		lot 11 con 3 ON	WSW/204.6	9.92	77
29	BORE		ON	WSW/217.0	10.08	79
29	WWIS		lot 11 con 3 ON	WSW/217.0	10.08	80
30	WWIS		lot 10 con 4 KANATA ON	NE/217.0	4.90	82
31	WWIS		lot 11 con 4 ON	NE/222.2	5.24	88

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	WWIS		lot 11 con 3 ON	WNW/240.7	6.69	90
33	CA	Riotrin Properties (March Road) Inc.	830 March Rd 1095 Klondike Road Ottawa ON	NW/276.4	5.61	93
34	BORE		ON	E/282.5	5.69	93
34	WWIS		lot 10 con 4 ON	E/282.5	5.69	94
35	EHS		Klondike Rd. and Sandhill Rd. Kanata ON	NNE/286.6	3.10	97

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 6 BORE 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>
	ON	27.1	<u>6</u>
	ON	62.7	<u>8</u>
	ON	87.5	<u>13</u>
	ON	193.5	<u>26</u>
	ON	217.0	<u>29</u>
	ON	282.5	<u>34</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 4 CA 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>
R.M. OF OTTAWA-CARLETON	MARCH RD./KLONDIKE RD. (SWM) KANATA CITY ON	50.5	<u>7</u>
Blue Heron Co-operative Homes Inc.	750, 760 March Road, Kanata Ottawa ON	145.4	<u>20</u>
Blue Heron Co-operative Homes Inc.	750, 760 March Road, Kanata Ottawa ON	145.4	<u>20</u>
Riotrin Properties (March Road) Inc.	830 March Rd 1095 Klondike Road Ottawa ON	276.4	<u>33</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Apr 30, 2018 has found that there are 2 ECA 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>
Blue Heron Co-operative Homes Inc.	750, 760 March Rd Kanata Ottawa ON K2K 2W4	131.5	<u>18</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Blue Heron Co-operative Homes Inc.	750 March Rd Kanata Ottawa ON K2K 2W4	161.8	23

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2018 has found that there are 5 EHS 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>
	788 March Road Kanata ON	0.0	3
	Klondike Rd & March Rd Ottawa ON	18.6	4
	351 Sandhill Rd Ottawa ON K2K1X7	160.9	22
	1055 & 1075 Klondike Rd Ottawa ON	188.5	25
	Klondike Rd. and Sandhill Rd. Kanata ON	286.6	35

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Feb 28, 2017 has found that there are 1 EXP 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>
J TIERNEY JIMS GAS BAR	1111 KLONDIKE RD LOT 11 CON 3 KANATA ON P7B 6C2	89.4	14

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-December 31, 2017 has found that there are 14 GEN 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>
G.G. Pharmacy Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	102.2	15
2325225 Ontario Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	102.2	15
2325225 Ontario Inc.	1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	102.2	15
INVIVA McKesson Pharma	1108 Klondike Road Unit A Kanata ON K2K 0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17
INVIVA McKesson Pharma INVIVA	1108 Klondike Road Unit A Kanata ON K2K 0G1	127.5	17
INVIVA McKesson Pharma	1108 Klondike Road Unit A Kanata ON K2K 0G1	127.5	17
Activecare klondike medical centre	1108 klondike rd. ottawa ON K2K0G1	127.5	17

PES - Pesticide Register

A search of the PES database, dated 1988-Mar 2018 has found that there are 2 PES 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>
G.G PHARMACY INC.	1102 KLONDIKE RD KANATA ON K2K 0G1	102.2	15
G.G PHARMACY INC.	1102 KLONDIKE RD KANATA ON K2K1X7	102.2	15

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT 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>
J TIERNEY JIMS GAS BAR	1111 KLONDIKE RD LOT 11 CON 3 KANATA ON	89.4	14

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Apr 2018 has found that there are 1 RSC site(s) within approximately 0.30 kilometers of the project property.

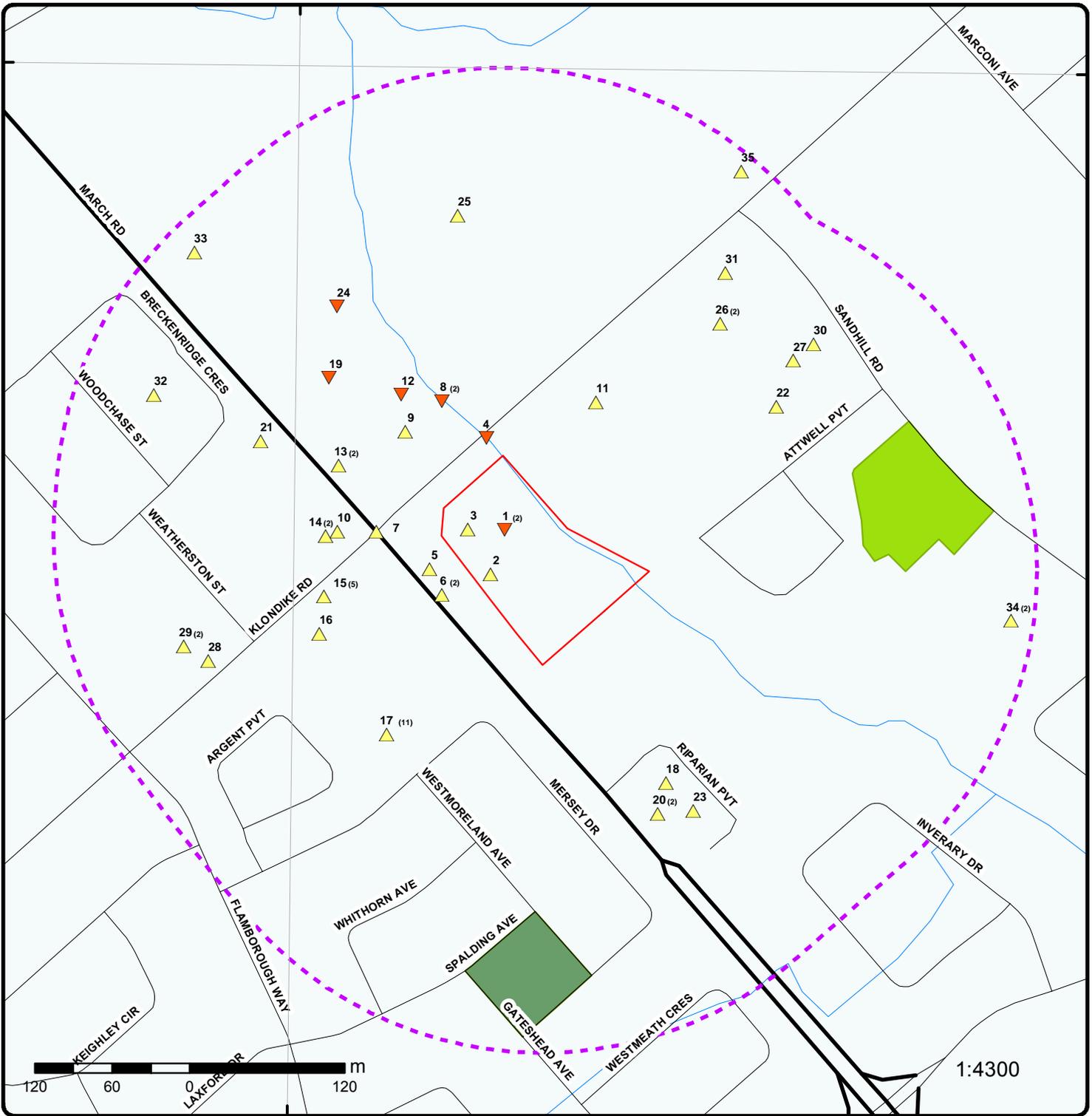
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Imperial Oil Limited	1092 Klondike Road and 788 March Road, Kanata, Ontario K2K 1X7 Kanata ON K2K 1X7	0.0	<u>2</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 22 WWIS 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>
	Ottawa ON	0.0	<u>1</u>
	KANATA ON	0.0	<u>1</u>
	lot 10 con 4 ON	23.0	<u>5</u>
	lot 10 con 4 ON	27.1	<u>6</u>
	lot 11 con 4 ON	62.7	<u>8</u>
	lot 11 con 4 KANATA ON	63.7	<u>9</u>
	lot 11 con 3 ON	80.4	<u>10</u>
	lot 10 con 4 ON	81.1	<u>11</u>
	lot 11 con 4 KANATA ON	87.3	<u>12</u>
	lot 11 con 4 ON	87.5	<u>13</u>
	lot 10 con 3 ON	120.9	<u>16</u>
	lot 11 con 4 KANATA ON	134.3	<u>19</u>
	lot 10 con 3 KANATA ON	150.8	<u>21</u>
	lot 11 con 4 KANATA ON	171.4	<u>24</u>
	lot 10 con 4 ON	193.5	<u>26</u>
	lot 10 con 4 KANATA ON	197.2	<u>27</u>
	lot 11 con 3 ON	204.6	<u>28</u>
	lot 11 con 3 ON	217.0	<u>29</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 10 con 4 KANATA ON	217.0	<u>30</u>
	lot 11 con 4 ON	222.2	<u>31</u>
	lot 11 con 3 ON	240.7	<u>32</u>
	lot 10 con 4 ON	282.5	<u>34</u>



Map : 0.3 Kilometer Radius

Order No: 20180618029
Address: 788 March Road, Kanata, ON, K2K 1X7



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



45°21'N

45°21'N

250 125 0 250 m

1:10000

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial (2017)

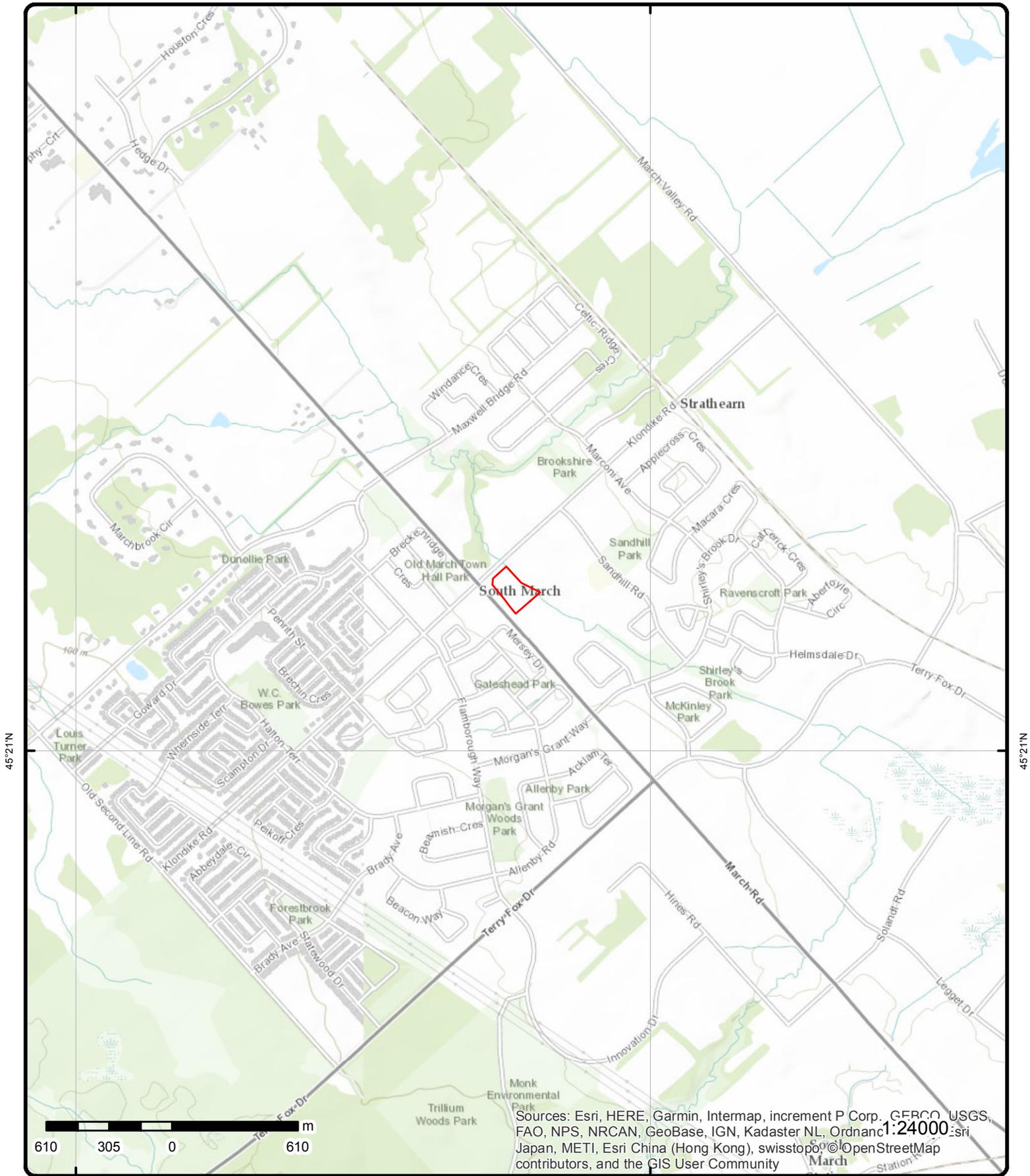
Address: 788 March Road, Kanata, ON, K2K 1X7

Source: ESRI World Imagery

Order No: 20180618029



© ERIS Information Limited Partnership



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

Topographic Map

Address: 788 March Road, Kanata, ON, K2K 1X7

Source: ESRI World Topographic Map

Order No: 20180618029



© ERIS Information Limited Partnership

Detail Report

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

<u>1</u>	1 of 2	-/0.0	73.5/ -0.64	Ottawa ON	WWIS
----------	--------	-------	-------------	-----------	------

<p>Well ID: 7128487</p> <p>Construction Date:</p> <p>Primary Water Use: Monitoring</p> <p>Sec. Water Use:</p> <p>Final Well Status: Test Hole</p> <p>Water Type:</p> <p>Casing Material:</p> <p>Audit No: M04496</p> <p>Tag: A074647</p> <p>Construction Method:</p> <p>Elevation (m):</p> <p>Elevation Reliability:</p> <p>Depth to Bedrock:</p> <p>Well Depth:</p> <p>Overburden/Bedrock:</p> <p>Pump Rate:</p> <p>Static Water Level:</p> <p>Flowing (Y/N):</p> <p>Flow Rate:</p> <p>Clear/Cloudy:</p>	<p>Data Entry Status:</p> <p>Data Src:</p> <p>Date Received: 8/31/2009</p> <p>Selected Flag: Yes</p> <p>Abandonment Rec:</p> <p>Contractor: 1844</p> <p>Form Version: 5</p> <p>Owner:</p> <p>Street Name: 788 MARCH ROAD</p> <p>County: OTTAWA-CARLETON</p> <p>Municipality: OTTAWA CITY</p> <p>Site Info:</p> <p>Lot:</p> <p>Concession:</p> <p>Concession Name:</p> <p>Easting NAD83:</p> <p>Northing NAD83:</p> <p>Zone:</p> <p>UTM Reliability:</p>
---	--

Bore Hole Information

<p>Bore Hole ID: 1002697162</p> <p>DP2BR:</p> <p>Spatial Status:</p> <p>Code OB:</p> <p>Code OB Desc:</p> <p>Open Hole: N</p> <p>Cluster Kind:</p> <p>Date Completed: 18-JUN-09</p> <p>Remarks:</p> <p>Elevrc Desc:</p> <p>Location Source Date:</p> <p>Improvement Location Source:</p> <p>Improvement Location Method:</p> <p>Source Revision Comment:</p> <p>Supplier Comment:</p>	<p>Elevation: 75.6</p> <p>Elevrc:</p> <p>Zone: 18</p> <p>East83: 427003</p> <p>Org CS: UTM83</p> <p>North83: 5022819</p> <p>UTMRC: 4</p> <p>UTMRC Desc: margin of error : 30 m - 100 m</p> <p>Location Method: wwr</p>
--	---

Overburden and Bedrock Materials Interval

Formation ID:	1002817527
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Other Materials:					
Formation Top Depth:		1.8			
Formation End Depth:		5.7			
Formation End Depth UOM:		m			
Formation ID: 1002817525					
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.2			
Formation End Depth UOM:		m			
Formation ID: 1002817526					
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		61			
Other Materials:		CLAYEY			
Formation Top Depth:		.2			
Formation End Depth:		1.8			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID: 1002817529					
Layer:		1			
Plug From:		0			
Plug To:		2			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID: 1002817533					
Method Construction Code:		F			
Method Construction:		H.S.A.			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID: 1002817524					
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID: 1002817530					
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		2.7			
Casing Diameter:		5.1			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1002817531			
Layer:		1			
Slot:		10			
Screen Top Depth:					
Screen End Depth:					
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		5.8			
<u>Hole Diameter</u>					
Hole ID:		1002817528			
Diameter:		20			
Depth From:		0			
Depth To:		5.7			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Bore Hole Information</u>					
Bore Hole ID:	1002817506	Elevation:	76.39		
DP2BR:		Elevrc:			
Spatial Status:		Zone:	18		
Code OB:		East83:	427078		
Code OB Desc:		Org CS:	UTM83		
Open Hole:		North83:	5022728		
Cluster Kind:	This is a record from cluster log sheet	UTMRC:	3		
Date Completed:	18-JUN-09	UTMRC Desc:	margin of error : 10 - 30 m		
Remarks:		Location Method:	wwr		
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1002817510			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1002817509			
Method Construction Code:					
Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Method Construction:		HSA			
<u>Pipe Information</u>					
Pipe ID:		1002817511			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1002817513			
Layer:					
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		2.8			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1002817512			
Layer:					
Slot:					
Screen Top Depth:		2.8			
Screen End Depth:		5.8			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1002817514			
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:					
<u>Hole Diameter</u>					
Hole ID:		1002817508			
Diameter:		20			
Depth From:					
Depth To:		5.8			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	1002817515			Elevation:	72.84
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	427059
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5022822
Cluster Kind:	This is a record from cluster log sheet			UTMRC:	3
Date Completed:	19-JUN-09			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1002817519				
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1002817518				
Method Construction Code:					
Method Construction:					
Other Method Construction:	HSA				
<u>Pipe Information</u>					
Pipe ID:	1002817520				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1002817522				
Layer:					
Material:	5				
Open Hole or Material:	PLASTIC				
Depth From:					
Depth To:	2.6				
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:	m				
<u>Construction Record - Screen</u>					
Screen ID:	1002817521				
Layer:					
Slot:					
Screen Top Depth:	2.6				
Screen End Depth:	5.7				
Screen Material:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Depth UOM: Screen Diameter UOM: Screen Diameter:		m			
<u>Results of Well Yield Testing</u>					
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:		1002817523			
<u>Hole Diameter</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:		1002817517 20 5.7 m cm			

<u>1</u>	2 of 2	-/0.0	73.5 / -0.64	KANATA ON	WWIS
Well ID: Construction Date: 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: Flowing (Y/N): Flow Rate: Clear/Cloudy:	7141731	Abandoned Monitoring and Test Hole	M05569 A074647	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	3/19/2010 Yes 1844 5 788 MARCH RD OTTAWA-CARLETON MARCH TOWNSHIP
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status:	1002951127			Elevation: Elevrc: Zone:	75.6 18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB:				East83:	427003
Code OB Desc:				Org CS:	UTM83
Open Hole:	N			North83:	5022819
Cluster Kind:				UTMRC:	4
Date Completed:	15-FEB-10			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:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1003285106			
Layer:		1			
Plug From:		0			
Plug To:		5.7			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1003285107			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Hole Diameter</u>					
Hole ID:		1003285105			
Diameter:		20			
Depth From:		0			
Depth To:		5.7			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Bore Hole Information</u>					
Bore Hole ID:		1003285101		Elevation:	72.84
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	427059
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5022822
Cluster Kind:	This is a record from cluster log sheet			UTMRC:	4
Date Completed:	15-FEB-10			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:					
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1003285104			
Method Construction Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction:					
Other Method Construction:					
<u>Hole Diameter</u>					
Hole ID:		1003285103			
Diameter:					
Depth From:					
Depth To:		5.7			
Hole Depth UOM:		m			
Hole Diameter UOM:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1003285096			Elevation:	76.39
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	427078
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5022728
Cluster Kind:	This is a record from cluster log sheet			UTMRC:	4
Date Completed:	15-FEB-10			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:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1003285100			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1003285099			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Hole Diameter</u>					
Hole ID:		1003285098			
Diameter:					
Depth From:					
Depth To:		5.8			
Hole Depth UOM:		m			
Hole Diameter UOM:					

2

1 of 1

-0.0

75.5 / 1.37

Imperial Oil Limited
1092 Klondike Road and 788 March Road,
Kanata, Ontario K2K 1X7
Kanata ON K2K 1X7

RSC

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Reg No:	63910			Cert Date:	25-Jun-09
RA No:				Cert Prop Use No:	No CPU
RSC Type:				Intended Prop Use:	Community
Curr Property Use:	Agriculture/Other			Nm of Qual. Person:	Ed Charlton
District Office:	OTTAWA			Stratified (Y/N):	
Date Submitted:	29-Jan-10			Audit (Y/N):	
Date Ack:				Entire Leg Prop. (Y/N):	No
Date Returned:				Accuracy Estimate:	21 to 100 meters
Restoration Type:				Telephone:	416-4417389
Soil Type:				Fax:	416-4417400
Criteria:				Email:	ed.m.charlton@esso.ca
CPU Issued Sect 1686:	No				
Asmt Roll No:		06-14-300-816-22700			
Prop. ID No:		04517-0801(LT)			
Property Municipal Address:		1092 Klondike Road and 788 March Road, Kanata, Ontario K2K 1X7			
Mailing Address:		90 WYNFORD AVE, TORONTO, ON, M3C 1K5			
Latitude & Longitude:		45.35480640N 75.93137370W (converted from UTM)			
UTM Coordinates:		NAD83 18-427048-5022788			
Consultant:					
Filing Owner:					
Legal Desc:		Entire Legal Description: Part of Lot 10, Concession 4, as in N6B1746, save and except Part 1, Plan 4D95; Kanata. RSC Legal Description: Part of Lot 10, Concession 4, Geographic Township of March, being Part 1, 4R-24176, Ottawa.			
Measurement Method:		Digitized from a map			
Applicable Standards:		Full Depth Site Conditions Standard, with Potable Ground Water, Medium/Fine Textured Soil, for Industrial/Commercial/Community property use			
RSC PDF:					

<u>3</u>	1 of 1	-/0.0	75.8 / 1.66	788 March Road Kanata ON	EHS
Order ID:	164958			Date Received:	6/1/2009
Order No:	20090601011			Lot/Building Size:	
Customer ID:	77347			Municipality:	
Company ID:	268			Client Prov/State:	ON
Status:	C			Search Radius (km):	0.25
Report Code:	3CAN			Large Radius:	2
Report Type:	Standard Report			X:	-75.931602
Report Date:	6/4/2009			Y:	45.355116
Report Requested by:	O'Connor Associates				
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:	Fire Insur. Maps and/or Sire Plans				

<u>4</u>	1 of 1	NNW/18.6	71.7 / -2.46	Klondike Rd & March Rd Ottawa ON	EHS
Order ID:	428037			Date Received:	07-OCT-15
Order No:	20151007070			Lot/Building Size:	
Customer ID:	67187			Municipality:	
Company ID:	56			Client Prov/State:	ON
Status:	C			Search Radius (km):	.25
Report Code:	3CAN			Large Radius:	.3
Report Type:	Standard Report			X:	-75.931431
Report Date:	09-OCT-15			Y:	45.355755
Report Requested by:	Stantec Consulting Ltd.				
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>5</u>	1 of 1	W/23.0	80.6 / 6.45	lot 10 con 4 ON	WWIS
Well ID:		1503411		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 3/5/1956	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 3705	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 010	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		10025454		Elevation: 76.52	
DP2BR:		18		Elevrc:	
Spatial Status:				Zone: 18	
Code OB:		r		East83: 427000.6	
Code OB Desc:		Bedrock		Org CS:	
Open Hole:				North83: 5022792	
Cluster Kind:				UTMRC: 9	
Date Completed:		02-NOV-55		UTMRC Desc: unknown UTM	
Remarks:				Location Method: p9	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930996768			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		02			
Other Materials:		TOPSOIL			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		18			
Formation End Depth UOM:		ft			
Formation ID:		930996769			
Layer:		2			
Color:					
General Color:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		18			
Formation End Depth:		80			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961503411			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10574024			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930043658			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		80			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930043657			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		35			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991503411			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration HR: Pumping Duration MIN: Flowing: Y					
<u>Water Details</u>					
Water ID: 933456315 Layer: 1 Kind Code: 1 Kind: FRESH Water Found Depth: 60 Water Found Depth UOM: ft					
<u>6</u>	1 of 2	WSW/27.1	80.6 / 6.45	ON	BORE
Borehole ID: 609813 Use: Drill Method:: Easting:: 427011 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 20.4 Township:: Lot:: Completion Date:: APR-1971 Primary Water Use::					
Type: Borehole Status:: UTM Zone:: 18 Northing:: 5022772 Orig. Ground Elev m:: 77.7 DEM Ground Elev m:: 76.1 Primary Name:: Concession:: Municipality: Static Water Level:: -13 Sec. Water Use::					
--Details--					
Stratum ID: 218384154 Bottom Depth(m): 0.9 Stratum ID: 218384155 Bottom Depth(m): 6.1 Stratum ID: 218384156 Bottom Depth(m): 6.4 Stratum ID: 218384157 Bottom Depth(m): 20.4					
Top Depth(m): 0.0 Stratum Desc: SOIL. Top Depth(m): 0.9 Stratum Desc: CLAY. Top Depth(m): 6.1 Stratum Desc: GRAVEL. Top Depth(m): 6.4 Stratum Desc: SANDSTONE. WHITE. 00067. WATER STABLE AT 298.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE.					
<u>6</u>	2 of 2	WSW/27.1	80.6 / 6.45	lot 10 con 4 ON	WWIS
Well ID: 1511120 Construction Date: Primary Water Use: Domestic Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate:					
Data Entry Status: Data Src: 1 Date Received: 4/21/1971 Selected Flag: Yes Abandonment Rec: Contractor: 3504 Form Version: 1 Owner: Street Name: County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: 010 Concession: 04 Concession Name: CON Easting NAD83:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10033117			Elevation:	76.09
DP2BR:	21			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	427010.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5022772
Cluster Kind:				UTMRC:	4
Date Completed:	02-APR-71			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931016739				
Layer:	4				
Color:	1				
General Color:	WHITE				
Mat1:	18				
Most Common Material:	SANDSTONE				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	21				
Formation End Depth:	67				
Formation End Depth UOM:	ft				
Formation ID:	931016738				
Layer:	3				
Color:					
General Color:					
Mat1:	11				
Most Common Material:	GRAVEL				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	20				
Formation End Depth:	21				
Formation End Depth UOM:	ft				
Formation ID:	931016736				
Layer:	1				
Color:					
General Color:					
Mat1:	02				
Most Common Material:	TOPSOIL				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:	0				
Formation End Depth:	3				
Formation End Depth UOM:	ft				
Formation ID:	931016737				
Layer:	2				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	3				
Formation End Depth:	20				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	961511120				
Method Construction Code:	1				
Method Construction:	Cable Tool				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10581687				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930058765				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	67				
Casing Diameter:					
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
Casing ID:	930058764				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	24				
Casing Diameter:	6				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	991511120				
Pump Set At:					
Static Level:	0				
Final Level After Pumping:	5				
Recommended Pump Depth:	30				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097658			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		0			
Test Level UOM:		ft			
Pump Test Detail ID:		934380671			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		0			
Test Level UOM:		ft			
Pump Test Detail ID:		934899728			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		0			
Test Level UOM:		ft			
Pump Test Detail ID:		934642804			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933466196			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		62			
Water Found Depth UOM:		ft			
Water ID:		933466197			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		67			
Water Found Depth UOM:		ft			
7	1 of 1	W/50.5	80.2 / 6.04	R.M. OF OTTAWA-CARLETON MARCH RD./KLONDIKE RD. (SWM) KANATA CITY ON	CA
Certificate #:		3-0836-97-			
Application Year:		97			
Issue Date:		8/11/1997			
Approval Type:		Municipal sewage			
Status:		Approved			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
<u>8</u>	1 of 2	NNW/62.7	71.7 / -2.49	ON	BORE
Borehole ID:	609816			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	427011			Northing::	5022922
Location Accuracy::				Orig. Ground Elev m::	79.2
Elev. Reliability Note::				DEM Ground Elev m::	71.1
Total Depth m::	19.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1969			Static Water Level::	-11
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218384161			Top Depth(m):	0.0
Bottom Depth(m):	9.1			Stratum Desc:	CLAY. BROWN.
Stratum ID:	218384162			Top Depth(m):	9.1
Bottom Depth(m):	15.2			Stratum Desc:	SANDSTONE. BROWN.
Stratum ID:	218384163			Top Depth(m):	15.2
Bottom Depth(m):	19.2			Stratum Desc:	LIMESTONE. WHITE. 00060STABLE AT 298.0 FEET. BLACK. LIMESTONE. BLUE. SANDSTONE. BLACK.
<u>8</u>	2 of 2	NNW/62.7	71.7 / -2.49	lot 11 con 4 ON	WWIS
Well ID:	1510450			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	1/21/1970
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4724
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	011
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10032478			Elevation:	71.1
DP2BR:	30			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	427010.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5022922
Cluster Kind:				UTMRC:	4
Date Completed:	26-AUG-69			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock Materials Interval

Formation ID: 931014923
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 30
Formation End Depth UOM: ft

Formation ID: 931014925
Layer: 3
Color: 1
General Color: WHITE
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 50
Formation End Depth: 63
Formation End Depth UOM: ft

Formation ID: 931014924
Layer: 2
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 30
Formation End Depth: 50
Formation End Depth UOM: ft

Method of Construction & Well Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		961510450			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10581048			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930057543			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991510450			
Pump Set At:					
Static Level:		20			
Final Level After Pumping:		30			
Recommended Pump Depth:					
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097101			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		30			
Test Level UOM:		ft			
Pump Test Detail ID:		934640578			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		30			
Test Level UOM:		ft			
Pump Test Detail ID:		934897501			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		30			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		ft			
Pump Test Detail ID:		934378445			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		30			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933465442			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		49			
Water Found Depth UOM:		ft			
Water ID:		933465443			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60			
Water Found Depth UOM:		ft			

<u>9</u>	1 of 1	NW/63.7	75.5 / 1.34	lot 11 con 4 KANATA ON	WWIS
Well ID:		1536815		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received: 11/17/2006	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Abandoned-Other		Abandonment Rec: Yes	
Water Type:				Contractor: 1558	
Casing Material:				Form Version: 3	
Audit No:		Z47085		Owner:	
Tag:				Street Name: MARCH RD	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 011	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		11691909		Elevation: 74	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:		_		East83: 426982	
Code OB Desc:		No formation data		Org CS: UTM83	
Open Hole:				North83: 5022898	
Cluster Kind:				UTMRC: 3	
Date Completed:		26-SEP-06		UTMRC Desc: margin of error : 10 - 30 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					

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

Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID: 933286605
Layer: 1
Plug From: 11.12
Plug To: 0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536815
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11696775
Casing No: 1
Comment:
Alt Name:

10	1 of 1	W/80.4	80.1 / 5.97	lot 11 con 3 ON	WWIS
--------------------	--------	--------	-------------	-----------------	------

Well ID:	1518190	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Municipal	Date Received:	4/5/1983
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	MARCH TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	011
Well Depth:		Concession:	03
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10040060	Elevation:	77.22
DP2BR:	20	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426929.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5022821
Cluster Kind:		UTMRC:	4
Date Completed:	14-JUN-82	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931037654			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		18			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
Formation ID:		931037653			
Layer:		1			
Color:		5			
General Color:		YELLOW			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		18			
Formation End Depth UOM:		ft			
Formation ID:		931037655			
Layer:		3			
Color:		1			
General Color:		WHITE			
Mat1:		21			
Most Common Material:		GRANITE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		20			
Formation End Depth:		35			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961518190			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10588630			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Casing No:</i>	1				
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>	930069954				
<i>Layer:</i>	2				
<i>Material:</i>	4				
<i>Open Hole or Material:</i>	OPEN HOLE				
<i>Depth From:</i>					
<i>Depth To:</i>	35				
<i>Casing Diameter:</i>	6				
<i>Casing Diameter UOM:</i>	inch				
<i>Casing Depth UOM:</i>	ft				
<i>Casing ID:</i>	930069953				
<i>Layer:</i>	1				
<i>Material:</i>	1				
<i>Open Hole or Material:</i>	STEEL				
<i>Depth From:</i>					
<i>Depth To:</i>	24				
<i>Casing Diameter:</i>	6				
<i>Casing Diameter UOM:</i>	inch				
<i>Casing Depth UOM:</i>	ft				
<u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>	991518190				
<i>Pump Set At:</i>					
<i>Static Level:</i>	11				
<i>Final Level After Pumping:</i>	30				
<i>Recommended Pump Depth:</i>	30				
<i>Pumping Rate:</i>	80				
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>	80				
<i>Levels UOM:</i>	ft				
<i>Rate UOM:</i>	GPM				
<i>Water State After Test Code:</i>	1				
<i>Water State After Test:</i>	CLEAR				
<i>Pumping Test Method:</i>	1				
<i>Pumping Duration HR:</i>	1				
<i>Pumping Duration MIN:</i>	0				
<i>Flowing:</i>	N				
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>	934103509				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	15				
<i>Test Level:</i>	11				
<i>Test Level UOM:</i>	ft				
<i>Pump Test Detail ID:</i>	934378261				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	30				
<i>Test Level:</i>	11				
<i>Test Level UOM:</i>	ft				
<i>Pump Test Detail ID:</i>	934897363				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	60				
<i>Test Level:</i>	11				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		ft			
Pump Test Detail ID:		934639319			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		11			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933474849			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		35			
Water Found Depth UOM:		ft			
11	1 of 1	NNE/81.1	77.2 / 3.06	lot 10 con 4 ON	WWIS
Well ID:		1519081		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 8/7/1984	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 1558	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 010	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		10040951		Elevation: 76.36	
DP2BR:		31		Elevrc:	
Spatial Status:				Zone: 18	
Code OB:		r		East83: 427129.6	
Code OB Desc:		Bedrock		Org CS:	
Open Hole:				North83: 5022921	
Cluster Kind:				UTMRC: 4	
Date Completed:		10-JUL-84		UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:				Location Method: p4	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931040536			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Other Materials:		SAND			
Mat3:		12			
Other Materials:		STONES			
Formation Top Depth:		8			
Formation End Depth:		31			
Formation End Depth UOM:		ft			
Formation ID:		931040537			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:		78			
Other Materials:		MEDIUM-GRAINED			
Mat3:		85			
Other Materials:		SOFT			
Formation Top Depth:		31			
Formation End Depth:		81			
Formation End Depth UOM:		ft			
Formation ID:		931040535			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		77			
Other Materials:		LOOSE			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		8			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961519081			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10589521			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930071494			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		81			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930071493			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		32			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991519081			
Pump Set At:					
Static Level:		17			
Final Level After Pumping:		30			
Recommended Pump Depth:		50			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934651620			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		30			
Test Level UOM:		ft			
Pump Test Detail ID:		934901149			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		30			
Test Level UOM:		ft			
Pump Test Detail ID:		934106901			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		30			
Test Level UOM:		ft			
Pump Test Detail ID:		934381642			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		30			
Test Level UOM:		ft			

Water Details

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		933475962			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		77			
Water Found Depth UOM:		ft			

12	1 of 1	NW/87.3	72.7 / -1.45	lot 11 con 4 KANATA ON	WWIS
Well ID:	7147352			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	6/25/2010
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1119
Casing Material:				Form Version:	7
Audit No:	Z108317			Owner:	
Tag:	A093683			Street Name:	1095 KLONDIKE RD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	011
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	1003074984	Elevation:	72.31
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	426979
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5022927
Cluster Kind:		UTMRC:	4
Date Completed:	30-APR-10	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1003194962
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		28			
Formation End Depth UOM:		ft			
Formation ID:		1003194961			
Layer:		2			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		13			
Other Materials:		BOULDERS			
Formation Top Depth:		10			
Formation End Depth:		18			
Formation End Depth UOM:		ft			
Formation ID:		1003194960			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		13			
Other Materials:		BOULDERS			
Formation Top Depth:		0			
Formation End Depth:		10			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1003194965			
Layer:		2			
Plug From:		10			
Plug To:		0			
Plug Depth UOM:		ft			
Plug ID:		1003194964			
Layer:		1			
Plug From:		20			
Plug To:		10			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1003194986			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1003194958			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		1003194968			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		20			
Depth To:		28			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		1003194967			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		2			
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1003194969			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1003194959			
Pump Set At:		20			
Static Level:		9.417			
Final Level After Pumping:		15.667			
Recommended Pump Depth:		20			
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003194971			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		9.417			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194974			
Test Type:		Draw Down			
Test Duration:		4			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194978			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		15.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194981			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		15.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194982			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		15.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194983			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		15.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194973			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194979			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		15.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194970			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194984			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		9.417			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194975			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194976			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		13.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194977			
Test Type:		Draw Down			
Test Duration:		15			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		15.167			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194980			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		15.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003194972			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		13.583			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		1003194966			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		23			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1003194963			
Diameter:		6			
Depth From:		0			
Depth To:		28			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
13	1 of 2	WNW/87.5	79.9 / 5.69	ON	BORE
Borehole ID:	609814			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	426931			Northing::	5022872
Location Accuracy::				Orig. Ground Elev m::	78
Elev. Reliability Note::				DEM Ground Elev m::	77.3
Total Depth m::	14.6			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1955			Static Water Level::	-12
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218384158			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	SOIL.
Stratum ID:	218384159			Top Depth(m):	0.3
Bottom Depth(m):	5.5			Stratum Desc:	CLAY. BLUE.
Stratum ID:	218384160			Top Depth(m):	5.5
Bottom Depth(m):	14.6			Stratum Desc:	SANDSTONE. GREY. 000400067. WATER STABLE AT 298.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTO

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	2 of 2	WNW/87.5	79.9 / 5.69	lot 11 con 4 ON	WWIS
Well ID:		1503412		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 11/24/1955	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 2415	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 011	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		10025455		Elevation: 77.33	
DP2BR:		18		Elevrc:	
Spatial Status:				Zone: 18	
Code OB:		r		East83: 426930.6	
Code OB Desc:		Bedrock		Org CS:	
Open Hole:				North83: 5022872	
Cluster Kind:				UTMRC: 5	
Date Completed:		12-NOV-55		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:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930996770			
Layer:		1			
Color:					
General Color:					
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		ft			
Formation ID:		930996771			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		1			
Formation End Depth:		18			
Formation End Depth UOM:		ft			
Formation ID:		930996772			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		18			
Formation End Depth:		48			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961503412			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10574025			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930043660			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		48			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930043659			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		21			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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:		991503412 6 22 5 ft GPM 1 CLEAR 1 0 30 N			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933456316 1 5 Not stated 28 ft			
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933456317 2 5 Not stated 40 ft			
14	1 of 2	W/89.4	80.1 / 5.97	J TIERNEY JIMS GAS BAR 1111 KLONDIKE RD LOT 11 CON 3 KANATA ON P7B 6C2	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		9818157 FS Facility EXPIRED 12/2/2009 13:34			
14	2 of 2	W/89.4	80.1 / 5.97	J TIERNEY JIMS GAS BAR 1111 KLONDIKE RD LOT 11 CON 3 KANATA ON	PRT
Location ID: Type: Expiry Date: Capacity (L): Licence #:		6727 retail 1990-12-31 0 0055662001			
15	1 of 5	W/102.2	81.9 / 7.69	2325225 Ontario Inc. 1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator No.:	ON8411031			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	NASTRAN NAJAFI-FARD
MHSW Facility:	No			Phone No. Admin:	4164931120 Ext.3218
SIC Code:	446110				
SIC Description:	446110				
--Details--					
Waste Code:	261				
Waste Description:	PHARMACEUTICALS				
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
15	2 of 5	W/102.2	81.9 / 7.69	2325225 Ontario Inc. 1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	GEN
Generator No.:	ON8411031			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2017			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					
--Details--					
Waste Code:	261 A				
Waste Description:	Pharmaceuticals				
Waste Code:	312 P				
Waste Description:	Pathological wastes				
15	3 of 5	W/102.2	81.9 / 7.69	G.G. Pharmacy Inc. 1102 KLONDIKE ROAD, R R #1 KANATA ON K2K 1X7	GEN
Generator No.:	ON8411031			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	NASTRAN NAJAFI-FARD
MHSW Facility:	No			Phone No. Admin:	4164931120 Ext.3218
SIC Code:	446110				
SIC Description:	446110				
--Details--					
Waste Code:	261				
Waste Description:	PHARMACEUTICALS				
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
15	4 of 5	W/102.2	81.9 / 7.69	G.G PHARMACY INC. 1102 KLONDIKE RD KANATA ON K2K1X7	PES
Licence No:	14783			Operator Box:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Detail Licence No: Licence Type Code: 23 Licence Type: Active Limited Vendors Licence Class: 01 Licence Control: Trade Name: Post Office Box: Lot: Concession: Region: District: County:				Operator Class: Operator No: Operator Type: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Oper Phone Area Cd: 613 Ext: Oper Phone No: 5926010 Proponent Ext:	

15	5 of 5	W/102.2	81.9 / 7.69	G.G PHARMACY INC. 1102 KLONDIKE RD KANATA ON K2K 0G1	PES
Licence No: Detail Licence No: Licence Type Code: Licence Type: Vendor Licence Class: Licence Control: Trade Name: Post Office Box: Lot: Concession: Region: District: County:				Operator Box: Operator Class: Operator No: Operator Type: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Oper Phone Area Cd: Ext: Oper Phone No: Proponent Ext:	

16	1 of 1	WSW/120.9	83.3 / 9.11	lot 10 con 3 ON	WWIS
Well ID: 1503347 Construction Date: Primary Water Use: Commerical Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Data Entry Status: Data Src: 1 Date Received: 3/28/1966 Selected Flag: Yes Abandonment Rec: Contractor: 4216 Form Version: 1 Owner: Street Name: County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: 010 Concession: 03 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID: 10025390 DP2BR: 5 Spatial Status: Code OB: r				Elevation: 78.03 Elevrc: Zone: 18 East83: 426915.6	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5022742
Cluster Kind:				UTMRC:	5
Date Completed:	25-FEB-66			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:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930996634			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		5			
Formation End Depth UOM:		ft			
Formation ID:		930996635			
Layer:		2			
Color:					
General Color:					
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		5			
Formation End Depth:		82			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961503347			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573960			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930043532			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930043533			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		82			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991503347			
Pump Set At:					
Static Level:		35			
Final Level After Pumping:		40			
Recommended Pump Depth:		75			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933456241			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		82			
Water Found Depth UOM:		ft			

[17](#) 1 of 11 SW/127.5 83.2 / 9.00 Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1 GEN

Generator No.:	ON9298734	PO Box No.:	
Status:	Registered	Country:	Canada
Approval Years:	As of Dec 2017	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:			
SIC Description:			

--Details--
Waste Code: 312 P
Waste Description: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	2 of 11	SW/127.5	83.2 / 9.00	INVIVA McKesson Pharma 1108 Klondike Road Unit A Kanata ON K2K 0G1	GEN
Generator No.:	ON3526988			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	na na
MHSW Facility:	No			Phone No. Admin:	na Ext.
SIC Code:	621390				
SIC Description:	OFFICES OF ALL OTHER HEALTH PRACTITIONERS				
--Details--					
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
Waste Code:	261				
Waste Description:	PHARMACEUTICALS				
17	3 of 11	SW/127.5	83.2 / 9.00	INVIVA McKesson Pharma INVIVA 1108 Klondike Road Unit A Kanata ON K2K 0G1	GEN
Generator No.:	ON3526988			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2017			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					
--Details--					
Waste Code:	261 A				
Waste Description:	Pharmaceuticals				
Waste Code:	312 P				
Waste Description:	Pathological wastes				
17	4 of 11	SW/127.5	83.2 / 9.00	INVIVA McKesson Pharma 1108 Klondike Road Unit A Kanata ON K2K 0G1	GEN
Generator No.:	ON3526988			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	na na
MHSW Facility:	No			Phone No. Admin:	na Ext.
SIC Code:	621390				
SIC Description:	OFFICES OF ALL OTHER HEALTH PRACTITIONERS				
--Details--					
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
17	5 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>Generator No.: ON9298734 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 621110 SIC Description: OFFICES OF PHYSICIANS</p> <p>PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No. Admin:</p>					
<p>--Details-- Waste Code: 312 Waste Description: PATHOLOGICAL WASTES</p>					
17	6 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN
<p>Generator No.: ON9298734 Status: Approval Years: 2015 Contam. Facility: No MHSW Facility: No SIC Code: 621110 SIC Description: OFFICES OF PHYSICIANS</p> <p>PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No. Admin:</p>					
<p>--Details-- Waste Code: 312 Waste Description: PATHOLOGICAL WASTES</p>					
17	7 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN
<p>Generator No.: ON9298734 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 621110 SIC Description: OFFICES OF PHYSICIANS</p> <p>PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No. Admin:</p>					
<p>--Details-- Waste Code: 312 Waste Description: PATHOLOGICAL WASTES</p>					
17	8 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN
<p>Generator No.: ON9298734 Status: Approval Years: 2010 Contam. Facility: MHSW Facility: SIC Code: 621110 SIC Description: Offices of Physicians</p> <p>PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
--Details--					
Waste Code:		312			
Waste Description:		PATHOLOGICAL WASTES			
17	9 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON	GEN
Generator No.:		ON9298734		PO Box No.:	
Status:				Country:	
Approval Years:		2013		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		621110			
SIC Description:		OFFICES OF PHYSICIANS			
--Details--					
Waste Code:		312			
Waste Description:		PATHOLOGICAL WASTES			
17	10 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN
Generator No.:		ON9298734		PO Box No.:	
Status:				Country:	
Approval Years:		2012		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		621110			
SIC Description:		Offices of Physicians			
--Details--					
Waste Code:		312			
Waste Description:		PATHOLOGICAL WASTES			
17	11 of 11	SW/127.5	83.2 / 9.00	Activecare klondike medical centre 1108 klondike rd. ottawa ON K2K0G1	GEN
Generator No.:		ON9298734		PO Box No.:	
Status:				Country:	
Approval Years:		2011		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		621110			
SIC Description:		Offices of Physicians			
--Details--					
Waste Code:		312			
Waste Description:		PATHOLOGICAL WASTES			
18	1 of 1	SSE/131.5	77.3 / 3.14	Blue Heron Co-operative Homes Inc. 750, 760 March Rd Kanata Ottawa ON K2K 2W4	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval No: Approval Date: Status: Record Type: Link Source: Approval Type: Project Type: Address: Full Address: Full PDF Link:	8636-6D4KSW 2005-06-14 Approved ECA IDS			SWP Area Name: MOE District: City: Longitude: Latitude: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 750, 760 March Rd Kanata https://www.accessenvironment.ene.gov.on.ca/instruments/6597-6CCPX-14.pdf	Ottawa

19	1 of 1	NW/134.3	73.9 / -0.31	lot 11 con 4 KANATA ON	WWIS
Well ID: Construction Date: 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: Flowing (Y/N): Flow Rate: Clear/Cloudy:	7147353 Domestic Water Supply Z108340 A093682			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	6/25/2010 Yes 1119 7 1095 KLONDIKE RD OTTAWA-CARLETON MARCH TOWNSHIP 011 04 CON

Bore Hole Information

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:	1003074986 30-APR-10	Elevation: Elevrc: Zone: East83: Org CS: North83: UTMRC: UTMRC Desc: Location Method:	74.55 18 426923 UTM83 5022940 4 margin of error : 30 m - 100 m wwr
--	-------------------------	--	---

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material:	1003195010 2 2 GREY 15 LIMESTONE
---	---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		16			
Formation End Depth:		23			
Formation End Depth UOM:		ft			
Formation ID:					
Layer:		1003195009			
Color:		1			
General Color:		2			
Mat1:		GREY			
Most Common Material:		05			
Mat2:		CLAY			
Other Materials:		11			
Mat3:		GRAVEL			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		16			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:					
Layer:		1003195013			
Plug From:		1			
Plug To:		18			
Plug Depth UOM:		0			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1003195034			
Method Construction:		5			
Other Method Construction:		Air Percussion			
<u>Pipe Information</u>					
Pipe ID:					
Casing No:		1003195007			
Comment:		0			
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:					
Layer:		1003195015			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		2			
Depth To:		18			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:					
Layer:		1003195016			
Material:		2			
Open Hole or Material:		4			
		OPEN HOLE			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Depth From:</i>		18			
<i>Depth To:</i>		23			
<i>Casing Diameter:</i>		5.6825			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
 <u>Construction Record - Screen</u>					
<i>Screen ID:</i>		1003195017			
<i>Layer:</i>					
<i>Slot:</i>					
<i>Screen Top Depth:</i>					
<i>Screen End Depth:</i>					
<i>Screen Material:</i>					
<i>Screen Depth UOM:</i>		ft			
<i>Screen Diameter UOM:</i>		inch			
<i>Screen Diameter:</i>					
 <u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>		1003195008			
<i>Pump Set At:</i>		18			
<i>Static Level:</i>		13.417			
<i>Final Level After Pumping:</i>		13.667			
<i>Recommended Pump Depth:</i>		18			
<i>Pumping Rate:</i>		20			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		20			
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		0			
<i>Water State After Test:</i>					
<i>Pumping Test Method:</i>		0			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>					
<i>Flowing:</i>					
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1003195027			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		13.667			
<i>Test Level UOM:</i>		ft			
<i>Pump Test Detail ID:</i>		1003195028			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		13.667			
<i>Test Level UOM:</i>		ft			
<i>Pump Test Detail ID:</i>		1003195030			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		13.667			
<i>Test Level UOM:</i>		ft			
<i>Pump Test Detail ID:</i>		1003195022			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		13.5			
<i>Test Level UOM:</i>		ft			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Pump Test Detail ID:		1003195023			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195026			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		13.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195021			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		13.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195025			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		13.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195032			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		13.417			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195018			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		13.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195019			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		13.417			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195024			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		13.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195020			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		13.5			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195029			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		13.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195031			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		13.667			
Test Level UOM:		ft			

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

Water Details

Water ID: 1003195014
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 21
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1003195011
Diameter: 6
Depth From: 0
Depth To: 18
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole ID: 1003195012
Diameter: 5.625
Depth From: 18
Depth To: 23
Hole Depth UOM: ft
Hole Diameter UOM: inch

20	1 of 2	SSE/145.4	78.5 / 4.34	Blue Heron Co-operative Homes Inc. 750, 760 March Road, Kanata Ottawa ON	CA
--------------------	--------	-----------	-------------	--	----

Certificate #: 8636-6D4KSW
Application Year: 2005
Issue Date: 6/14/2005
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::

20	2 of 2	SSE/145.4	78.5 / 4.34	Blue Heron Co-operative Homes Inc. 750, 760 March Road, Kanata Ottawa ON	CA
--------------------	--------	-----------	-------------	--	----

Certificate #: 1156-6DFHK5
Application Year: 2005
Issue Date: 6/29/2005
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::

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	1 of 1	WNW/150.8	78.8 / 4.61	lot 10 con 3 KANATA ON	WWIS
Well ID: 1536169 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Z39220 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Data Entry Status: Data Src: Date Received: 1/13/2006 Selected Flag: Yes Abandonment Rec: Yes Contractor: 1558 Form Version: 3 Owner: Street Name: 821 MARCH ROAD County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: 010 Concession: 03 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:			
<u>Bore Hole Information</u>					
Bore Hole ID: 11550235 DP2BR: Spatial Status: Code OB: Code OB Desc: No formation data Open Hole: Cluster Kind: Date Completed: 29-NOV-05 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:		Elevation: 77.53 Elevrc: Zone: 18 East83: 426870 Org CS: UTM83 North83: 5022891 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID: 933294848 Layer: 1 Plug From: 10.97 Plug To: 0 Plug Depth UOM: m					
<u>Method of Construction & Well Use</u>					
Method Construction ID: 961536169 Method Construction Code: Method Construction: Other Method Construction:					
<u>Pipe Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		11559842			
Casing No:		1			
Comment:					
Alt Name:					
22	1 of 1	ENE/160.9	79.9 / 5.75	351 Sandhill Rd Ottawa ON K2K1X7	EHS
Order ID:	487628			Date Received:	18-NOV-16
Order No:	20161118096			Lot/Building Size:	2.02 acres
Customer ID:	88789			Municipality:	
Company ID:	25907			Client Prov/State:	ON
Status:	C			Search Radius (km):	.25
Report Code:	2CAN			Large Radius:	.3
Report Type:	Standard Select Report			X:	-75.928572
Report Date:	25-NOV-16			Y:	45.355996
Report Requested by:	LRL Associates Ltd.				
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; Topographic Maps; City Directory				
23	1 of 1	SSE/161.8	78.0 / 3.81	Blue Heron Co-operative Homes Inc. 750 March Rd Kanata Ottawa ON K2K 2W4	ECA
Approval No:	1156-6DFHK5			SWP Area Name:	
Approval Date:	2005-06-29			MOE District:	
Status:	Approved			City:	Ottawa
Record Type:	ECA			Longitude:	
Link Source:	IDS			Latitude:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Address:	750 March Rd Kanata				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/9690-6CCPZL-14.pdf				
24	1 of 1	NW/171.4	72.8 / -1.36	lot 11 con 4 KANATA ON	WWIS
Well ID:	7147354			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	6/25/2010
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1119
Casing Material:				Form Version:	7
Audit No:	Z108342			Owner:	
Tag:	A095989			Street Name:	1095 KLONDIKE RD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	011
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	1003075040			Elevation:	72.53
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	426929
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5022995
Cluster Kind:				UTMRC:	4
Date Completed:	30-APR-10			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

**Overburden and Bedrock
Materials Interval**

Formation ID: 1003195081
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 19
Formation End Depth UOM: ft

Formation ID: 1003195082
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 19
Formation End Depth: 29
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 1003195085
Layer: 1
Plug From: 22
Plug To: 0
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 1003195106
Method Construction Code: 5
Method Construction: Air Percussion

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

Other Method Construction:

Pipe Information

Pipe ID: 1003195079
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003195087
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 2
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 1003195088
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 22
Depth To: 29
Casing Diameter: 5.6825
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1003195089
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1003195080
Pump Set At: 20
Static Level: 17.667
Final Level After Pumping: 21.25
Recommended Pump Depth: 20
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003195093			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		19.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195096			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		21.083			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195102			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		21.167			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195104			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		17.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195091			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		17.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195103			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		21.25			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195092			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		19.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195095			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		19.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195097			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		21.083			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195099			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		21.167			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195100			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		21.167			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		ft			
Pump Test Detail ID:		1003195094			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		19.667			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195090			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		19.583			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195098			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		21.083			
Test Level UOM:		ft			
Pump Test Detail ID:		1003195101			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		21.167			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		1003195086			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		22			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1003195084			
Diameter:		.3125			
Depth From:		22			
Depth To:		29			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
Hole ID:		1003195083			
Diameter:		6			
Depth From:		0			
Depth To:		22			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

25 1 of 1 **NNW/188.5** **80.7 / 6.50** **1055 & 1075 Klondike Rd**
Ottawa ON **EHS**

Order ID:	434245	Date Received:	20-NOV-15
Order No:	20151120038	Lot/Building Size:	
Customer ID:	77170	Municipality:	
Company ID:	97	Client Prov/State:	ON
Status:	C	Search Radius (km):	.25
Report Code:	4CAN	Large Radius:	.3
Report Type:	Custom Report	X:	-75.931738
Report Date:	26-NOV-15	Y:	45.357299
Report Requested by:	exp Services Inc.		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:		City Directory			

26	1 of 2	NE/193.5	79.9 / 5.72	ON	BORE
Borehole ID:	609817			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	427226			Northing::	5022982
Location Accuracy::				Orig. Ground Elev m::	76.2
Elev. Reliability Note::				DEM Ground Elev m::	75.8
Total Depth m::	15.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1968			Static Water Level::	-14
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218384164			Top Depth(m):	0.0
Bottom Depth(m):	2.7			Stratum Desc:	SAND.
Stratum ID:	218384165			Top Depth(m):	2.7
Bottom Depth(m):	8.5			Stratum Desc:	CLAY. BLUE.
Stratum ID:	218384166			Top Depth(m):	8.5
Bottom Depth(m):	15.2			Stratum Desc:	SANDSTONE. 00047E. WHITE. 00060STABLE AT 298.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTO

26	2 of 2	NE/193.5	79.9 / 5.72	lot 10 con 4 ON	WWIS
Well ID:	1509908			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/8/1968
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3553
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	010
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10031940			Elevation:	75.78
DP2BR:	28			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	427225.6

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5022982
Cluster Kind:				UTMRC:	4
Date Completed:	27-AUG-68			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

**Overburden and Bedrock
Materials Interval**

Formation ID: 931013370
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 9
Formation End Depth: 28
Formation End Depth UOM: ft

Formation ID: 931013371
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 28
Formation End Depth: 50
Formation End Depth UOM: ft

Formation ID: 931013369
Layer: 1
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 9
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961509908
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

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

Pipe Information

Pipe ID: 10580510
 Casing No: 1
 Comment:
 Alt Name:

Construction Record - Casing

Casing ID: 930056508
 Layer: 1
 Material: 1
 Open Hole or Material: STEEL
 Depth From:
 Depth To: 31
 Casing Diameter: 6
 Casing Diameter UOM: inch
 Casing Depth UOM: ft

Casing ID: 930056509
 Layer: 2
 Material: 4
 Open Hole or Material: OPEN HOLE
 Depth From:
 Depth To: 50
 Casing Diameter: 6
 Casing Diameter UOM: inch
 Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991509908
 Pump Set At:
 Static Level: 18
 Final Level After Pumping: 25
 Recommended Pump Depth: 30
 Pumping Rate: 8
 Flowing Rate:
 Recommended Pump Rate: 6
 Levels UOM: ft
 Rate UOM: GPM
 Water State After Test Code: 1
 Water State After Test: CLEAR
 Pumping Test Method: 1
 Pumping Duration HR: 1
 Pumping Duration MIN: 0
 Flowing: N

Water Details

Water ID: 933464803
 Layer: 1
 Kind Code: 1
 Kind: FRESH
 Water Found Depth: 47
 Water Found Depth UOM: ft

27	1 of 1	NE/197.2	79.9 / 5.73	lot 10 con 4 KANATA ON	WWIS
Well ID:	1536259	Data Entry Status:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	3/20/2006
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1558
Casing Material:				Form Version:	3
Audit No:	Z39252			Owner:	
Tag:	A035430			Street Name:	351 SANDHILL RD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	010
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	11550325	Elevation:	75.39
DP2BR:	32	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	427282
Code OB Desc:	Bedrock	Org CS:	UTM83
Open Hole:		North83:	5022953
Cluster Kind:		UTMRC:	3
Date Completed:	01-FEB-06	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	933044822
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	3.65
Formation End Depth UOM:	m
Formation ID:	933044824
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		9.75			
Formation End Depth:		38.09			
Formation End Depth UOM:		m			
Formation ID:		933044823			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Other Materials:		STONES			
Mat3:					
Other Materials:					
Formation Top Depth:		3.65			
Formation End Depth:		9.75			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933288174			
Layer:		1			
Plug From:		11.88			
Plug To:		0			
Plug Depth UOM:		m			
Plug ID:		933288175			
Layer:		2			
Plug From:					
Plug To:					
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961536259			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11559932			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930875664			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-.45			
Depth To:		11.88			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
Casing ID:		930875665			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		11.88			
Depth To:		38.09			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11569389			
Pump Set At:		22.85			
Static Level:		2.45			
Final Level After Pumping:		4.02			
Recommended Pump Depth:		22.85			
Pumping Rate:		54.6			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:					
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11593807			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		2.97			
Test Level UOM:		m			
Pump Test Detail ID:		11593809			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		2.85			
Test Level UOM:		m			
Pump Test Detail ID:		11593825			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		2.51			
Test Level UOM:		m			
Pump Test Detail ID:		11593826			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		4.01			
Test Level UOM:		m			
Pump Test Detail ID:		11593814			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		3.81			
Test Level UOM:		m			
Pump Test Detail ID:		11593820			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		3.93			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
Pump Test Detail ID:		11593817			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		2.83			
Test Level UOM:		m			
Pump Test Detail ID:		11593822			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		3.99			
Test Level UOM:		m			
Pump Test Detail ID:		11593815			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		2.55			
Test Level UOM:		m			
Pump Test Detail ID:		11593816			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		3.88			
Test Level UOM:		m			
Pump Test Detail ID:		11593823			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		2.51			
Test Level UOM:		m			
Pump Test Detail ID:		11593824			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		4.01			
Test Level UOM:		m			
Pump Test Detail ID:		11593806			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		3.43			
Test Level UOM:		m			
Pump Test Detail ID:		11593808			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		3.55			
Test Level UOM:		m			
Pump Test Detail ID:		11593821			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		2.52			
Test Level UOM:		m			
Pump Test Detail ID:		11593803			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		3.34			
Test Level UOM:		m			
Pump Test Detail ID:		11593810			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		3.64			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
Pump Test Detail ID:		11593811			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		2.71			
Test Level UOM:		m			
Pump Test Detail ID:		11593812			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		3.73			
Test Level UOM:		m			
Pump Test Detail ID:		11593818			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		3.91			
Test Level UOM:		m			
Pump Test Detail ID:		11593805			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		3.12			
Test Level UOM:		m			
Pump Test Detail ID:		11593813			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		2.61			
Test Level UOM:		m			
Pump Test Detail ID:		11593802			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		3.3			
Test Level UOM:		m			
Pump Test Detail ID:		11593804			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		3.38			
Test Level UOM:		m			
Pump Test Detail ID:		11593819			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		2.52			
Test Level UOM:		m			
Pump Test Detail ID:		11593827			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		2.51			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934073909			
Layer:		2			
Kind Code:					
Kind:					
Water Found Depth:		27.43			
Water Found Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		934073908			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		22.24			
Water Found Depth UOM:		m			
Water ID:		934073910			
Layer:		3			
Kind Code:					
Kind:					
Water Found Depth:		36.87			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11681004			
Diameter:		22.75			
Depth From:		0			
Depth To:		11.88			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
Hole ID:		11681005			
Diameter:		15.23			
Depth From:		11.88			
Depth To:		38.09			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

28	1 of 1	WSW/204.6	84.1 / 9.92	lot 11 con 3 ON	WWIS
Well ID:	1517710			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	2/11/1982
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	011
Well Depth:				Concession:	03
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10039582			Elevation:	80.34
DP2BR:	8			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	426829.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5022721
Cluster Kind:				UTMRC:	4

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Completed:	15-SEP-81			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931036052				
Layer:	1				
Color:					
General Color:					
Mat1:	28				
Most Common Material:	SAND				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:	8				
Formation End Depth UOM:	ft				
Formation ID:	931036053				
Layer:	2				
Color:					
General Color:					
Mat1:	18				
Most Common Material:	SANDSTONE				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	8				
Formation End Depth:	75				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961517710				
Method Construction Code:	4				
Method Construction:	Rotary (Air)				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10588152				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930069186				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		22			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991517710			
Pump Set At:					
Static Level:		32			
Final Level After Pumping:		70			
Recommended Pump Depth:		60			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		8			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934646378			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		32			
Test Level UOM:		ft			
Pump Test Detail ID:		934895653			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		32			
Test Level UOM:		ft			
Pump Test Detail ID:		934376125			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		32			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933474237			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		70			
Water Found Depth UOM:		ft			

[29](#) 1 of 2 WSW/217.0 84.3 / 10.08 ON BORE

Borehole ID:	609810	Type:	Borehole
Use:		Status::	
Drill Method::		UTM Zone::	18
Eastng::	426811	Northing::	5022732
Location Accuracy::		Orig. Ground Elev m::	80.8
Elev. Reliability Note::		DEM Ground Elev m::	80.9

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	20.7			Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	
	NOV-1953			-10	
--Details--					
Stratum ID: Bottom Depth(m):	218384147 0.3			Top Depth(m): Stratum Desc:	0.0 SOIL.
Stratum ID: Bottom Depth(m):	218384148 20.7			Top Depth(m): Stratum Desc:	0.3 SANDSTONE. FACE. BEDROCK,SANDSTONE. WATER STABLE AT 298.0 FEET.BLACK. LIMESTONE.

29 2 of 2 WSW/217.0 84.3 / 10.08 lot 11 con 3 ON WWIS

Well ID:	1503348	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	3/1/1954
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4825
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	MARCH TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	011
Well Depth:		Concession:	03
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10025391	Elevation:	80.86
DP2BR:	1	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426810.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5022732
Cluster Kind:		UTMRC:	9
Date Completed:	03-NOV-53	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 930996636
Layer: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:			02		
Most Common Material:			TOPSOIL		
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:			0		
Formation End Depth:			1		
Formation End Depth UOM:			ft		
Formation ID:			930996637		
Layer:			2		
Color:					
General Color:					
Mat1:			18		
Most Common Material:			SANDSTONE		
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:			1		
Formation End Depth:			68		
Formation End Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			961503348		
Method Construction Code:			1		
Method Construction:			Cable Tool		
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:			10573961		
Casing No:			1		
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:			930043534		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:			42		
Casing Diameter:			4		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
Casing ID:			930043535		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			68		
Casing Diameter:			4		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		

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

Results of Well Yield Testing

Pump Test ID: 991503348
Pump Set At:
Static Level: 35
Final Level After Pumping: 60
Recommended Pump Depth:
Pumping Rate: 5
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: N

Water Details

Water ID: 933456242
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

[30](#) 1 of 1 **NE/217.0** **79.1 / 4.90** **lot 10 con 4**
KANATA ON **WWIS**

<p> Well ID: 1536260 Construction Date: Primary Water Use: Domestic Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: Z39253 Tag: A035438 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: </p>	<p> Data Entry Status: Data Src: Date Received: 3/20/2006 Selected Flag: Yes Abandonment Rec: Contractor: 1558 Form Version: 3 Owner: Street Name: 351 SAND HILL RD County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: 010 Concession: 04 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability: </p>
--	--

Bore Hole Information

<p> Bore Hole ID: 11550326 DP2BR: 31 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 01-FEB-06 </p>	<p> Elevation: 75.21 Elevrc: Zone: 18 East83: 427298 Org CS: UTM83 North83: 5022966 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m </p>
--	--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Remarks:				Location Method:	WWT
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933041309			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		3.35			
Formation End Depth UOM:		m			
Formation ID:		933041311			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		9.44			
Formation End Depth:		38.09			
Formation End Depth UOM:		m			
Formation ID:		933041310			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		3.35			
Formation End Depth:		9.44			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933288529			
Layer:		1			
Plug From:		11.88			
Plug To:		0			
Plug Depth UOM:		m			
Plug ID:		933288530			
Layer:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:					
Plug To:					
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961536260			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11559933			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930875938			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-.45			
Depth To:		11.88			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
Casing ID:		930875939			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		11.88			
Depth To:		38.09			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11569390			
Pump Set At:		22.85			
Static Level:		2.13			
Final Level After Pumping:		3.56			
Recommended Pump Depth:		22.85			
Pumping Rate:		54.6			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:					
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Pump Test Detail ID:</i>		11594101			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		3.17			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594105			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		5			
<i>Test Level:</i>		3.24			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594163			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		2.22			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594172			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		3.52			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594099			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		2			
<i>Test Level:</i>		3.11			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594103			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		3.21			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594164			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		3.42			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594166			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		3.47			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594177			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		2.14			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594097			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		3			
<i>Test Level UOM:</i>		m			
<i>Pump Test Detail ID:</i>		11594100			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		2			
<i>Test Level:</i>		2.58			
<i>Test Level UOM:</i>		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11594161			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		2.3			
Test Level UOM:		m			
Pump Test Detail ID:		11594168			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		3.48			
Test Level UOM:		m			
Pump Test Detail ID:		11594171			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		2.14			
Test Level UOM:		m			
Pump Test Detail ID:		11594102			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		2.47			
Test Level UOM:		m			
Pump Test Detail ID:		11594169			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		2.14			
Test Level UOM:		m			
Pump Test Detail ID:		11594175			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		2.14			
Test Level UOM:		m			
Pump Test Detail ID:		11594176			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		3.53			
Test Level UOM:		m			
Pump Test Detail ID:		11594104			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		2.36			
Test Level UOM:		m			
Pump Test Detail ID:		11594167			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		2.15			
Test Level UOM:		m			
Pump Test Detail ID:		11594170			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		3.5			
Test Level UOM:		m			
Pump Test Detail ID:		11594174			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		3.53			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11594098			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		2.69			
Test Level UOM:		m			
Pump Test Detail ID:		11594165			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		2.11			
Test Level UOM:		m			
Pump Test Detail ID:		11594162			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		3.33			
Test Level UOM:		m			
Pump Test Detail ID:		11594173			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		2.14			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934073911			
Layer:		3			
Kind Code:					
Kind:					
Water Found Depth:		37.18			
Water Found Depth UOM:		m			
Water ID:		934073912			
Layer:		2			
Kind Code:					
Kind:					
Water Found Depth:		28.04			
Water Found Depth UOM:		m			
Water ID:		934073913			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		14.62			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11681006			
Diameter:		15.23			
Depth From:		11.88			
Depth To:		38.09			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
Hole ID:		11681007			
Diameter:		22.75			
Depth From:		0			
Depth To:		11.88			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
31	1 of 1	NE/222.2	79.4 / 5.24	lot 11 con 4 ON	WWIS
Well ID:		1518467		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 9/16/1983	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 5411	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 011	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10040337	Elevation:	74.84
DP2BR:	15	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	427229.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5023021
Cluster Kind:		UTMRC:	4
Date Completed:	27-AUG-83	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931038530
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	15
Formation End Depth UOM:	ft
Formation ID:	931038532
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		64			
Formation End Depth:		70			
Formation End Depth UOM:		ft			
Formation ID:		931038531			
Layer:		2			
Color:		1			
General Color:		WHITE			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		15			
Formation End Depth:		64			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961518467			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10588907			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930070420			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		22			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930070421			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		70			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID: 991518467					
Pump Set At:					
Static Level: 7					
Final Level After Pumping: 9					
Recommended Pump Depth: 65					
Pumping Rate: 40					
Flowing Rate:					
Recommended Pump Rate: 8					
Levels UOM: ft					
Rate UOM: GPM					
Water State After Test Code: 1					
Water State After Test: CLEAR					
Pumping Test Method: 1					
Pumping Duration HR: 1					
Pumping Duration MIN: 0					
Flowing: N					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934103782					
Test Type: Recovery					
Test Duration: 15					
Test Level: 7					
Test Level UOM: ft					
<u>Water Details</u>					
Water ID: 933475188					
Layer: 2					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 64					
Water Found Depth UOM: ft					
Water ID: 933475187					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 33					
Water Found Depth UOM: ft					
32	1 of 1	WNW/240.7	80.9 / 6.69	lot 11 con 3 ON	WWIS
Well ID: 1530397				Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use: Domestic				Date Received: 12/1/1998	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status: Water Supply				Abandonment Rec:	
Water Type:				Contractor: 4875	
Casing Material:				Form Version: 1	
Audit No: 198116				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 011	
Well Depth:				Concession: 03	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	

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

Clear/Cloudy:

Bore Hole Information

Bore Hole ID:	10051932	Elevation:	78.1
DP2BR:	0	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426787.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5022927
Cluster Kind:		UTMRC:	5
Date Completed:	21-OCT-98	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931075367
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	90
Formation End Depth:	160
Formation End Depth UOM:	ft

Formation ID:	931075366
Layer:	1
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	90
Formation End Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	933115542
Layer:	1
Plug From:	18
Plug To:	0
Plug Depth UOM:	ft

Method of Construction & Well

Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		961530397			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10600502			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930090549			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		18			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930090550			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		160			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991530397			
Pump Set At:					
Static Level:		12			
Final Level After Pumping:		50			
Recommended Pump Depth:		140			
Pumping Rate:		6			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934393372			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		43			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: 934118384					
Test Type: Draw Down					
Test Duration: 15					
Test Level: 36					
Test Level UOM: ft					
Pump Test Detail ID: 934662522					
Test Type: Draw Down					
Test Duration: 45					
Test Level: 47					
Test Level UOM: ft					
Pump Test Detail ID: 934902109					
Test Type: Draw Down					
Test Duration: 60					
Test Level: 50					
Test Level UOM: ft					
Water Details					
Water ID: 933490511					
Layer: 1					
Kind Code: 5					
Kind: Not stated					
Water Found Depth: 36					
Water Found Depth UOM: ft					
Water ID: 933490512					
Layer: 2					
Kind Code: 5					
Kind: Not stated					
Water Found Depth: 88					
Water Found Depth UOM: ft					
Water ID: 933490513					
Layer: 3					
Kind Code: 5					
Kind: Not stated					
Water Found Depth: 145					
Water Found Depth UOM: ft					
33	1 of 1	NW/276.4	79.8 / 5.61	Riotrin Properties (March Road) Inc. 830 March Rd 1095 Klondike Road Ottawa ON	CA
Certificate #: 5973-8DVJXN					
Application Year: 2011					
Issue Date: 2/28/2011					
Approval Type: Municipal and Private Sewage Works					
Status: Approved					
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
34	1 of 2	E/282.5	79.9 / 5.69	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Borehole ID:	609812			Type: Borehole	
Use:				Status::	
Drill Method::				UTM Zone:: 18	
Easting::	427451			Northing:: 5022752	
Location Accuracy::				Orig. Ground Elev m:: 73.2	
Elev. Reliability Note::				DEM Ground Elev m:: 75.9	
Total Depth m::	18			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	MAR-1972			Static Water Level:: -17	
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218384151			Top Depth(m): 0.0	
Bottom Depth(m):	6.1			Stratum Desc: CLAY. BLUE.	
Stratum ID:	218384152			Top Depth(m): 6.1	
Bottom Depth(m):	12.2			Stratum Desc: GRAVEL,HARDPAN.	
Stratum ID:	218384153			Top Depth(m): 12.2	
Bottom Depth(m):	18.0			Stratum Desc: SANDSTONE. 00057E. WATER STABLE AT 298.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE. BLACK	
34	2 of 2	E/282.5	79.9 / 5.69	lot 10 con 4 ON	WWIS
Well ID:	1511768			Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:	Domestic			Date Received: 5/19/1972	
Sec. Water Use:	0			Selected Flag: Yes	
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor: 3504	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA-CARLETON	
Elevation (m):				Municipality: MARCH TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 010	
Well Depth:				Concession: 04	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10033762			Elevation: 75.85	
DP2BR:	40			Elevrc:	
Spatial Status:				Zone: 18	
Code OB:	r			East83: 427450.6	
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83: 5022752	
Cluster Kind:				UTMRC: 4	
Date Completed:	30-MAR-72			UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:				Location Method: p4	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931018679			
Layer:		3			
Color:					
General Color:					
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		40			
Formation End Depth:		59			
Formation End Depth UOM:		ft			
Formation ID:		931018677			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
Formation ID:		931018678			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		14			
Other Materials:		HARDPAN			
Mat3:					
Other Materials:					
Formation Top Depth:		20			
Formation End Depth:		40			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961511768			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10582332			
Casing No:		1			
Comment:					
Alt Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930059982			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		43			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930059983			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		59			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991511768			
Pump Set At:					
Static Level:		8			
Final Level After Pumping:		12			
Recommended Pump Depth:		30			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		10			
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:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934645094			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		8			
Test Level UOM:		ft			
Pump Test Detail ID:		934383934			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		8			
Test Level UOM:		ft			
Pump Test Detail ID:		934894224			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		8			
Test Level UOM:		ft			
Pump Test Detail ID:		934098418			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Test Type:		Recovery			
Test Duration:		15			
Test Level:		8			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933467025			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		57			
Water Found Depth UOM:		ft			

<u>35</u>	1 of 1	NNE/286.6	77.3 / 3.10	Klondike Rd. and Sandhill Rd. Kanata ON	EHS
Order ID:	96639			Date Received:	3/7/2007
Order No:	20070307016			Lot/Building Size:	5 acres approximately
Customer ID:	44007			Municipality:	
Company ID:	86			Client Prov/State:	
Status:	C			Search Radius (km):	0.25
Report Code:	3CAN			Large Radius:	2
Report Type:	CAN - Complete Report			X:	-75.928947
Report Date:	3/15/2007			Y:	45.357632
Report Requested by:	SLR Consulting (Canada) Ltd.				
Nearest Intersection:	Klondike and Sandhill NE corner				
Previous Site Name:					
Additional Info Ordered:					

Unplottable Summary

Total: **91** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 8/11 Con 4/5	Kanata ON	
AAGR		Lot 10 Con 3	Nepean ON	
AAGR		Lot 11 Con 3	Kanata ON	
CA	Riotrin Properties (March Road) Inc.		Ottawa ON	
CA	KNL Developments Inc.	Former Township of March	Ottawa ON	
CA	Morgan's Grant Subdivision Phase 5B	Lot 10, Concession 3	Kanata ON	
CA	Morgan's Grant Subdivision Phase 6, 7 & 8	Lot 10, Concession 3	Ottawa ON	
CA	Tenth Line Development Inc.	Sandhill Rd Kanata	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	ONT.HYDRO ESMT/KLONDIKE RD.	KANATA CITY ON	
CA	COSCAN DEVELOPMENT CORP.	BRIARBROOK SUBD/INVERARY DR.	KANATA CITY ON	
CA	COSCAN DEVELOPMENT CORPORATION	BRIARBROOK SUBD/INVERARY DR.	KANATA CITY ON	
CA	Klondike Developments Inc.	870 March St and 1001 Klondike Road	Ottawa ON	
CA		Pt. Lots 7, 8, 9, 10, 11, Conc. 4	Nepean ON	
CA	Briarridge Subdivision	Part of Lots 9 and 10, Concession 4, Plan 4M-755	Ottawa ON	
CA	Briarridge Subdivision	Part of Lots 9 and 10, Concession 4, Plan 4M-755	Ottawa ON	
CA	Briarridge Subdivision	Part of Lots 9 and 10, Concession 4, Plan 4M-755	Ottawa ON	

CA	West Carleton Sand & Gravel Inc.	Part of Lots 11 and 12, Concession 4	Ottawa ON	
CA	Morgan's Grant	Part of Lot 11, Concession 3	Ottawa ON	
CA		Part of Lot 10, Concession 3	Kanata ON	
CA		Part of Lot 10, Concession 3	Kanata ON	
CA	Morgan's Grant Subdivision Phase 5B	Lot 10, Concession 3	Kanata ON	
CA	Shirleys Brooke Drive	Lot 10, Concession 3	Kanata ON	
CA	Morgan's Grant Subdivision Phase 9	Lot 10, Concession 3	Ottawa ON	
CA		Lot 10, Concession 3	Kanata ON	
CA	Morgan's Grant Subdivision Phase 6, 7 & 8	Lot 10, Concession 3	Ottawa ON	
CA	Morgan's Grant Subdivision Phase 9	Lot 10, Concession 3	Ottawa ON	
CA		Lot 10, Concession 3	Kanata ON	
CONV	IMPERIAL OIL LIMITED		DON MILLS ON	
CONV	IMPERIAL OIL LIMITED		NORTH YORK ON	
EBR	West Carleton Sand & Gravel	McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carelton City of Ottawa CITY OF OTTAWA	ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	

EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	
EXP	CITY OF KANATA	KLONDIKE RD	KANATA ON	K2L 2N3
GEN	E.B. EDDY FOREST PRODUCTS LTD. 14-802	LOT 10, CONC. 3, CAMP 12 F.OP SITE IVY TWP., C/O 1335 CARLING AVE.	OTTAWA ON	K1Z 8N8
GEN	E.B. EDDY FOREST PRODUCTS LTD.	LOT 10, CONC. 3, CAMP 12 F.OP SITE IVY TWP., C/O 1335 CARLING AVE.	OTTAWA ON	K1Z 8N8
GEN	IMPERIAL OIL LTD	ESSO PETROLEUM CANADA OTTAWA INTERNATIONAL AIRPORT	OTTAWA ON	M5W 1K3
LIMO	The Corporation of the Township of Rideau	Part of Lot 11, Concession 3	City of Ottawa ON	
NCPL	West Carleton Sand & Gravel Inc.	Lot 11-14, Conc 4	Ottawa ON	
NPCB	ONTARIO HYDRO	R. M. OTTAWA- CARLETON/ CONC. 3. LOT SOUTH MARCH T. S.	Kanata ON	
PRT	CITY OF KANATA	KLONDIKE RD	KANATA ON	
PRT	CITY OF KANATA	KLONDIKE RD	KANATA ON	
PTTW	Kanata Research Park Corporation	Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA	ON	
PTTW	West Carleton Sand & Gravel	Lots 11 and 12, Concession 4 CITY OF OTTAWA	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City	of Ottawa CITY OF OTTAWA Nepean ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA	ON	

SPL	OTTAWA-CARLETON TRANSIT	MARCH ROAD, SOUTH OF CARLING	OTTAWA CITY ON
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON
SPL	ESSO PETROLEUM CANADA	BULK STATION	OTTAWA CITY ON
SPL	Esso Petroleum Canada, A Division of Imperial Oil Limited	Nepean	Ottawa ON
SPL	ESSO PETROLEUM CANADA	SERVICE STATION	NEPEAN CITY ON
SPL	ESSO PETROLEUM CANADA	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	IMPERIAL OIL	TANK TRUCK (CARGO)	NEPEAN CITY ON
SPL	ESSO PETROLEUM CANADA	TRANSPORT TRUCK (CARGO)	OTTAWA CITY ON
SPL	ESSO PETROLEUM CANADA	ESSO DISTRIBUTION STATION BULK STATION	OTTAWA CITY ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 11	ON
WWIS		lot 100	ON
WWIS		lot 10	ON
WWIS		lot 10	ON
WWIS		lot 10	ON
WWIS		lot 10	ON
WWIS		lot 10	ON
WWIS		lot 10	ON
WWIS		lot 10	ON

WWIS	lot 10	ON
WWIS	lot 10	ON
WWIS	lot 10	ON
WWIS	con 4	ON
WWIS	lot 10	ON
WWIS	lot 10	ON
WWIS	lot 10	ON

Unplottable Report

Site: Lot 8/11 Con 4/5 Kanata ON

Database:
AAGR

Type:
Region/County: Ottawa-Carleton
Township: Kanata
Concession:: 4/5
Lot:: 8/11
Size (ha)::
Landuse::
Comments::

Site: Lot 10 Con 3 Nepean ON

Database:
AAGR

Type: Pit
Region/County: Ottawa-Carleton
Township: Nepean
Concession:: 3
Lot:: 10
Size (ha):: 11
Landuse::
Comments::

Site: Lot 11 Con 3 Kanata ON

Database:
AAGR

Type: Quarry
Region/County: Ottawa-Carleton
Township: Kanata
Concession:: 3
Lot:: 11
Size (ha):: 0.5
Landuse::
Comments::

Site: Riotrin Properties (March Road) Inc.
Ottawa ON

Database:
CA

Certificate #: 1369-7TZJGG
Application Year: 2009
Issue Date: 8/5/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: KNL Developments Inc.
Former Township of March Ottawa ON

Database:
CA

Certificate #: 3666-7FFRAG
Application Year: 2008
Issue Date: 8/28/2008
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: Morgan's Grant Subdivision Phase 5B
Lot 10, Concession 3 Kanata ON

Database:
CA

Certificate #: 8843-4Q7RKV
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Watermains to be constructed in Morgan's Grant Subdivision Phase 5B in the City of Kanata.
Contaminants::
Emission Control::

Site: Morgan's Grant Subdivision Phase 6, 7 & 8
Lot 10, Concession 3 Ottawa ON

Database:
CA

Certificate #: 8414-53CPMC
Application Year: 01
Issue Date: 10/11/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Avenue West, Suite 300
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Construction of Watermains for Residential Development in Morgan's Grant Subdivision Phase 6, 7 & 8.
Contaminants::
Emission Control::

Site: Tenth Line Development Inc.
Sandhill Rd Kanata Ottawa ON

Database:
CA

Certificate #: 6996-7TWQND
Application Year: 2009
Issue Date: 7/14/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::

Project Description::
Contaminants::
Emission Control::

Site: R.M. OF OTTAWA-CARLETON
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database:
CA

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF OTTAWA-CARLETON
ONT.HYDRO ESMT/KLONDIKE RD. KANATA CITY ON

Database:
CA

Certificate #: 3-0927-95-
Application Year: 95
Issue Date: 7/19/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: COSCAN DEVELOPMENT CORP.
BRIARBROOK SUBD/INVERARY DR. KANATA CITY ON

Database:
CA

Certificate #: 7-1466-90-
Application Year: 90
Issue Date: 9/28/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: COSCAN DEVELOPMENT CORPORATION
BRIARBROOK SUBD/INVERARY DR. KANATA CITY ON

Database:
CA

Certificate #: 3-1809-90-
Application Year: 90
Issue Date: 9/28/1990
Approval Type: Municipal sewage

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

Site: Klondike Developments Inc.
870 March St and 1001 Klondike Road Ottawa ON

Database:
CA

Certificate #: 0048-79MQC5
Application Year: 2007
Issue Date: 12/6/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Pt. Lots 7, 8, 9, 10, 11, Conc. 4 Nepean ON

Database:
CA

Certificate #:
Application Year: 00
Issue Date: 11/30/00
Approval Type: Municipal & Private sewage
Status: Cancelled
Application Type: New Certificate of Approval
Client Name:: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address:: 4475 Trail Rd.
Client City:: Nepean
Client Postal Code:: KOA 2Z0
Project Description:: Review of proposed environmental assessment terms of reference for Region of Ottawa-Carleton Trail Waste Facility Landfill optimization/expansion project.
Contaminants::
Emission Control::

Site: Briaridge Subdivision
Part of Lots 9 and 10, Concession 4, Plan 4M-755 Ottawa ON

Database:
CA

Certificate #: 2874-4UNSJN
Application Year: 01
Issue Date: 3/10/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Tenth Line Development Inc.
Client Address:: 210 Gladstone Avenue, Suite 2001
Client City:: Ottawa
Client Postal Code:: K2P 0Y6
Project Description:: Storm and Sanitary Sewage Construction on Shirley Brook Drive and Catterick Crescent.
Contaminants::
Emission Control::

Site: Briarridge Subdivision
Part of Lots 9 and 10, Concession 4, Plan 4M-755 Ottawa ON

Database:
CA

Certificate #: 5513-4VBK22
Application Year: 01
Issue Date: 4/2/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Tenth Line Development Inc.
Client Address:: 210 Gladstone Avenue, Suite 2001
Client City:: Ottawa
Client Postal Code:: K2P 0Y6
Project Description:: Watermains Construction in Briarridge Subdivision.
Contaminants::
Emission Control::

Site: Briarridge Subdivision
Part of Lots 9 and 10, Concession 4, Plan 4M-755 Ottawa ON

Database:
CA

Certificate #: 8454-4UNSYA
Application Year: 01
Issue Date: 3/10/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name:: Tenth Line Development Inc.
Client Address:: 210 Gladstone Avenue, Suite 2001
Client City:: Ottawa
Client Postal Code:: K2P 0Y6
Project Description:: Watermains Construction in Briarridge Subdivision
Contaminants::
Emission Control::

Site: West Carleton Sand & Gravel Inc.
Part of Lots 11 and 12, Concession 4 Ottawa ON

Database:
CA

Certificate #: 5875-6BDFW7
Application Year: 2006
Issue Date: 4/28/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Morgan's Grant
Part of Lot 11, Concession 3 Ottawa ON

Database:
CA

Certificate #: 8692-54QSUG
Application Year: 01
Issue Date: 12/21/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Avenue West, Suite 300
Client City:: Ottawa
Client Postal Code:: K1R 7Y2

Project Description:: Stormwater management facility providing water quantity and quality control.
Contaminants::
Emission Control::

Site: Part of Lot 10, Concession 3 Kanata ON

Database:
CA

Certificate #: 7072-4LFPRF
Application Year: 00
Issue Date: 6/21/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Sotrm and sanitary sewers to be constructed in Morgan's Grant Subdivision Phase 5C in the City of Kanata.
Contaminants::
Emission Control::

Site: Part of Lot 10, Concession 3 Kanata ON

Database:
CA

Certificate #: 0081-4LFQ7S
Application Year: 00
Issue Date: 6/21/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Watermains to be constructed in Morgan's Grant Subdivision Phase 5C in the City of Kanata.
Contaminants::
Emission Control::

Site: Morgan's Grant Subdivision Phase 5B
Lot 10, Concession 3 Kanata ON

Database:
CA

Certificate #: 3314-4Q7RF4
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Storm and sanitary sewers to be constructed in Morgan's Grant Subdivision Phase 5B in the City of Kanata.
Contaminants::
Emission Control::

Site: Shirleys Brooke Drive
Lot 10, Concession 3 Kanata ON

Database:
CA

Certificate #: 4041-4PSKY2
Application Year: 00
Issue Date: 10/5/00
Approval Type: Municipal & Private sewage

Status: Approved
Application Type: New Certificate of Approval
Client Name:: Shell Canada Limited
Client Address:: 90 Sheppard Ave. E.
Client City:: Toronto
Client Postal Code:: M2N 6Y2
Project Description:: Construction of sanitary sewers on Shirleys Brook Drive from Inverary Drive to approximately 85 m east of March Road in the City of Kanata.
Contaminants::
Emission Control::

Site: *Morgan's Grant Subdivision Phase 9
Lot 10, Concession 3 Ottawa ON*

Database:
CA

Certificate #: 1411-4UMSZM
Application Year: 01
Issue Date: 3/10/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Avenue West, Suite 300
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Installation of watermains on Klondike Road, Piekoff Crescent, Wallsend Avenue and Rayburn Street.
Contaminants::
Emission Control::

Site: *Lot 10, Concession 3 Kanata ON*

Database:
CA

Certificate #: 8141-4Q2Q3S
Application Year: 00
Issue Date: 10/13/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Construction of a watermain in Morgan's Grant Subdivision Phase 2, Block 223 in the City of Kanata, on Street No. 1.
Contaminants::
Emission Control::

Site: *Morgan's Grant Subdivision Phase 6, 7 & 8
Lot 10, Concession 3 Ottawa ON*

Database:
CA

Certificate #: 8761-53CPYZ
Application Year: 01
Issue Date: 10/11/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Avenue West, Suite 300
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Construction of Storm and Sanitary Sewers for Residential Development Morgan's Grant Subdivision Phase 6, 7, & 8
Contaminants::
Emission Control::

Site: *Morgan's Grant Subdivision Phase 9
Lot 10, Concession 3 Ottawa ON*

Database:
CA

Certificate #: 0828-4UMQX6
Application Year: 01
Issue Date: 3/10/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Avenue West, Suite 300
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Installation of storm and sanitary sewers in Morgan's Grant Subdivision Phase 9, on Klondike Road, Piekoff Crescent, Wallsend Avenue and Rayburn Street.
Contaminants::
Emission Control::

Site: *Lot 10, Concession 3 Kanata ON*

Database:
CA

Certificate #: 3520-4Q2R3G
Application Year: 00
Issue Date: 10/13/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Minto Developments Inc.
Client Address:: 427 Laurier Ave. West
Client City:: Ottawa
Client Postal Code:: K1R 7Y2
Project Description:: Construction of sanitary and storm sewers in Morgan's Subdivision Phase 2, Block 223, in the City of Kanata, on Goulbourn Road and Street No. 1 (Cul-de-sac).
Contaminants::
Emission Control::

Site: *IMPERIAL OIL LIMITED
DON MILLS ON*

Database:
CONV

File No.:
Publication Title:
Publication City:
Url:
Crown Brief No.:
Ministry District:
Region: EASTERN REGION
Description: FAILED TO COMPLY WITH CONDITIONS OF C. OF A.

--Details--

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date Charged: 6/4/93
Charge Disposition:
Fine: \$6,000

Publication Date:
Count: 1
Act: OWRA
Regulation:

Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date Charged: 6/4/93
Charge Disposition:
Fine: \$6,000

Site: **IMPERIAL OIL LIMITED**
NORTH YORK ON

Database:
CONV

File No.:
Publication Title:
Publication City:
Url:
Crown Brief No.:
Ministry District:
Region: EASTERN REGION
Description: FAILED TO INSPECT OIL/WATER SEPARATOR WEEKLY & MAINTAIN LOG BOOK AT SITE

--Details--

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date Charged: 6/4/93
Charge Disposition:
Fine: \$1,000

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date Charged: 6/4/93
Charge Disposition:
Fine: \$4,000

Site: **West Carleton Sand & Gravel**
McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carleton City of Ottawa CITY
OF OTTAWA ON

Database:
EBR

Company Name: West Carleton Sand & Gravel
EBR Registry No.: IA05E0467
Ministry Ref. No.: 9797-6ASMMB
Notice Type: Instrument Decision
Notice Date: April 28, 2006
Proposal Date: April 11, 2005
Year: 2005
Proponent Address: 3725 Carp Road, P.O Box 264, Carp Ontario, K0A 1L0
Instrument Type: (OWRA s. 53(1)) - Approval for sewage works
Location Other:

Location:

McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carleton City of Ottawa CITY OF OTTAWA

Site: **CITY OF KANATA**
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 10797969

Instance ID: 41197
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10797960
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10798026
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 12/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10797978
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 10798032
Instance ID: 39407
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 10797999
Instance ID: 40770
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10798008
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 12/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10797990
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 10798017
Instance ID: 41890
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 10797984
Instance ID: 41317
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:

Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
[EXP](#)

Instance No: 10797960
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
[EXP](#)

Instance No: 10797978
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
[EXP](#)

Instance No: 10798026
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 12/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
[EXP](#)

Instance No: 9319126
Instance ID: 384893
Instance Type: FS Facility
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
[EXP](#)

Instance No: 10797990
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:

Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 8/29/1990

Site: CITY OF KANATA
KLONDIKE RD KANATA ON

Database:
EXP

Instance No: 9392489
Instance ID: 380134
Instance Type: FS Facility
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: CITY OF KANATA
KLONDIKE RD KANATA ON K2L 2N3

Database:
EXP

Instance No: 10798008
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 12/29/1990

Site: E.B. EDDY FOREST PRODUCTS LTD. 14-802
LOT 10, CONC. 3, CAMP 12 F.OP SITE IVY TWP., C/O 1335 CARLING AVE. OTTAWA ON K1Z 8N8

Database:
GEN

Generator No.: ON0009805
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 2599
SIC Description: OTHER WOOD IND.
PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: E.B. EDDY FOREST PRODUCTS LTD.
LOT 10, CONC. 3, CAMP 12 F.OP SITE IVY TWP., C/O 1335 CARLING AVE. OTTAWA ON K1Z 8N8

Database:
GEN

Generator No.: ON0009805
Status:
Approval Years: 90
Contam. Facility:
MHSW Facility:
SIC Code: 2599
SIC Description: OTHER WOOD IND.
PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: **IMPERIAL OIL LTD**
ESSO PETROLEUM CANADA OTTAWA INTERNATIONAL AIRPORT OTTAWA ON M5W 1K3

Database:
GEN

Generator No.: ON0000713
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 4523
SIC Description: AIRCRAFT SEVICING

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

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: **The Corporation of the Township of Rideau**
Part of Lot 11, Concession 3 City of Ottawa ON

Database:
LIMO

C of A No: A461201
C of A Issue Date: 11/17/1971
C of A Issued to:
Operation Status: Closed
Landfill Type:
Total Site Area:
Footprint:
Tot Apprvd Capac:
Tot Aprv Cp Unit:
Fill Rate:
Fill Rate Unit:
Est Remain Cap:
ERC Volume Unit:
ERC Methodology:
ERC Dt Last Det:
Total Waste Rec:
TWR Unit:
TWR Methodology:
Site Name: Pierces Corners Landfill
Air Emmis Monitor:
Leachate Off-Site:
Leachate On Site:
Landfill Gas Manag (P):
Landfill Gas Manag (F):
Landfill Gas Manag (E):
Req Col Lndfil Gas:
Lndfil Gas Cllected:
Lndfil Gas Mntr:
Service Area:
Approved Waste Type:

Site County: Ottawa
MOE Region: Eastern
MOE District: Ottawa
Easting:
Northing:
Latitude:
Longitude:
UTM Zone:
Data Source: small landfills
Cntm Attn Zn:
Grndwtr Mntr:
Surf Wtr Mntr:
Lst Rprting Yr:
Fin Assrnce:
Nat Attnuatn:
Liners:
Cvr Material:

Site: **West Carleton Sand & Gravel Inc.**
Lot 11-14, Conc 4 Ottawa ON

Database:
NCPL

Year: 2006
Discharge Type: Industrial Sewage
Sector: Miscellaneous
District Area: Ottawa
Type of Concern: C of A/Permit Non-Compliance
Contaminant: SUSPENDED SOLIDS
Status Report:

--Details--

Incident Date: 10/5/2006
Incident Start Date: 10/5/2006
Incident End Date: 10/5/2006
Limit/Unit/Freq: 25 mg/L
Quantity Min/Max: 32/32
Ministry Action: Voluntary Abatement Program Underway
Facility Action: Operational Process Modification

Site: **ONTARIO HYDRO**
R. M. OTTAWA- CARLETON/ CONC. 3. LOT SOUTH MARCH T. S. Kanata ON

Database:
NPCB

Company Code: O0941
Industry: Utility
Site Status: Stored for Disposal
Transaction Date: 11/9/1989
Inspection Date:

--Details--

Label:
Serial No.:
PCB Type/Code: Askarel/Inerteen
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Site: **CITY OF KANATA**
KLONDIKE RD KANATA ON

Database:
PRT

Location ID: 6728
Type: retail
Expiry Date:
Capacity (L): 22730
Licence #: 0001052484

Site: **CITY OF KANATA**
KLONDIKE RD KANATA ON

Database:
PRT

Location ID: 6728
Type: private
Expiry Date:
Capacity (L): 36368.00
Licence #: 0001031141

Site: **Kanata Research Park Corporation**
Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No.: IA05E1015
Ministry Ref. No.: ER-3083-67XPBX
Notice Type: Instrument Decision
Notice Date: November 02, 2005
Proposal Date: June 29, 2005
Year: 2005
Proponent Address: 555 Legget Drive, Kanata Ontario, K2K 2X3
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA

Site: *West Carleton Sand & Gravel*
Lots 11 and 12, Concession 4 CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No.: IA05E0281
Ministry Ref. No.: ER-2284-69WM7D
Notice Type: Instrument Decision
Notice Date: June 03, 2005
Proposal Date: March 07, 2005
Year: 2005
Proponent Address: 3725 Carp Road, P.O Box 264, Carp Ontario, K0A 1L0
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Lots 11 and 12, Concession 4 CITY OF OTTAWA

Site: *Mattamy (Half Moon Bay) Limited*
Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean ON

Database:
PTTW

EBR Registry No.: 012-5618
Ministry Ref. No.: 6071-A3PQPJ
Notice Type: Instrument Decision
Notice Date: February 01, 2016
Proposal Date: November 03, 2015
Year: 2015
Proponent Address: 2360 Bristol Circle, Oakville Ontario, Canada L6H 6M5
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean

Site: *Mattamy (Half Moon Bay) Limited*
Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean ON

Database:
PTTW

EBR Registry No.: 010-4784
Ministry Ref. No.: 6623-7JUKMA
Notice Type: Instrument Decision
Notice Date: April 29, 2009
Proposal Date: October 08, 2008
Year: 2008
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean

Site: *Mattamy (Half Moon Bay) Limited*
Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No.: 010-5959
Ministry Ref. No.: 8783-7PCUC4

Notice Type: Instrument Decision
Notice Date: June 26, 2009
Proposal Date: February 20, 2009
Year: 2009
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA

Site: OTTAWA-CARLETON TRANSIT
MARCH ROAD, SOUTH OF CARLING OTTAWA CITY ON

Database:
SPL

Ref No: 222088
Site No:
Incident Dt: 2/25/2002
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/25/2002
Dt Document Closed:
SAC Action Class:
Incident Reason: MATERIAL FAILURE
Incident Summary: OC TRANSIT: 2L OF ANTIFREEZE IN THE SEWER, CLEANING

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20107
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: ONTARIO HYDRO
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database:
SPL

Ref No: 128700
Site No:
Incident Dt: 6/26/1996
Year:
Incident Cause: COOLING SYSTEM LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/3/1996
Dt Document Closed:
SAC Action Class:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20103
Site Lot:
Site Conc:
Northing:
Easting: EPS
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Incident Reason: OTHER
Incident Summary: ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.

Site: ESSO PETROLEUM CANADA
BULK STATION OTTAWA CITY ON

Database:
SPL

Ref No:	155190	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	5/1/1998	Client Type:	
Year:		Sector Type:	
Incident Cause:	OTHER CAUSE (N.O.S.)	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	5/1/1998	Site Map Datum:	
Dt Document Closed:			
SAC Action Class:			
Incident Reason:	NEGLIGENCE (APPARENT)		
Incident Summary:	ESSO-156 L DIESEL TO LOT,LOADING ARM NOT IN TRUCKSCOMPARTMENT,PUMP STARTED.		

Site: Esso Petroleum Canada, A Division of Imperial Oil Limited
Nepean Ottawa ON

Database:
SPL

Ref No:	0874-78WNRU	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:		Client Type:	
Year:		Sector Type:	Tank Truck
Incident Cause:	Pipe Or Hose Leak	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	1961 Merivale Rd<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	8 L	Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	soil contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:	No Field Response	Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	11/13/2007	Site Map Datum:	
Dt Document Closed:	11/16/2007		
SAC Action Class:			
Incident Reason:	Equipment Failure		
Incident Summary:	Errentom Tanklines - 8L diesel to grd		

Site: ESSO PETROLEUM CANADA
SERVICE STATION NEPEAN CITY ON

Database:
SPL

Ref No:	65520	Discharger Report:	
Site No:		Material Group:	

Incident Dt: 12/23/1991
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/24/1991
Dt Document Closed:
SAC Action Class:
Incident Reason: ERROR
Incident Summary: ESSO/TRW PETROLEUM: 30 L GASOLINE TO GROUND WHEN TANK OVERFILLED

Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20104
Site Lot:
Site Conc:
Northing:
Easting: MCCR
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: ESSO PETROLEUM CANADA
 TANK TRUCK (CARGO) OTTAWA CITY ON

Database:
 SPL

Ref No: 47843
Site No:
Incident Dt: 3/19/1991
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/20/1991
Dt Document Closed:
SAC Action Class:
Incident Reason: ERROR
Incident Summary: ESSO HOME COMFORT - TANK TRUCK SPILLED APPROX 1 L.HEATING OIL ON GROUND

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: IMPERIAL OIL
 TANK TRUCK (CARGO) NEPEAN CITY ON

Database:
 SPL

Ref No: 35439
Site No:
Incident Dt: 5/29/1990
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:

Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/29/1990
Dt Document Closed:
SAC Action Class:
Incident Reason: ERROR
Incident Summary: IMPERIAL OIL - 10 L GASO- LINE TO CONCRETE. CLEAN UP COMPLETED.

Site Municipality: 20104
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **ESSO PETROLEUM CANADA**
TRANSPORT TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No: 59519
Site No:
Incident Dt: 11/7/1991
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/7/1991
Dt Document Closed:
SAC Action Class:
Incident Reason: ERROR
Incident Summary:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

RACK,COUPLING NOT CLOSED

Site: **ESSO PETROLEUM CANADA**
ESSO DISTRIBUTION STATION BULK STATION OTTAWA CITY ON

Database:
SPL

Ref No: 46877
Site No:
Incident Dt: 2/21/1991
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/21/1991
Dt Document Closed:
SAC Action Class:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Incident Reason: ERROR
Incident Summary: ESSO DISTRIB. STATION - 50 L FURNACE OIL SPILLED TO LOADING DOCK. OV/FILL.

Site: lot 11 ON

Database:
WWIS

Well ID:	1524142	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/26/1990
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3644
Casing Material:		Form Version:	1
Audit No:	56282	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	MARCH TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	011
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10045914	Elevation:	
DP2BR:	1	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	
Cluster Kind:		UTMRC:	9
Date Completed:	30-AUG-89	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931056979
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	1
Formation End Depth UOM:	ft
Formation ID:	931056980
Layer:	2
Color:	2

General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 1
Formation End Depth: 100
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961524142
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594484
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080381
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930080382
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524142
Pump Set At:
Static Level: 6
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0

Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934652922
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934107723
Test Type:
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934391952
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934910122
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933482687
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 63
Water Found Depth UOM: ft

Water ID: 933482688
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 95
Water Found Depth UOM: ft

Site: lot 11 ON

Database:
WWIS

Well ID: 1526861
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:

Data Entry Status:
Data Src: 1
Date Received: 10/20/1992
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Clear/Cloudy:

Bore Hole Information

Bore Hole ID:	10048549	Elevation:	
DP2BR:	7	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	
Cluster Kind:		UTMRC:	9
Date Completed:	26-NOV-86	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931065377
Layer:	3
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	73
Other Materials:	HARD
Mat3:	
Other Materials:	
Formation Top Depth:	125
Formation End Depth:	135
Formation End Depth UOM:	ft
Formation ID:	931065376
Layer:	2
Color:	2
General Color:	GREY
Mat1:	21
Most Common Material:	GRANITE
Mat2:	73
Other Materials:	HARD
Mat3:	
Other Materials:	
Formation Top Depth:	7
Formation End Depth:	125
Formation End Depth UOM:	ft
Formation ID:	931065375
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	81
Other Materials:	SANDY
Mat3:	02
Other Materials:	TOPSOIL
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933112005
Layer: 1
Plug From: 0
Plug To: 18
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961526861
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10597119
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930085001
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526861
Pump Set At:
Static Level: 6
Final Level After Pumping: 130
Recommended Pump Depth: 70
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934109025
Test Type:
Test Duration: 15
Test Level: 8
Test Level UOM: ft

Pump Test Detail ID: 934910782
Test Type:
Test Duration: 60

Test Level: 6
Test Level UOM: ft

Pump Test Detail ID: 934653172
Test Type:
Test Duration: 45
Test Level: 6
Test Level UOM: ft

Pump Test Detail ID: 934392659
Test Type:
Test Duration: 30
Test Level: 6
Test Level UOM: ft

Water Details

Water ID: 933486311
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 130
Water Found Depth UOM: ft

Site:
 lot 11 ON

Database:
 WWIS

<p> Well ID: 1534269 Construction Date: Primary Water Use: Not Used Sec. Water Use: Final Well Status: Not A Well Water Type: Casing Material: Audit No: 265848 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: </p>	<p> Data Entry Status: Data Src: 1 Date Received: 11/17/2003 Selected Flag: Yes Abandonment Rec: Contractor: 6907 Form Version: 2 Owner: Street Name: County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: 011 Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: </p>
--	--

Bore Hole Information

<p> Bore Hole ID: 11097321 DP2BR: Spatial Status: Code OB: - Code OB Desc: No formation data Open Hole: Cluster Kind: Date Completed: 26-SEP-03 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </p>	<p> Elevation: Elevrc: Zone: 18 East83: Org CS: North83: UTMRC: 9 UTMRC Desc: unknown UTM Location Method: na </p>
--	---

Method of Construction & Well Use

Method Construction ID: 961534269
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11101036
Casing No: 1
Comment:
Alt Name:

Site: lot 11 ON

Database:
WWIS

Well ID: 1520591
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/21/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042433
DP2BR: 7
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 02-JUL-86
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931045243
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE

Mat2: 18
Other Materials: SANDSTONE
Mat3: 73
Other Materials: HARD
Formation Top Depth: 7
Formation End Depth: 35
Formation End Depth UOM: ft

Formation ID: 931045242
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Formation ID: 931045244
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 35
Formation End Depth: 55
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109161
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961520591
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591003
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074063
Layer: 2
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 55
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930074062
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520591
Pump Set At:
Static Level: 5
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 80
Flowing Rate:
Recommended Pump Rate: 25
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934112478
Test Type: Draw Down
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934648364
Test Type: Draw Down
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934906146
Test Type: Draw Down
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934387341
Test Type: Draw Down
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933477877
Layer: 2

Kind Code: 1
Kind: FRESH
Water Found Depth: 49
Water Found Depth UOM: ft

Water ID: 933477876
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 33
Water Found Depth UOM: ft

Site:
lot 11 ON

Database:
WWIS

Well ID: 1531176
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 206814
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/12/2000
Selected Flag: Yes
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052710
DP2BR: 25
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 26-MAY-00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931077739
Layer: 2
Color: 2
General Color: GREY
Mat1: 22
Most Common Material: GREENSTONE
Mat2: 73
Other Materials: HARD
Mat3:

Other Materials:
Formation Top Depth: 25
Formation End Depth: 45
Formation End Depth UOM: ft

Formation ID: 931077738
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3: 85
Other Materials: SOFT
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

Formation ID: 931077740
Layer: 3
Color: 1
General Color: WHITE
Mat1: 21
Most Common Material: GRANITE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 60
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933116347
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961531176
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601280
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092146
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930092147
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531176
Pump Set At:
Static Level: 7
Final Level After Pumping: 50
Recommended Pump Depth: 55
Pumping Rate: 35
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934665280
Test Type: Recovery
Test Duration: 45
Test Level: 7
Test Level UOM: ft

Pump Test Detail ID: 934396554
Test Type: Recovery
Test Duration: 30
Test Level: 7
Test Level UOM: ft

Pump Test Detail ID: 934913408
Test Type: Recovery
Test Duration: 60
Test Level: 7
Test Level UOM: ft

Pump Test Detail ID: 934121143
Test Type: Recovery
Test Duration: 15
Test Level: 7
Test Level UOM: ft

Water Details

Water ID: 933491539
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 30

Water Found Depth UOM: ft
Water ID: 933491540
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 45
Water Found Depth UOM: ft

Site:
lot 11 ON

Database:
WWIS

Well ID: 1520592
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Recharge Well
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/21/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042434
DP2BR: 4
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 02-JUL-86
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931045245
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0
Formation End Depth: 4

Formation End Depth UOM: ft
Formation ID: 931045246
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 78
Other Materials: MEDIUM-GRAINED
Mat3: 73
Other Materials: HARD
Formation Top Depth: 4
Formation End Depth: 30
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109162
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961520592
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591004
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074065
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930074064
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520592

Pump Set At:
Static Level: 4
Final Level After Pumping: 20
Recommended Pump Depth: 20
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934648365
Test Type: Draw Down
Test Duration: 45
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934387342
Test Type: Draw Down
Test Duration: 30
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934112479
Test Type: Draw Down
Test Duration: 15
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934906147
Test Type: Draw Down
Test Duration: 60
Test Level: 20
Test Level UOM: ft

Water Details

Water ID: 933477878
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27
Water Found Depth UOM: ft

Site:
 lot 11 ON

Database:
 WWIS

Well ID: 1521489
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07100
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src: 1
Date Received: 7/2/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043311
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 02-JUN-87
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931048222
Layer: 3
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2: 46
Other Materials: QUARTZ
Mat3: 73
Other Materials: HARD
Formation Top Depth: 70
Formation End Depth: 115
Formation End Depth UOM: ft

Formation ID: 931048223
Layer: 4
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 115
Formation End Depth: 125
Formation End Depth UOM: ft

Formation ID: 931048221
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 90
Other Materials: VERY
Mat3: 73

Other Materials: HARD
Formation Top Depth: 38
Formation End Depth: 70
Formation End Depth UOM: ft

Formation ID: 931048220
Layer: 1
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 90
Other Materials: VERY
Mat3: 73
Other Materials: HARD
Formation Top Depth: 0
Formation End Depth: 38
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109483
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961521489
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591881
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075643
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930075644
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 125
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521489
Pump Set At:
Static Level: 3
Final Level After Pumping: 55
Recommended Pump Depth: 55
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 7
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934390654
Test Type: Draw Down
Test Duration: 30
Test Level: 55
Test Level UOM: ft

Pump Test Detail ID: 934651798
Test Type: Draw Down
Test Duration: 45
Test Level: 55
Test Level UOM: ft

Pump Test Detail ID: 934106554
Test Type: Draw Down
Test Duration: 15
Test Level: 55
Test Level UOM: ft

Pump Test Detail ID: 934908889
Test Type: Draw Down
Test Duration: 60
Test Level: 55
Test Level UOM: ft

Water Details

Water ID: 933479075
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 117
Water Found Depth UOM: ft

Water ID: 933479074
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

Site:
lot 100 ON

Database:
WWIS

Well ID: 1525686
Construction Date:

Data Entry Status:
Data Src: 1

Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 68566
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:

Date Received: 10/21/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 100
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047421
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 04-APR-91
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931062012
Layer: 1
Color: 8
General Color: BLACK
Mat1: 21
Most Common Material: GRANITE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 263
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961525686
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595991

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083010
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 263
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930083009
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525686
Pump Set At:
Static Level: 40
Final Level After Pumping: 255
Recommended Pump Depth: 255
Pumping Rate: 2
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934388720
Test Type:
Test Duration: 30
Test Level: 255
Test Level UOM: ft

Pump Test Detail ID: 934105061
Test Type:
Test Duration: 15
Test Level: 255
Test Level UOM: ft

Pump Test Detail ID: 934649258
Test Type:
Test Duration: 45
Test Level: 255
Test Level UOM: ft

Pump Test Detail ID: 934906438

Test Type:
Test Duration: 60
Test Level: 255
Test Level UOM: ft

Water Details

Water ID: 933484743
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 258
Water Found Depth UOM: ft

Water ID: 933484742
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 160
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1518764
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/10/1984
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10040634
DP2BR: 88
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 25-NOV-83
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931039483
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 44
Formation End Depth: 88
Formation End Depth UOM: ft

Formation ID: 931039484
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 82
Other Materials: SHALY
Mat3:
Other Materials:
Formation Top Depth: 88
Formation End Depth: 105
Formation End Depth UOM: ft

Formation ID: 931039482
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 44
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961518764
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10589204
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930070942
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 90
Casing Diameter: 6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930070943
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991518764
Pump Set At:
Static Level: 0
Final Level After Pumping: 20
Recommended Pump Depth: 20
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934103240
Test Type:
Test Duration: 15
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934380498
Test Type:
Test Duration: 30
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934650481
Test Type:
Test Duration: 45
Test Level: 20
Test Level UOM: ft

Pump Test Detail ID: 934900018
Test Type:
Test Duration: 60
Test Level: 20
Test Level UOM: ft

Water Details

Water ID: 933475561
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 100
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1521613
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07137
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/17/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043435
DP2BR: 98
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 29-MAY-87
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931048632
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 48
Formation End Depth: 98
Formation End Depth UOM: ft

Formation ID: 931048631
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY

Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 48
Formation End Depth UOM: ft

Formation ID: 931048634
Layer: 4
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 90
Other Materials: VERY
Mat3: 85
Other Materials: SOFT
Formation Top Depth: 180
Formation End Depth: 225
Formation End Depth UOM: ft

Formation ID: 931048633
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 98
Formation End Depth: 180
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521613
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592005
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075880
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 225
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930075879
Layer: 1
Material: 1

Open Hole or Material: STEEL
Depth From:
Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521613
Pump Set At:
Static Level: 25
Final Level After Pumping: 210
Recommended Pump Depth: 210
Pumping Rate: 2
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934107088
Test Type:
Test Duration: 15
Test Level: 210
Test Level UOM: ft

Pump Test Detail ID: 934390770
Test Type:
Test Duration: 30
Test Level: 210
Test Level UOM: ft

Pump Test Detail ID: 934909981
Test Type:
Test Duration: 60
Test Level: 210
Test Level UOM: ft

Pump Test Detail ID: 934652331
Test Type:
Test Duration: 45
Test Level: 210
Test Level UOM: ft

Water Details

Water ID: 933479252
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 190
Water Found Depth UOM: ft

Site: lot 10 ON

Database:
WWIS

Well ID: 1521663
Construction Date:

Data Entry Status:
Data Src: 1

Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 08597
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:

Date Received: 8/14/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043485
DP2BR: 59
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 28-JUL-87
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931048779
Layer: 4
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 150
Formation End Depth: 225
Formation End Depth UOM: ft

Formation ID: 931048778
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 59
Formation End Depth: 150
Formation End Depth UOM: ft

Formation ID: 931048777
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 59
Formation End Depth UOM: ft

Formation ID: 931048776
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 45
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521663
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592055
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075978
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 62
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930075979
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 225
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521663
Pump Set At:
Static Level: 50
Final Level After Pumping: 220
Recommended Pump Depth: 220
Pumping Rate: 3
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934107556
Test Type:
Test Duration: 15
Test Level: 220
Test Level UOM: ft

Pump Test Detail ID: 934391799
Test Type:
Test Duration: 30
Test Level: 220
Test Level UOM: ft

Pump Test Detail ID: 934652800
Test Type:
Test Duration: 45
Test Level: 220
Test Level UOM: ft

Pump Test Detail ID: 934910031
Test Type:
Test Duration: 60
Test Level: 220
Test Level UOM: ft

Water Details

Water ID: 933479327
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 215
Water Found Depth UOM: ft

Site: lot 10 ON

Database:
WWIS

Well ID: 1524141
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 49834
Tag:

Data Entry Status:
Data Src: 1
Date Received: 1/26/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:

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:

County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045913
DP2BR: 6
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 27-JUL-89
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931056978
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 90
Other Materials: VERY
Mat3: 73
Other Materials: HARD
Formation Top Depth: 6
Formation End Depth: 80
Formation End Depth UOM: ft

Formation ID: 931056977
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961524141
Method Construction Code: 5

Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594483
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080380
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930080379
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524141
Pump Set At:
Static Level: 8
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934107722
Test Type:
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934391951
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934652921
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Pump Test Detail ID: 934910121
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933482686
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 75
Water Found Depth UOM: ft

Water ID: 933482685
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

Site: lot 10 ON

Database:
WWIS

Well ID: 1524851
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 68406
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/17/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046594
DP2BR: 0
Spatial Status:
Code OB: h
Code OB Desc: Mixed in a Layer
Open Hole:
Cluster Kind:
Date Completed: 12-JUL-90
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock
Materials Interval

Formation ID: 931059281
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 18
Formation End Depth UOM: ft

Formation ID: 931059280
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 26
Other Materials: ROCK
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Formation ID: 931059282
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 18
Formation End Depth: 63
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961524851
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595164
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930081576
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930081577
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 63
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524851
Pump Set At:
Static Level: 10
Final Level After Pumping: 45
Recommended Pump Depth: 45
Pumping Rate: 25
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934110030
Test Type:
Test Duration: 15
Test Level: 45
Test Level UOM: ft

Pump Test Detail ID: 934385439
Test Type:
Test Duration: 30
Test Level: 45
Test Level UOM: ft

Pump Test Detail ID: 934655217
Test Type:
Test Duration: 45
Test Level: 45
Test Level UOM: ft

Pump Test Detail ID: 934903594
Test Type:
Test Duration: 60
Test Level: 45
Test Level UOM: ft

Water Details

Water ID: 933483612
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 57
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
[WWIS](#)

Well ID: 1524853
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Recharge Well
Water Type:
Casing Material:
Audit No: 68407
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/17/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046596
DP2BR: 5
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 12-JUL-90
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931059285
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5

Formation End Depth UOM: ft
Formation ID: 931059286
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 19
Formation End Depth UOM: ft

Formation ID: 931059287
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 19
Formation End Depth: 75
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961524853
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595166
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930081580
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930081581
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524853
Pump Set At:
Static Level: 10
Final Level After Pumping: 50
Recommended Pump Depth: 50
Pumping Rate: 15
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934110032
Test Type:
Test Duration: 15
Test Level: 50
Test Level UOM: ft

Pump Test Detail ID: 934385441
Test Type:
Test Duration: 30
Test Level: 50
Test Level UOM: ft

Pump Test Detail ID: 934655219
Test Type:
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Pump Test Detail ID: 934903596
Test Type:
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933483615
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1524890
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 56337

Data Entry Status:
Data Src: 1
Date Received: 9/17/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:

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

Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046633
DP2BR: 106
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 25-APR-90
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 931059404
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 10
Formation End Depth UOM: ft

Formation ID: 931059407
Layer: 4
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2: 71
Other Materials: FRACTURED
Mat3:
Other Materials:
Formation Top Depth: 106
Formation End Depth: 108
Formation End Depth UOM: ft

Formation ID: 931059406
Layer: 3
Color: 2
General Color: GREY
Mat1: 14

Most Common Material: HARDPAN
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 90
Formation End Depth: 106
Formation End Depth UOM: ft

Formation ID: 931059405
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 90
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961524890
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595203
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930081654
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 108
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524890
Pump Set At:
Static Level: 0
Final Level After Pumping: 60
Recommended Pump Depth: 60
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1

Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934385896
Test Type:
Test Duration: 30
Test Level: 60
Test Level UOM: ft

Pump Test Detail ID: 934110488
Test Type:
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Pump Test Detail ID: 934903633
Test Type:
Test Duration: 60
Test Level: 60
Test Level UOM: ft

Pump Test Detail ID: 934655256
Test Type:
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Water Details

Water ID: 933483660
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 108
Water Found Depth UOM: ft

Site: lot 10 ON

Database:
WWIS

Well ID: 1528729
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 153017
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/21/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050265 Elevation:

DP2BR: 6
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 14-AUG-95
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931070612
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 18
Other Materials: SANDSTONE
Mat3:
Other Materials:
Formation Top Depth: 6
Formation End Depth: 80
Formation End Depth UOM: ft

Formation ID: 931070611
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933113669
Layer: 1
Plug From: 7
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961528729
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10598835
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087844
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528729
Pump Set At:
Static Level: 6
Final Level After Pumping: 80
Recommended Pump Depth: 60
Pumping Rate: 50
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934649367
Test Type: Recovery
Test Duration: 45
Test Level: 6
Test Level UOM: ft

Pump Test Detail ID: 934388850
Test Type: Recovery
Test Duration: 30
Test Level: 8
Test Level UOM: ft

Pump Test Detail ID: 934105224
Test Type: Recovery
Test Duration: 15
Test Level: 11
Test Level UOM: ft

Pump Test Detail ID: 934906549
Test Type: Recovery
Test Duration: 60
Test Level: 6
Test Level UOM: ft

Water Details

Water ID: 933488548

Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 75
Water Found Depth UOM: ft

Water ID: 933488547
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1535825
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z17653
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 9/29/2005
Selected Flag: Yes
Abandonment Rec:
Contractor: 6907
Form Version: 3
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11316364
DP2BR:
Spatial Status:
Code OB: u
Code OB Desc: all layers are unknown type
Open Hole:
Cluster Kind:
Date Completed: 22-SEP-05
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
Org CS:
North83:
UTMRC:
UTMRC Desc:
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 932997253
Layer: 1
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Other Materials:

Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 19
Formation End Depth UOM: ft

Formation ID: 932997254
Layer: 2
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 19
Formation End Depth: 77
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961535825
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11331219
Casing No: 1
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 11345704
Pump Set At: 75
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Site: con 4 ON

Database:
WWIS

Well ID: 1530124
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 194690
Tag:

Data Entry Status:
Data Src: 1
Date Received: 8/14/1998
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:

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:

County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot:
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051659
DP2BR: 23
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 23-JUL-98
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931074585
Layer: 5
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 95
Formation End Depth: 105
Formation End Depth UOM: ft

Formation ID: 931074581
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Formation ID: 931074584
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE

Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 23
Formation End Depth: 95
Formation End Depth UOM: ft

Formation ID: 931074583
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY

Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 17
Formation End Depth: 23
Formation End Depth UOM: ft

Formation ID: 931074582
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 4
Formation End Depth: 17
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115250
Layer: 1
Plug From: 26
Plug To: 0
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530124
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600229
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090016
Layer: 1
Material: 1

Open Hole or Material: STEEL
Depth From:
Depth To: 26
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930090017
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530124
Pump Set At:
Static Level: 23
Final Level After Pumping: 100
Recommended Pump Depth: 85
Pumping Rate: 12
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934392307
Test Type: Recovery
Test Duration: 30
Test Level: 23
Test Level UOM: ft

Pump Test Detail ID: 934117747
Test Type: Recovery
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Pump Test Detail ID: 934661882
Test Type: Recovery
Test Duration: 45
Test Level: 23
Test Level UOM: ft

Pump Test Detail ID: 934910424
Test Type: Recovery
Test Duration: 60
Test Level: 23
Test Level UOM: ft

Water Details

Water ID: 933490175
Layer: 1

Kind Code: 5
Kind: Not stated
Water Found Depth: 40
Water Found Depth UOM: ft

Water ID: 933490176
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 93
Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1521190
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 02155
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/10/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043026
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 28-NOV-86
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931047134
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 11
Other Materials: GRAVEL
Mat3:

Other Materials:
Formation Top Depth: 54
Formation End Depth: 80
Formation End Depth UOM: ft

Formation ID: 931047133
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 54
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521190
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591596
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075107
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521190
Pump Set At:
Static Level: 2
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934908365
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934389008
Test Type:
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934105889
Test Type:
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934651136
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933478678
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 80
Water Found Depth UOM: ft

Site: lot 10 ON

Database:
[WWIS](#)

Well ID: 1522769
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 27111
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/26/1988
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10044578
DP2BR: 5
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:

Open Hole:
Cluster Kind:
Date Completed: 16-SEP-88
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931052522
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Formation ID: 931052523
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 60
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961522769
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10593148
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930077965
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930077966
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 60
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991522769
Pump Set At:
Static Level: 6
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934647917
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934111511
Test Type:
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934905125
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Pump Test Detail ID: 934386934
Test Type:
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933480789
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55

Water Found Depth UOM: ft

Site:
lot 10 ON

Database:
WWIS

Well ID: 1532192
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 234540
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/28/2001
Selected Flag: Yes
Abandonment Rec:
Contractor: 4609
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 010
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10516642
DP2BR: 3
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 19-JUL-01
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 932832124
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 77
Other Materials: LOOSE
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Formation ID: 932832125
Layer: 2
Color: 2
General Color: GREY
Mat1: 18

Most Common Material: SANDSTONE
Mat2: 74
Other Materials: LAYERED
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 60
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933219647
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961532192
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11065212
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930094298
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930094297
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991532192
Pump Set At:
Static Level: 10
Final Level After Pumping: 60
Recommended Pump Depth: 40
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20

Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934115768
Test Type: Recovery
Test Duration: 15
Test Level: 15
Test Level UOM: ft

Pump Test Detail ID: 934917208
Test Type: Recovery
Test Duration: 60
Test Level: 10
Test Level UOM: ft

Pump Test Detail ID: 934660322
Test Type: Recovery
Test Duration: 45
Test Level: 11
Test Level UOM: ft

Pump Test Detail ID: 934399383
Test Type: Recovery
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Water Details

Water ID: 934008317
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 50
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2017

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Jan 31, 2018

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial [CA](#)

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial [CFOT](#)

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

Government Publication Date: Feb 28, 2017

Chemical Register:

Private [CHEM](#)

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2018

Compressed Natural Gas Stations:

Private [CNG](#)

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

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial [COAL](#)

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial [CONV](#)

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

Government Publication Date: 1989-Nov 2017

Certificates of Property Use:

Provincial [CPU](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Apr 30, 2018

Drill Hole Database:

Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Nov 30, 2017

Dry Cleaning Facilities:

Federal [DRYCLEANERS](#)

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2016

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Apr 30, 2018

Environmental Registry:Provincial **EBR**

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Apr 30, 2018**Environmental Compliance Approval:**Provincial **ECA**

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Apr 30, 2018**Environmental Effects Monitoring:**Federal **EEM**

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007***ERIS Historical Searches:**Private **EHS**

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Feb 28, 2018**Environmental Issues Inventory System:**Federal **EIIS**

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001***Emergency Management Historical Event:**Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016**List of TSSA Expired Facilities:**Provincial **EXP**

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017**Federal Convictions:**Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Mar 2018

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank:

Provincial

FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-December 31, 2017

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial **INC**

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial **LIMO**

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private **MINE**

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Environmental Penalty Annual Report:

Provincial **MISA PENALTY**

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, 2017

Mineral Occurrences:

Provincial **MNR**

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Jan 2018

National Analysis of Trends in Emergencies System (NATES):

Federal **NATE**

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial **NCPL**

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2016

National Defense & Canadian Forces Fuel Tanks:

Federal **NDFT**

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Mar 31, 2018

National Energy Board Wells:

Federal

NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-December 31, 2017

Ontario Oil and Gas Wells:

Provincial

OGGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2017

Inventory of PCB Storage Sites:

Provincial [OPCB](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial [ORD](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Apr 30, 2018

Canadian Pulp and Paper:

Private [PAP](#)

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

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

Parks Canada Fuel Storage Tanks:

Federal [PCFT](#)

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial [PES](#)

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

Government Publication Date: 1988-Mar 2018

TSSA Pipeline Incidents:

Provincial [PINC](#)

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial [PRT](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial [PTTW](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Apr 30, 2018

Ontario Regulation 347 Waste Receivers Summary:

Provincial [REC](#)

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

<u>Record of Site Condition:</u>	Provincial	RSC
The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).		
Government Publication Date: 1997-Sept 2001, Oct 2004-Apr 2018		
<u>Retail Fuel Storage Tanks:</u>	Private	RST
This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.		
Government Publication Date: 1999-Jan 31, 2018		
<u>Scott's Manufacturing Directory:</u>	Private	SCT
Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.		
Government Publication Date: 1992-Mar 2011*		
<u>Ontario Spills:</u>	Provincial	SPL
This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.		
Government Publication Date: 1988-Feb 2018		
<u>Wastewater Discharger Registration Database:</u>	Provincial	SRDS
Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).		
Government Publication Date: 1990-Dec 31, 2016		
<u>Anderson's Storage Tanks:</u>	Private	TANK
The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.		
Government Publication Date: 1915-1953*		
<u>Transport Canada Fuel Storage Tanks:</u>	Federal	TCFT
List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.		
Government Publication Date: 1970-Aug 2017		
<u>TSSA Variances for Abandonment of Underground Storage Tanks:</u>	Provincial	VAR
List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.		
Government Publication Date: Feb 28, 2017		
<u>Waste Disposal Sites - MOE CA Inventory:</u>	Provincial	WDS
The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.		
Government Publication Date: Oct 2011-Apr 30, 2018		

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31, 2017

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

75°56'30"W

75°56'W

75°55'30"W

75°55'W

75°54'30"W

75°54'W

★ Site / Boundary 2000m Buffer

Source: Ontario Geological Survey 2010.
 Surficial geology of southern Ontario;
 Ontario Geological Survey, Miscellaneous
 Release—Data 128 – Revised

45°22'30"N

45°22'N

45°21'30"N

45°21'N

45°20'30"N

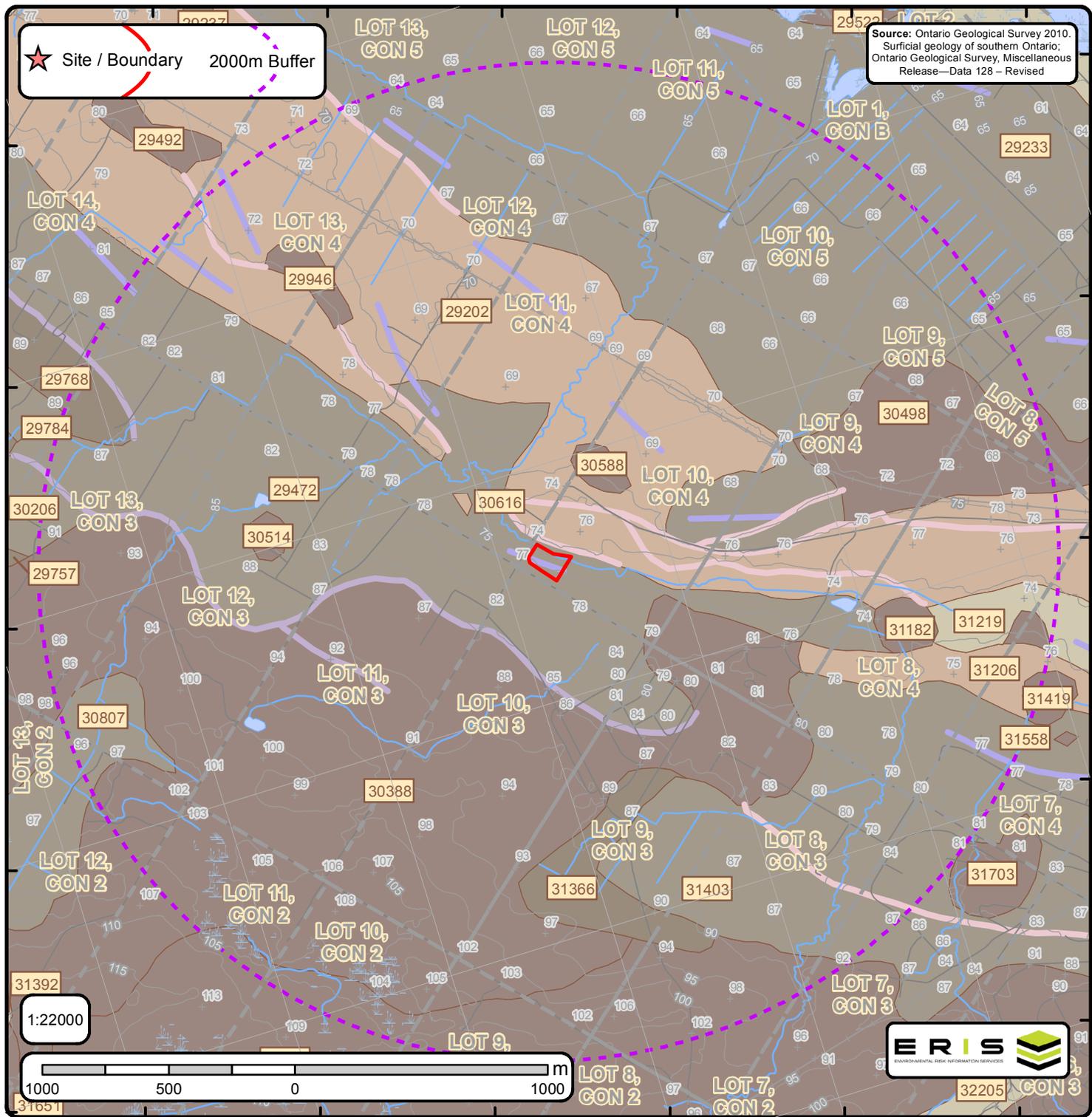
45°22'N

45°21'30"N

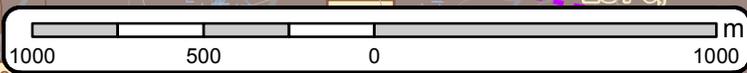
45°21'N

45°20'30"N

45°20'N



1:22000



The Surficial Geology of Southern Ontario Order No. 20180618029

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



ID: 29202 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels

ID: 29233 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 29472 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to varia

ID: 29768 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 29784 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a



ID: 29946 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 30206 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 30249 | **Unit Name:** Bedrock |
Deposit Type Code: Pr | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Precambrian Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Intrusive and metamorphic rocks (Precambrian); mainly bare, hummocky, rolling or hilly rock knob upland; includes areas thinly veneered by unconsolidated sediments up to 2 m thick.

ID: 30388 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 30498 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



ID: 30514 | Unit Name: Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 30588 | Unit Name: Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 30616 | Unit Name: Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels

ID: 30807 | Unit Name: Offshore marine deposits |
Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 31182 | Unit Name: Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



ID: 31206 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels

ID: 31219 | **Unit Name:** Organic deposits |
Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 31298 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 31366 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 31403 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a



ID: 31419 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 31703 | **Unit Name:** Bedrock |
Deposit Type Code: Pr | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Precambrian Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Intrusive and metamorphic rocks (Precambrian); mainly bare, hummocky, rolling or hilly rock knob upland; includes areas thinly veneered by unconsolidated sediments up to 2 m thick.



ID - ID applied to the Unit

Unit Name - Name of deposit

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

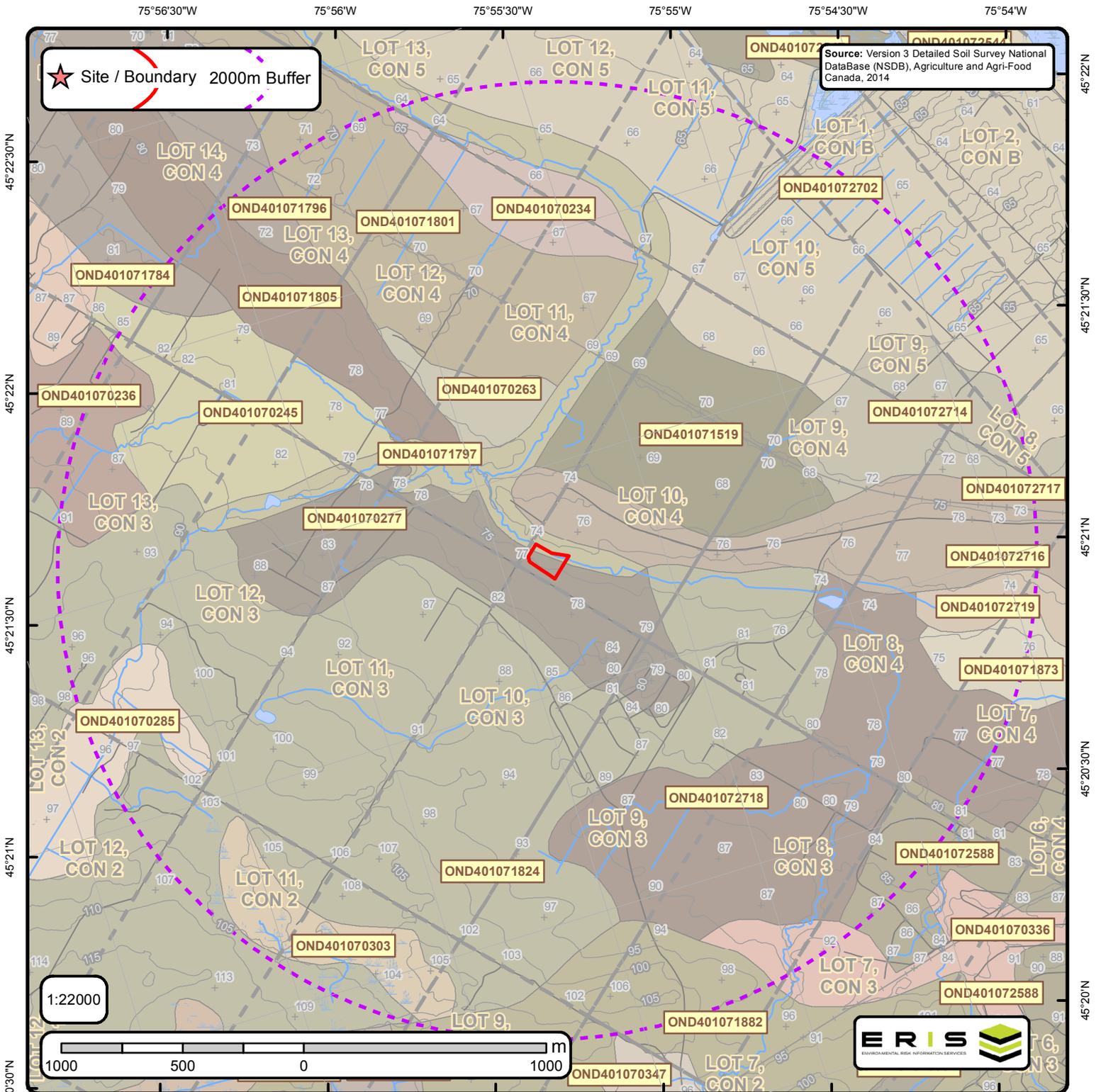
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

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

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

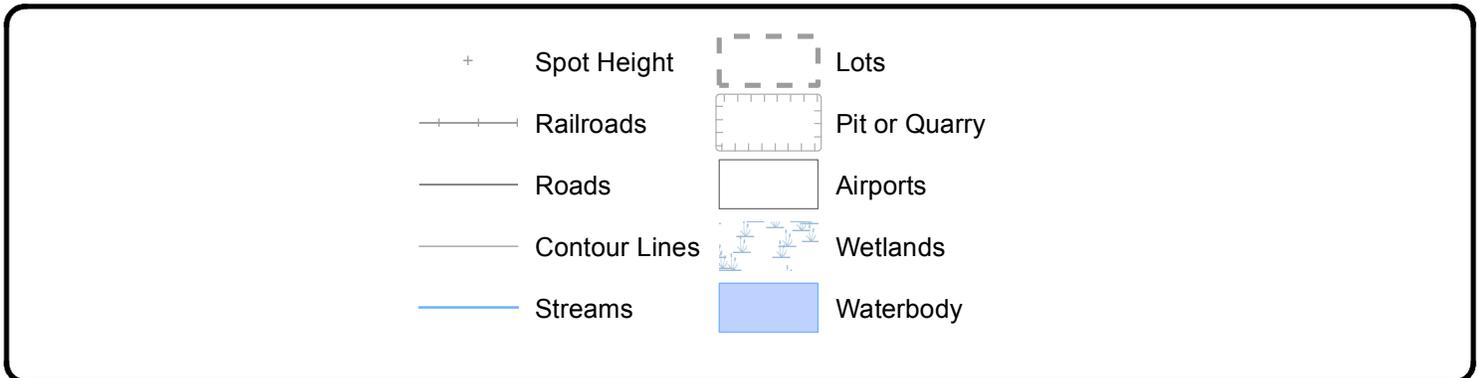
Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

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



Detailed Soil Survey (ON Soils)

Order No. 20180618029





Soil ID: OND401070263

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070263

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCST~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 30 | **Total Silt(%)** : 59 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.6 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.156 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-35 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 36 | **Total Sand(%)** : 38 | **Total Silt(%)** : 48 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.847 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 35-110 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 66 | **Total Sand(%)** : 67 | **Total Silt(%)** : 30 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 5.398 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071805

Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONSHO~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : OND401071805-ONSHO~~~~~N | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -5-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 40.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 83 | **Total Silt(%)** : 9 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 10.3 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 2.981 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-26 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.598 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 26-64 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.996 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 64-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 99 | **Total Silt(%)** : 0 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 7.865 | **Electrical Conductivity(dS/m)** : 0 |



Soils Report

Soil Map Units Found within 2000 m of
788 March Road, Kanata, ON, K2K 1X7



Soil ID: OND401071805

Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONSHO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-4 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 83 | **Total Silt(%)** : 9 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 10.3 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 2.981 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 4-26 | **Horizon** : Bf | **Layer No** : 2 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.598 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 26-64 | **Horizon** : BC | **Layer No** : 3 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.996 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 64-100 | **Horizon** : C | **Layer No** : 4 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 99 | **Total Silt(%)** : 0 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 7.865 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401071801

Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONVUD~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 46 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 3.869 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-31 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 82 | **Total Silt(%)** : 15 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.065 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-63 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.127 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-78 | **Horizon** : Bg | **Layer No** : 4 | **Very Fine Sand(%)** : 44 | **Total Sand(%)** : 86 | **Total Silt(%)** : 7 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.942 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 78-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.172 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401071801

Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**



Soil ID: OND401070303

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071824

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401071824

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soils Report

Soil Map Units Found within 2000 m of
788 March Road, Kanata, ON, K2K 1X7



Soil ID: OND401070236

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070236

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401070234

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **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** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071882

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONAUH~~~~~N | **Surface Stoniness Class** : Exceedingly stony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-9 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 78 | **Total Silt(%)** : 14 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 5.8 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 7.472 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 9-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 81 | **Total Silt(%)** : 16 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.775 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-100 | **Horizon** : R | **Layer No** : 3 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072716

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONSHO~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : -5-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 40.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 83 | **Total Silt(%)** : 9 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 10.3 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 2.981 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-26 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.598 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 26-64 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.996 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 64-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 99 | **Total Silt(%)** : 0 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 7.865 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072714

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Exceedingly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071796

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071796

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONVUD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 46 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 3.869 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-31 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 82 | **Total Silt(%)** : 15 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.065 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-63 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.127 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-78 | **Horizon** : Bg | **Layer No** : 4 | **Very Fine Sand(%)** : 44 | **Total Sand(%)** : 86 | **Total Silt(%)** : 7 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.942 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 78-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.172 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070336

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401070336

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONAUH~~~~~N | **Surface Stoniness Class** : Exceedingly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-9 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 78 | **Total Silt(%)** : 14 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 5.8 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 7.472 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 9-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 81 | **Total Silt(%)** : 16 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.775 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-100 | **Horizon** : R | **Layer No** : 3 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401070277

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072719

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |



Soils Report

Soil Map Units Found within 2000 m of
788 March Road, Kanata, ON, K2K 1X7



Soil ID: OND401072718

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072718

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072588

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable



Soil ID: OND401071797

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070285

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070285

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071873

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONSHO~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : -5-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 40.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 83 | **Total Silt(%)** : 9 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 10.3 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 2.981 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 4-26 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.598 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 26-64 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.996 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 64-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 99 | **Total Silt(%)** : 0 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 7.865 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072702

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **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** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071519

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONVUD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 46 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 3.869 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-31 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 82 | **Total Silt(%)** : 15 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.065 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-63 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.127 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-78 | **Horizon** : Bg | **Layer No** : 4 | **Very Fine Sand(%)** : 44 | **Total Sand(%)** : 86 | **Total Silt(%)** : 7 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.942 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 78-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.172 | **Electrical Conductivity(dS/m)** : 0 |



Soils Report

Soil Map Units Found within 2000 m of
788 March Road, Kanata, ON, K2K 1X7



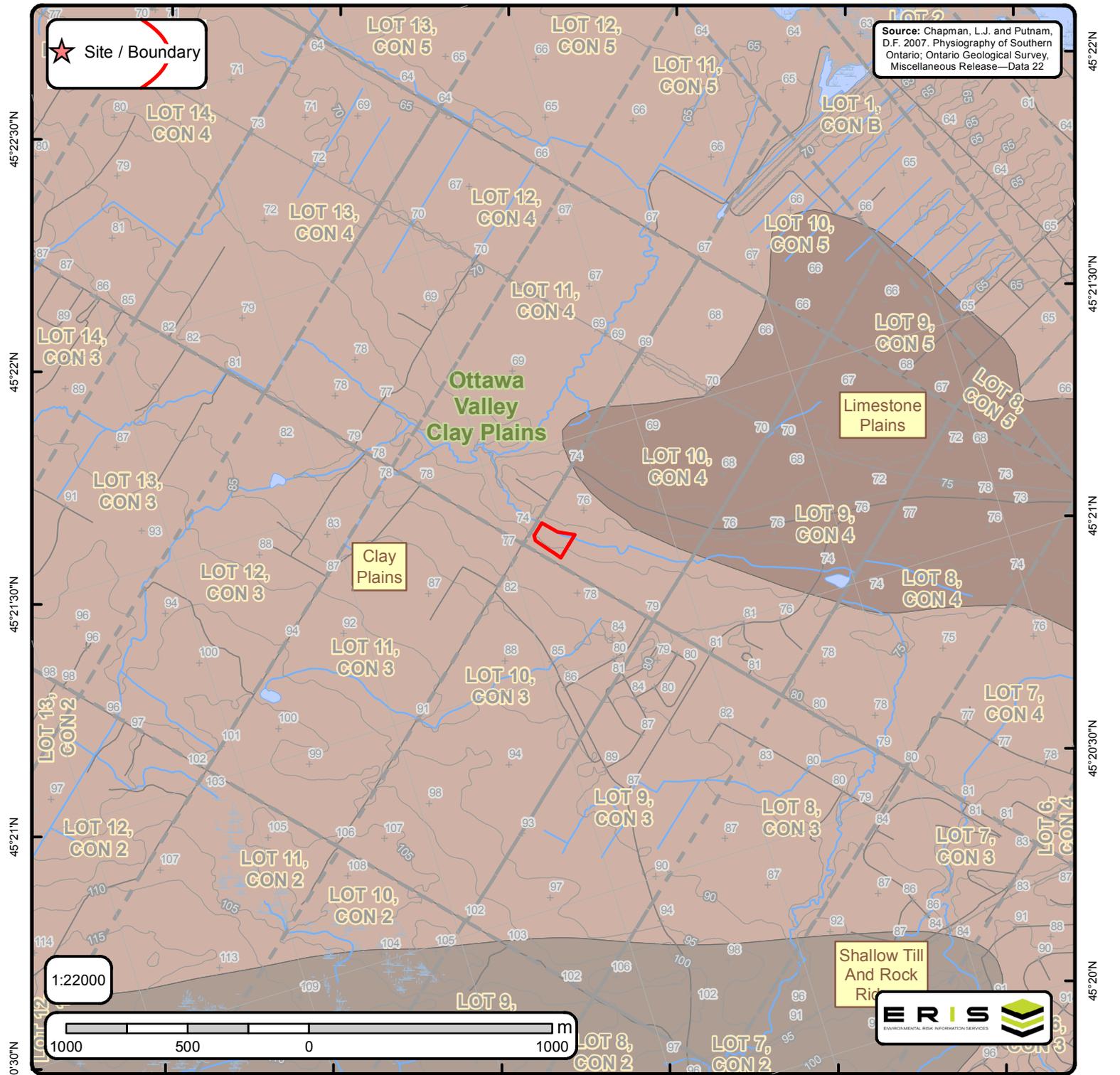
Soil ID: OND401071519

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**

Soil ID: OND401070245

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

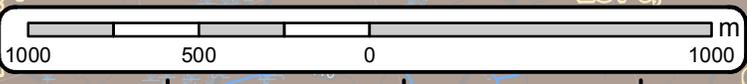
75°56'30"W 75°56'W 75°55'30"W 75°55'W 75°54'30"W 75°54'W



Source: Chapman, L.J. and Putnam, D.F. 2007. Physiography of Southern Ontario: Ontario Geological Survey, Miscellaneous Release—Data 22

★ Site / Boundary

1:22000

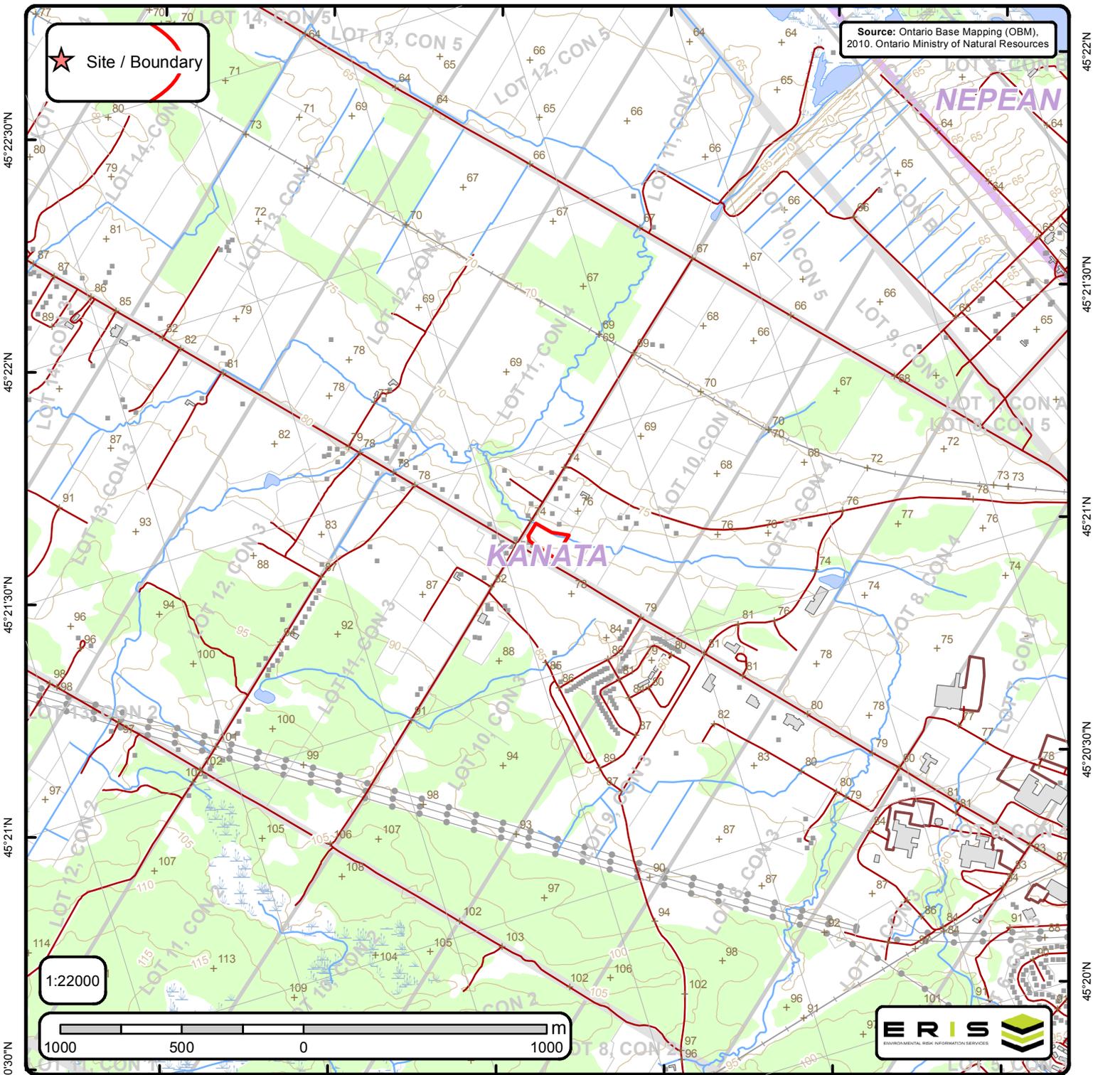


Physiography of Southern Ontario

Order No. 20180618029

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

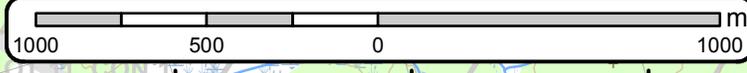
75°56'30"W 75°56'W 75°55'30"W 75°55'W 75°54'30"W 75°54'W



Source: Ontario Base Mapping (OBM), 2010. Ontario Ministry of Natural Resources

★ Site / Boundary

1:22000



Ontario Base Mapping (OBM) Data

Order No. 20180618029

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

75°56'30"W

75°56'W

75°55'30"W

75°55'W

75°54'30"W

75°54'W

45°22'30"N

45°22'N

45°21'30"N

45°21'N

45°20'30"N

45°22'N

45°21'30"N

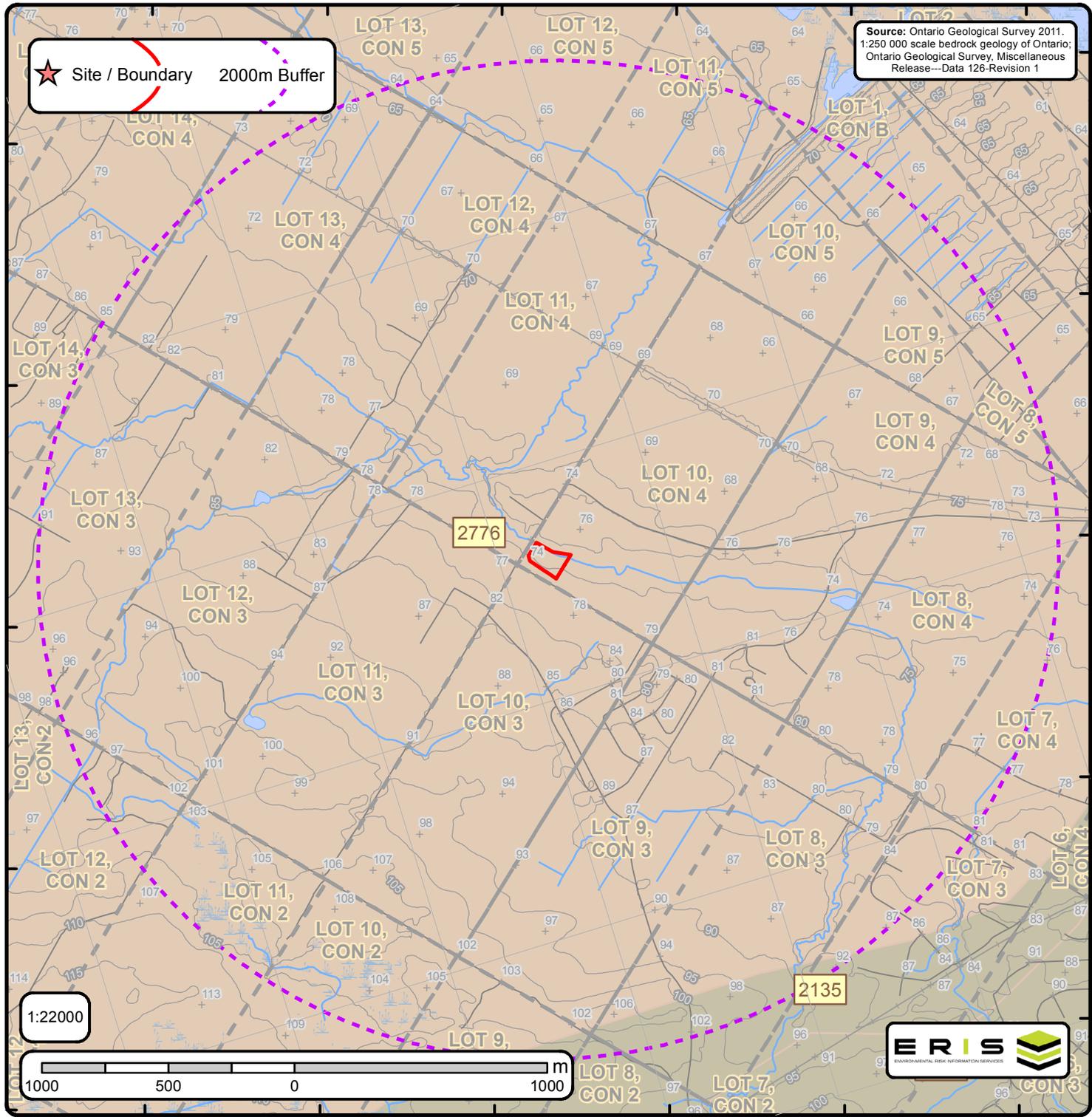
45°21'N

45°20'30"N

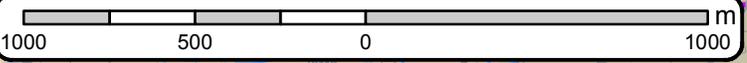
45°20'N

★ Site / Boundary 2000m Buffer

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



1:22000



Bedrock Geology of Ontario

Order No. 20180618029

<ul style="list-style-type: none"> + Spot Height — Roads — Contour Lines — Streams — Railroads — Lots — Pit or Quarry — Airports — Waterbody — Wetlands 	<p>Bedrock Geology Lines</p> <ul style="list-style-type: none"> — CONTACT, GEOPHYSICAL, TREND, INTERPRETED — CONTACT, SHARP, TREND, INTERPRETED — CONTACT, SHARP, TREND, OBSERVED — FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION — FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION — FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION — FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION — FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION — FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION — FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION — FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION — NEATLINE — ONTARIO BORDER — Marble, chert, iron formation, minor metavolcanic rocks 	<p>Dikes</p> <ul style="list-style-type: none"> — Abitibi mafic dike — Biscotasing mafic dike — Empey Lake mafic dike — Felsic to intermediate intrusive rocks — Fort Frances mafic dike — Frontenac mafic dike — Grenville mafic dike — Logan and Nipigon mafic sills — Mackenzie mafic dike — Mafic dikes of uncertain age — Mafic sills and dikes — Marathon mafic dike — Marathon, Kapuskasing or Biscotasing mafic dike — Matachewan mafic dike — Mine Centre mafic dike — Molson mafic dike — North Channel mafic dike — Pickle Crow mafic dike (Molson swarm) normal — Pickle Crow mafic dike (Molson swarm) reverse — Rideau mafic dike — Sudbury mafic dike — Ultramafic, gabbroic and granophytic intrusions — Unsubdivided mafic dike — Unsubdivided mafic dike (Keweenaw age) — unknown 	<p>C Lines</p> <ul style="list-style-type: none"> — FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION — FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION — FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION — FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION — FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION — FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION — FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION <p>▲ Kimberlite</p>
---	---	---	---



ID: 2776 | **Unit Name:** |
Type (All): 53 | **Type (Primary):** 53 | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Dolostone, sandstone | **Strata (Primary):** Beekmantown Group | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** LOWER ORDOVICIAN | **Province (Primary):**

ID: 2135 | **Unit Name:** Clastic metasedimentary rocks |
Type (All): 45 | **Type (Primary):** 45 | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Conglomerate, wacke, quartz arenite, arkose, limestone, siltstone, chert, minor iron formation, minor metavolcanic rocks | **Strata (Primary):** Grenville Supergroup and Flinton Group (ask Mike if this covers any other units) | **Super Eon (Primary):** PRECAMBRIAN (0.542 Ga to <3.85 Ga) | **Eon (Primary):** PROTEROZOIC (0.542 Ga to 2.50 Ga) | **Era (Primary):** NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga) | **Period (Primary):** | **Epoch (Primary):** | **Province (Primary):** GRENVILLE



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

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

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

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

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

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

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

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

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

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

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

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

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

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

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

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

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

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

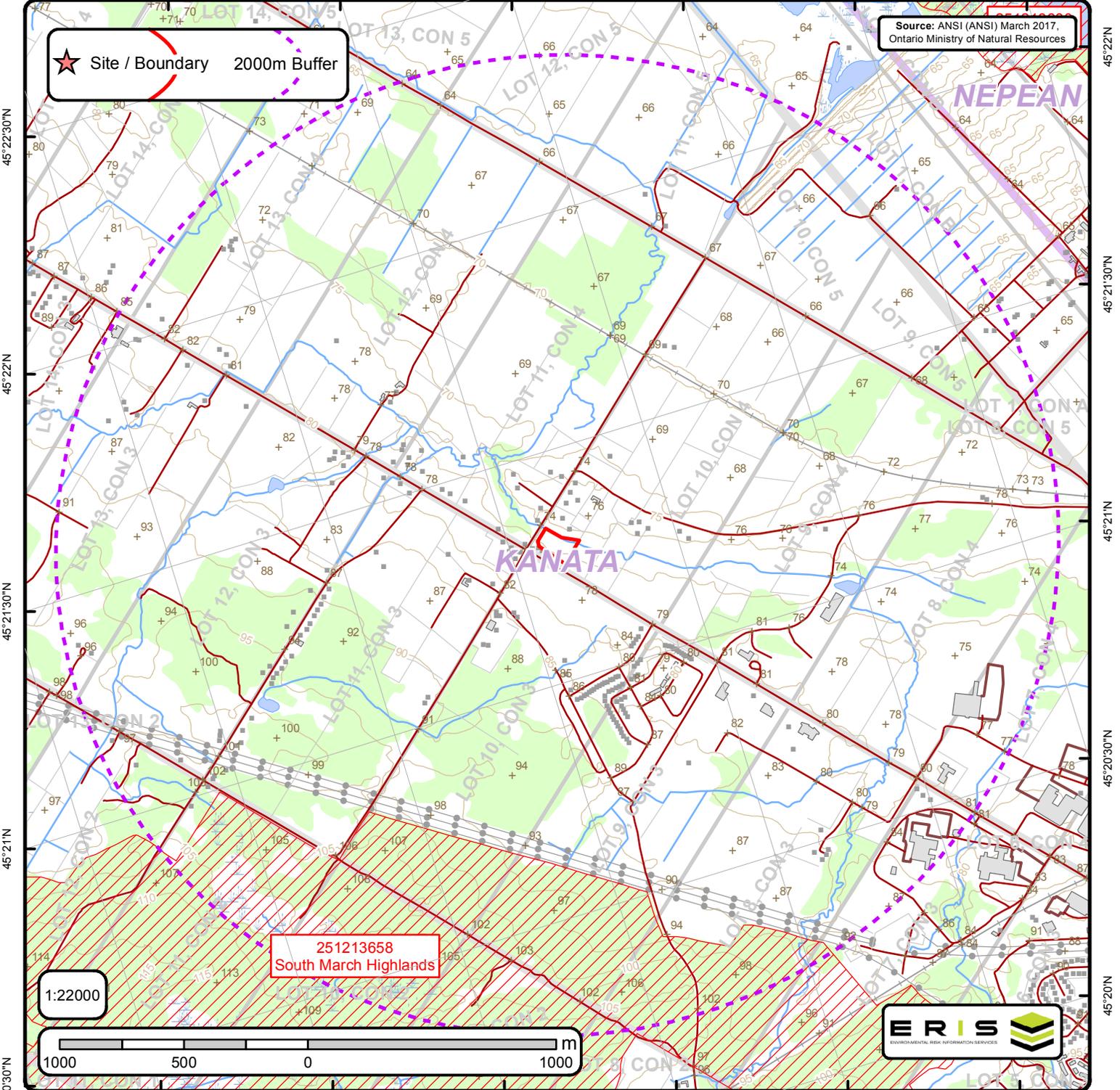
Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE

75°56'30"W 75°56'W 75°55'30"W 75°55'W 75°54'30"W 75°54'W

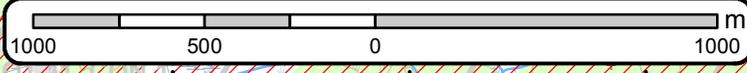
Source: ANSI (ANSI) March 2017, Ontario Ministry of Natural Resources

★ Site / Boundary 2000m Buffer



1:22000

251213658
South March Highlands



Area of Natural & Scientific Interest (ANSI) Order No. 20180618029

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



ANSI Report

ANSI Units Found within 2000 m of
788 March Road, Kanata, ON, K2K 1X7



ANSI Name: South March Highlands

ID: 251213658 | **Type:** Candidate ANSI, Life Science | **Significance:** Provincial | **Management Plan:** No | **Area (sqm):** 8955569.866 |

Comments:

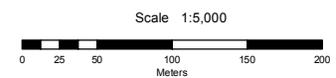
APPENDIX D
Aerial Photographs



LEGEND

 788 March Road

1946 Air Photo



Coordinate System: NAD 1983 UTM Zone 18N
Source: Air Photo A10370_232 (1946-08-14)

PROJECT No. 18-206-1

PROJECT Phase One Environmental Site
Assessment
788 March Road, Ottawa, ON

DESIGN: ADG
CAD/GIS: ADG
CHECK: SNS
REV: 0

DATE: 01/07/2018

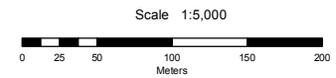




LEGEND

 788 March Road

1952 Air Photo



Coordinate System: NAD 1983 UTM Zone 18N
Source: Air Photo A13380-22 (1952-07-31)

PROJECT No. 18-206-1

PROJECT **Phase One Environmental Site
Assessment**
788 March Road, Ottawa, ON

DESIGN: ADG
CAD/GIS: ADG
CHECK: SNS
REV: 0

DATE: 01/07/2018

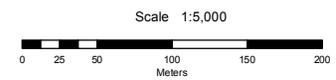




LEGEND

 788 March Road

1975 Air Photo



Coordinate System: NAD 1983 UTM Zone 18N
Source: Air Photo A23959-59 (1975-04-30)

PROJECT No. 18-206-1

PROJECT Phase One Environmental Site
Assessment
788 March Road, Ottawa, ON

DESIGN: ADG
CAD/GIS: ADG
CHECK: SNS
REV: 0

DATE: 01/07/2018

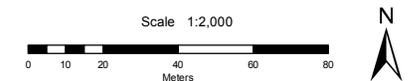




LEGEND

 788 March Road

1991 Air Photo



Coordinate System: NAD 1983 UTM Zone 18N
Source: City of Ottawa geoOttawa 1991 Air Photo

PROJECT No. 18-206-1

PROJECT Phase One Environmental Site
Assessment
788 March Road, Ottawa, ON

DESIGN: ADG
CAD/GIS: ADG
CHECK: SNS
REV: 0

DATE: 01/07/2018

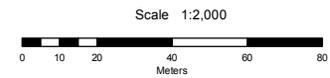




LEGEND

 788 March Road

2017 Air Photo



Coordinate System: NAD 1983 UTM Zone 18N
Source: City of Ottawa geoOttawa 2017 Air Photo

PROJECT No. 18-206-1

PROJECT Phase One Environmental Site
Assessment
788 March Road, Ottawa, ON

DESIGN: ADG
CAD/GIS: ADG
CHECK: SNS
REV: 0



DATE: 01/07/2018

APPENDIX E

Photographs of Site Features



Northern boundary, along Klondike Road (looking east)



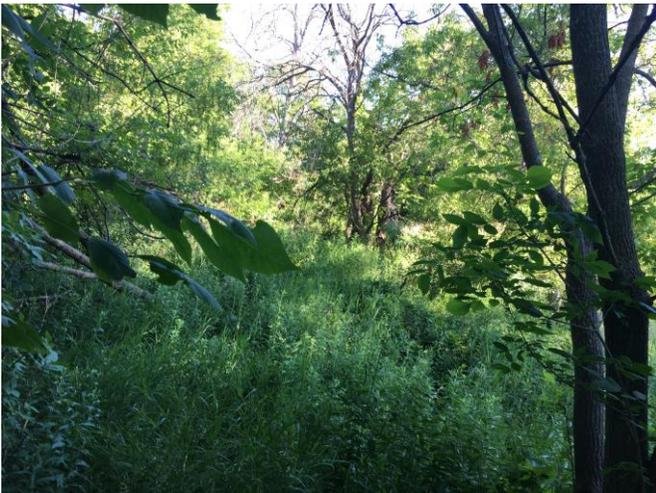
Northeast corner – Shirley's Brook at Klondike Road (looking east)



Eastern boundary, Shirley's Brook (looking south)



Northern boundary, along Klondike Road (looking west)



Overgrown and vacant land along Shirley's Brook



Densely wooded areas



Eastern boundary, Shirley's Brook
(looking north)



Overgrown and vacant land
(looking north west)



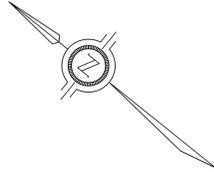
Evidence of recent drilling – overgrown and
vacant land (looking south along west
boundary)



Evidence of recent drilling – overgrown and
vacant land (looking east along west
boundary)

APPENDIX F

Legal Plan of Survey



PART 3, PLAN 5R-7561

TOPOGRAPHIC DETAIL OF
PART OF LOT 10
CONCESSION 4
GEOGRAPHIC TOWNSHIP OF MARCH
CITY OF OTTAWA

SCALE 1 : 250
0 5 10 15 metres

J.D. BARNES LIMITED
© COPYRIGHT 2018

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

NOTES

BEARINGS ARE GRID AND ARE REFERRED TO SOUTHERLY LIMIT OF PART 1, SHOWN ON PLAN 4R-29354, HAVING A BEARING OF N 47°17'45" E.

LEGEND

- DENOTES SURVEY MONUMENT FOUND
- DENOTES SURVEY MONUMENT SET
- SB DENOTES STANDARD IRON BAR
- SSB DENOTES SHORT STANDARD IRON BAR
- IB DENOTES IRON BAR
- PB DENOTES PLASTIC BAR
- WIT DENOTES WITNESS
- MEAS DENOTES MEASURED
- P DENOTES PLAN 4R-25367
- P1 DENOTES PLAN 4R-24176
- 857 DENOTES FAIRHALL & MOFFATT LIMITED
- 1692 DENOTES FARLEY, SMITH AND DENIS SURVEYING LTD.
- SB DENOTES STANTEC GEOMATICS
- C/L DENOTES CENTRELINE

ELEVATION NOTES

ELEVATIONS ARE GEODETIC AND ARE ESTABLISHED USING GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT TO ESTABLISH ELIPSOIDAL HEIGHTS. ELIPSOIDAL HEIGHTS WERE TRANSFORMED TO CGVD-1928 DATUM (GEODETIC) USING THE FEDERAL HTZ-0 HEIGHT TRANSFORMATION MODEL.
IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

AREA NOTE

DEVELOPMENT AREA SOUTH WEST OF 30m SETBACK 6684.1 sqm.

