Phase One Environmental Site Assessment, 3856, 3866 & 3876 Navan Road, Ottawa, Ontario

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EXECUTIVE SUMMARY

Stantec Consulting Ltd. ("Stantec") conducted a Phase One Environmental Site Assessment ("Phase One ESA") of 3856, 3866 & 3876 Navan Road, Ottawa, Ontario, hereinafter referred to as the "Phase One Property" or "Site". The City of Ottawa Property Identification Numbers (PINs) for the Site are 043522200, 043522201 and 043522202. The Phase One ESA was completed for the St. George and St. Anthony Church to support the City of Ottawa Site Plan Control Application for the development of a new church on the Site. As per the City of Ottawa's requirements, the Phase One ESA is to be completed in accordance with Ontario Regulation 153/04 (O.Reg. 153/04) and is therefore called a Phase One ESA, which is different from a Phase I ESA completed in accordance with CSA Standard Z768-01, R2012.

Stantec understands that this Phase One ESA will not be used to support the preparation of a Record of Site Condition (RSC) in accordance with O.Reg.153/04; as a RSC is not required at this time. The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Phase One Property as a result of current and/or past activities at the Phase One Property and/or neighbouring properties located within 250 m of the Phase One Property ("Phase One Study Area").

Phase One Property Description

The Phase One Property is a 14,170 m^2 vacant lot with low-lying vegetation and treed areas. The entrance to the Phase One Property is from the north off of Navan Road.

Based on information obtained during the site reconnaissance and a review of available historical information, the Phase One Property appears to have always been vacant, and possibly used for agricultural purposes in the past. Private individuals owned the Phase One Property from 1871 until 2011 when it was acquired by 1252065 Ontario Inc. The Phase One Property was later acquired by St. Georges and St. Anthony Coptic Orthodox Church of Ottawa in 2014, who is the current owner.

Conclusions and Recommendations

Based on information gathered and observations made, the Phase One ESA has not revealed any evidence of areas of potential environmental concern on the Phase One Property.

Based on the findings of the Phase One ESA, it is our opinion that there are no issues of actual or potential environmental concern with respect to soil and groundwater quality and that a Phase Two ESA is not required at this time. However, if soil is to be removed from any portion the Site for construction purposes, chemical analyses should be completed to determine the appropriate soil management and/or disposal requirements.

A regulatory response from the Ontario Ministry of the Environment and Climate Change (MOECC) is pending for all of the environmental information they may have for the Phase One ESA Property. This information will be forwarded upon receipt and if any of the information indicates there may be cause to alter the conclusions and recommendations of this report, the City will be notified as such.

The statements made in this Executive Summary are subject to the project conditions described in the Closure (Section 8.0), and are to be read in conjunction with the remainder of this report.

1.0 INTRODUCTION

1.1 PHASE ONE PROPERTY INFORMATION

Stantec Consulting Ltd. ("Stantec") conducted a Phase One Environmental Site Assessment ("Phase One ESA") of 3856, 3866 & 3876 Navan Road, Ottawa, Ontario, hereinafter referred to as the "Phase One Property" or "Site". The City of Ottawa Property Identification Numbers (PIN) for the Site are 043522200, 043522201 and 043522202. The Phase One ESA was completed for the St. George and St. Anthony Church to support the City of Ottawa Site Plan Control Application for the development of a new church on the Site. As per the City of Ottawa's requirements, the Phase One ESA is to be completed in accordance with Ontario Regulation 153/04 (O.Reg. 153/04) and is therefore called a Phase One ESA, which is different from a Phase I ESA completed in accordance with CSA Standard Z768-01, R2012.

Stantec understands that this Phase One ESA will not be used to support the preparation of a Record of Site Condition (RSC) in accordance with O.Reg.153/04; as a RSC is not required at this time. The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Phase One Property as a result of current and/or past activities at the Phase One Property and/or neighbouring properties located within 250 m of the Phase One Property ("Phase One Study Area").

The Phase One Property is owned by St. George and St. Anthony Church and is currently undeveloped.

Contact information for the Church (Client Contact) and the Phase One Property (Site Contact) are as follows:

Client Contact:

Magdi Farid
Professional Engineer
Eternal Engineering Corp.
8 Carlisle Circle
Ottawa, ON K0A 1B0

Site Contact:

Rami Bastawros
Church Representative
St. George and St. Anthony Church
1081 Cadboro Road
Ottawa, ON K1J 7T8

2.0 SCOPE OF INVESTIGATION

The general objectives of the Phase One ESA included the following:

- 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 ("Phase Two ESA").
- To aid in the development of a Phase Two ESA scope of work (if needed).

The Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination at the property. The Phase One ESA carried out by Stantec on the Phase One Property generally satisfied the requirements of the amended Ontario Regulation 153/04 (O.Reg.153/04), and consisted of the following:

- A review of records which included the following where available, but not limited to:
    - Publicly available city directories, aerial photographs, fire insurance plans, geological and topographic maps.
    - Fire insurance plans (FIPs), property underwriters' reports and property underwriters' plans from Opta Information Intelligence Inc. (Opta), if available.
    - Any records on file with the Ontario Ministry of the Environment and Climate Change (MOECC) pertaining to the Phase One Property.
    - Any records from the Technical Standards and Safety Authority ("TSSA") pertaining to the Phase One Property, if available.
    - All EcoLog ERIS ("ERIS") environmental databases pertaining to the Phase One Property and properties within a 250 m search radius from the boundary of the Phase One Property.
    - Other environmental databases and records.
    - Previous environmental reports, if available.
    - Historical title search back to the Crown Patent
- Interviews with persons having knowledge of the Phase One Property, including the Phase One Property owner, property occupants and/or neighbouring businesses within the Phase One Study Area having knowledge of the Phase One Property.
- Site reconnaissance to identify potentially contaminating activities associated with the following:
    - Current on-site operations;

  - Waste generation;
  - Fuel, chemical and waste storage;
  - Exterior Phase One Property conditions including surface features, fill material and wells; and,
  - Potential off-site sources and operations in the Study Area.
- An evaluation of the information gathered from the records review, interviews and site reconnaissance.
- Preparation of the Phase One ESA report provided herein.
- The submission of the Phase One ESA report to the owner of the Phase One Property.

Contrary to the requirements of O.Reg. 153/04, only one site visit was completed, regardless of the presence of any obstructions that may have limited observations of the ground surface.

Contrary to the requirements of O.Reg. 153/04, the site visit was completed concurrently with the records review.

A Phase One ESA does not include sampling or testing of air, soil, groundwater, surface water or building materials. This assessment did not include a review or audit of compliance with any environmental legislation applicable to the Phase One Property, or of any environmental management systems which may exist for the Phase One Property.

A Phase One ESA completed to the requirements of O.Reg. 153/04 does not include an assessment for the potential presence of hazardous building materials or mold at the Site. In addition, a Phase I ESA completed to satisfy O.Reg.153/04 will not meet the requirements of the Canadian Standards Association (CSA) Phase I ESA Protocol Z768-01, R2012. A Phase I ESA completed to satisfy O.Reg. 153/04 only addresses potential contamination of the natural environment (i.e., soil and groundwater). A Phase I ESA completed to satisfy the CSA Standard also includes identifying the potential presence of designated substances and hazardous materials (i.e., asbestos) and other special attention items (i.e., mould).

A site reconnaissance was conducted by Elsa Hergel, B.Sc., of Stantec on September 13, 2016, between the times of 3:00 pm and 4:00 pm. The Phase One Property and readily visible and publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area were observed for areas of potential environmental concern. Mr. Rami Bastawros, a church representative, was interviewed over the phone regarding the history of the Phase One Property.

2.1 REGULATORY FRAMEWORK

In Ontario, the roles and powers of the Ontario Ministry of the Environment and Climate Change (MOECC) when dealing with contaminated sites are outlined primarily in the *Environmental Protection Act* (R.S.O. 1990). The MOECC has a mandate to address conditions where there is an adverse effect, or the likelihood of an adverse effect, associated with the presence or discharge of a contaminant. The amended O.Reg.153/04, provides roles and responsibilities for property owners and consultants to use when assessing the environmental condition of a property, when determining whether or not restoration is required, and in determining the kind of restoration needed to allow continued use or reuse of a property. The regulation includes generic numerical standards for soil and groundwater quality for specific land and groundwater uses. A Phase One ESA is an initial step in the site assessment process, which may lead to the requirement for restoration work if areas of potential environmental contamination are identified. During a Phase One ESA, samples are not collected; however, if there are previous soil or groundwater sample results available, the results are compared to applicable provincial standards.

3.0 RECORDS REVIEW

3.1 GENERAL

3.1.1 Phase One Study Area Determination

The Phase One Study Area included the Phase One Property, properties immediately adjoining the Phase One Property, and neighbouring properties located wholly or partially within 250 m from the boundary of the Phase One Property. No properties located further than 250 m from the Phase One Property, were identified as containing relevant potentially contaminating activities; however, the presence or absence of landfills and/or coal gasification plants within 1,000 m of the Phase One Property was reviewed.

3.1.2 First Developed Use Determination

The first developed land use for the Phase One Property was determined through a review of available aerial photographs from 1965 to 2014, a land title search from Crown Patent in 1871 to 2016, and available city directories. The Phase One Property appears to have always been a vacant lot.

3.1.3 Fire Insurance Plans

A request was made to Opta for any FIPs, Property Underwriters' Reports or Property Underwriters' Plans pertaining to the Phase One Property. No information for the Phase One Study Area is provided in the FIPs as the Phase One Study Area is not covered.

3.1.4 Chain of Title

A chain of title was requested from Wentzell Titles, for the Phase One Property, legally described as part of Lot 7, Concession 11, Geographic Township of Cumberland.

The title search was conducted for the time period from 1871 to 2016, with the last transaction recorded in 2014. According to information provided in the land registry title search, private individuals generally owned the Phase One Property from the Crown in 1871 to 2011. The Phase One Property was then acquired by 1252065 Ontario Inc. in 2011 and owned the property until 2014 when it was purchased by St. Georges and St. Anthony Coptic Orthodox Church of Ottawa (the current owner).

Based on the chain of title, provided in Appendix D, no information that would suggest activities or operations contributing to an APEC were identified at the Phase One Property.

3.1.5 Environmental Reports

No environmental reports were provided for the Phase One Property.

3.1.6 City Directories

A request for available city directories was made to Ecolog ERIS to assist in determining the development history of the Phase One Property and five neighbouring properties, as well as to assist in identifying potential contaminating activities. City directories from 1992, 1996/1997, 2001/2001, 2006/2007, and 2011 were available for review.

A summary of the information obtained during the review is provided below. No activities or operations that would contribute to an APEC at the Phase One Property were identified within the Phase One Study Area from the information reviewed in the city directories.

Table 3-1 Surrounding Properties within Phase One Study Area

Adjacent Property	Address	Listing (year)
Site	3856, 3866 & 3876 Navan Road	Not Listed (1992, 1996/1997, 2001/2001, 2006/2007, 2011)
Northern Property	3883 Navan Road	Not Listed (1992, 1996/1997, 2001/2001, 2006/2007, 2011)
Eastern Property	3890 Navan Road	Not Listed (1992, 1996/1997) Residential – 1 tenant (2001/2002, 2006/2007, 2011)
Southern Property	3964 Navan Road	Not Listed (1992, 1996/1997, 2001/2001, 2006/2007, 2011)
Northwestern Property	3842 Navan Road	Not Listed (1992, 1996/1997) Residential – 1 tenant (2001/2002, 2006/2007, 2011)
Southeastern Property	3936 Navan Road	Not Listed (1992, 1996/1997, 2001/2002, 2011) Residential – 1 tenant (2006/2007)

3.1.7 Property Underwriters' Reports and Plans

A request was made to Opta Information Intelligence for any available Property Underwriters' Reports or Property Underwriters' Plans pertaining to the Phase One Property. According to Opta, no reports or plans for the Phase One Property are available.

3.2 ENVIRONMENTAL SOURCE INFORMATION

Available environmental databases and records were searched to determine if the Phase One Property and adjacent/neighbouring properties within the Phase One Study Area were listed. Several databases were searched by EcoLog ERIS at the request of Stantec. These search results are discussed in the applicable sections below. The complete EcoLog ERIS report for the Phase One Study Area is provided in **Appendix D**.

3.2.1 National Pollutant Release Inventory (NPRI)

The National Pollutant Release Inventory maintained by Environment Canada was searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the boundary of the Phase One Property. No entries were found in this database search relating to the Phase One Study Area.

3.2.2 PCB Storage Sites and Inventory Databases

The Ontario Inventory of PCB Storage Sites and the National PCB Inventory databases were searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the boundary of the Phase One Property. No properties listed in the Inventory of PCB Storage Sites were identified by EcoLog ERIS.

3.2.3 Certificate of Approval

Included in the EcoLog ERIS report was a search of the Certificates of Approval database for all properties within the Phase One Study Area. One entry was registered in the EcoLog ERIS report (Certificate#6120-6MWQLT) for municipal water and sewer infrastructure for the Carleton Baptist Church at 3883 Navan Road. Due to the non-contaminating nature of the activity, it is not expected to have had an adverse effect on the Phase One Property.

3.2.4 MOECC Freedom of Information Requests

Stantec requested documents associated with the Phase One Property. A response from the MOECC has yet to be received. The MOECC request is provided in **Appendix D**.

3.2.5 Coal Gasification Plant Waste Sites and Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario

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" were searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the Site. Results of the search indicated that the Phase One Property and other properties within 250 m of the Phase One Property are not listed as former coal gasification plant waste sites, or an industrial site responsible for the production or use of coal tar.

Based on Stantec's review of the MOECC's two inventory reports no former coal gas plants are located within 1,000 metres of the Site.

3.2.6 Hazardous Waste Generators and Receivers

The Ontario Regulation 347 Waste Generators Summary was searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the Site. No entries were identified in the EcoLog ERIS report pertaining to the Phase One Study Area.

3.2.7 Technical Standards and Safety Authority (TSSA)

Stantec contacted the TSSA to request a search of their databases for files related to the Phase One Property regarding outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities and/or licensed underground storage tanks. A response from the TSSA indicated there were no records found for the Phase One Property.

It should be noted that the Fuels Safety Division of the TSSA did not register private fuel underground or aboveground storage tanks prior to January 1990, or fuel oil tanks prior to May 1, 2002. Further, private waste oil tanks in apartments, office buildings, residences, etc. and aboveground gas or diesel tanks are not registered with the TSSA.

3.2.8 Environmental Registry

Included in the EcoLog ERIS report was a search of the Environmental Registry database for all properties within the Phase One Study Area. There were no entries in the EcoLog ERIS report relating to the Phase One Study Area.

3.2.9 Records of Site Condition (RSC)

The EcoLog ERIS report included a search of the Record of Site Condition database for all properties within the Phase One Study Area. Based on the information provided, no RSCs were filed within the Phase One Study Area.

3.2.10 Areas of Natural Significance

Based on our review of topographical map 31 G/5 and the City of Ottawa's geoOtawa mapping website, there are no areas of natural significance in the Phase One Study Area.

3.2.11 Waste Disposal Sites

Stantec reviewed the information contained in the MOECC document entitled Waste Disposal Site Inventory, dated June 1991. The report includes a list of known active and closed waste disposal sites in Ontario, as of October 31, 1990. Based on the information reviewed, there are no waste disposal sites within a 1,000 metre radius of the Site.

In addition, the EcoLog ERIS report included searches of the Waste Disposal Sites – MOECC CA Inventory (data compiled from the MOECC's CofA database), Historical Waste Disposal Sites and the Anderson's Waste Disposal Sites (includes sites that are missing from the MOE's Waste Disposal Site Inventory) databases for all properties within the Phase One Study Area. Based on the information provided, no waste disposal sites were identified within the Phase One Study Area.

3.2.12 EcoLog ERIS

Records of environmental significance, included in the EcoLog ERIS report, relating to the Phase One Property, adjacent properties and/or selected neighbouring properties, which were not already discussed in Sections 3.2.1 to 3.2.11, are summarized below. The complete report, including a drawing illustrating the search area, can be found in **Appendix D**.

Borehole

Two borehole locations were identified within the Phase One Study Area. These boreholes were installed in 1960 and 1968. The subsurface stratigraphy from the borehole logs includes sand and clay above bedrock, which was encountered at depths of 25 m and 27.4 m below grade. These boreholes are not anticipated to contribute to an APEC.

Water Well Information System

Eight well locations were identified within the Phase One Study Area. The installation dates for these wells ranged from 1960 to 2011, and were installed for domestic water supply. The subsurface stratigraphy in these wells was similar to that encountered in the nearby boreholes.

No other listings were identified in the EcoLog ERIS report.

3.3 PHYSICAL SETTING SOURCES

3.3.1 Aerial Photographs

Aerial photographs obtained from the City of Ottawa's geoOttawa website were utilized to review historical aerial imagery of the Phase One Study Area. Aerial photographs from 1965, 1976, 1991, 1999, 2002, 2005, 2008, 2011, and 2014 were reviewed. Information from the aforementioned aerial photography is provided below.

Table 3-2 Aerial Photograph Summary

Date	Phase One Property	Phase One Study Area
1965 (scale unknown)	Vacant property.	Navan Road is present to the north of the Phase One Property. There are a few buildings to the east of the Site at 3890 Navan Road. There are a few residences across Navan Road to the northeast and northwest. The remaining land surrounding the Phase One Property is undeveloped agricultural land.
1976 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
1991 (scale unknown)	Vacant property.	Residential development has occurred to the west of the Site, and Grandpre Court is now present. Properties to the north, east and south are unchanged.
1999 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2002 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2005 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2008 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2011 (scale unknown)	Vacant property.	There appears to be a large clearing with potentially dirt fill to the north of the Site across Navan Road. Properties to the east, south and west are unchanged.
2014 (unknown scale)	Vacant property.	There are two small structures north of the Site, besides the previously mentioned clearing, and what appears to be a concrete building footprint in the cleared area. Properties to the east, south and west are unchanged.

3.3.2 Topography, Hydrology and Geology

3.3.2.1 Topography and Regional Drainage

Based on Natural Resources Canada topographic map 31 G/5, and the observed topography in the vicinity of the Phase One Property, regional surface drainage (inferred shallow groundwater flow direction) appears to generally flow in a southerly direction.

It should be noted that the direction of the shallow groundwater flow in limited areas can also be influenced by the presence of underground utility corridors and is not necessarily a reflection of regional or local groundwater flow or a replica of the Phase One Property or area topography.

3.3.2.2 Hydrology and Surface Water Drainage

The Phase One Property is a vacant lot. Storm water is anticipated to drain primarily by infiltration and overland flow to the ditch along Navan Road, to the north of the Site.

3.3.2.3 Surficial Geology

Geological maps of the area indicate that the native surficial soils in the vicinity of the Phase One Property consist of coarse-textured glaciomarine deposits of sand, gravel, minor silt and clay. Based on information obtained from borehole/well logs in the EcoLog ERIS report, the subsurface stratigraphy in the vicinity of the Phase One Property consisted of a layer of sand above clay. The characteristic permeability of this soil deposit is low.

3.3.2.4 Bedrock Geology

Based on information obtained from the Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario,* bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone and siltstone. The depth to bedrock was not indicated on the map. Based on the EcoLog ERIS report, limestone and shale bedrock was encountered at depths ranging from 25 m to 33.5 mbg in 10 off-site boreholes / water supply wells.

3.3.3 Fill Materials

The Phase One Property is relatively at grade with adjacent properties, and approximately 1.5 metres lower than Navan Road. Therefore, it is unlikely that significant amount of fill has been brought onto the Phase One Property. However, there was likely fill imported north of the Phase One Property to construct Navan Road to its current elevation.

3.3.4 Water Bodies and Areas of Natural Significance

Based on the review of topographical map 31 G/5 and the City of Ottawa's geoOtawa mapping website, there are no areas of natural significance in the Phase One Study Area. There do however appear to be a pond to the south and a small creek to the east of the Phase One Property when viewed in Google Maps.

3.3.5 Well Records

Stantec obtained water well information from the Ecolog ERIS report. Eleven off-site water wells were identified and are discussed in Section 3.2.12.

3.4 SITE OPERATING RECORDS

Documents related to the Phase One Property were requested from the client contact and/or the site contact of the Phase One Property. Comments regarding each of the documents are provided in the table below.

Table 3-3 Site Operating Records

Document(s)	Title	Comments
Regulatory Permits and Records	None provided	No regulatory permits and records were obtained from the site contact of the Phase One Property.
Material Safety Data Sheets (MSDSs)	None provided	No MSDSs were obtained from the site contact of the Phase One Property.
Underground Utility Drawings	None provided	No utility locates (electrical, gas, communication, etc.) were obtained from the site contact of the Phase One Property.
Chemical Inventory	None provided	No chemical inventories were obtained from the site contact of the Phase One Property.
Storage Tank Inventory	None provided	No aboveground or underground storage tanks were reported to be present at the Phase One Property.
Environmental Monitoring Data	None provided	No environmental monitoring data was obtained from the site contact of the Phase One Property.
Waste Management Records	None provided	No waste management records were obtained from the site contact of the Phase One Property.
Process, Production and Maintenance	None provided	No process, production and maintenance documents were obtained from the site contact of the Phase One Property.
Records of Spills and Contaminant Discharges	None provided	No records of spills or discharges were obtained from the site contact of the Phase One Property.
Emergency Response Plans	None provided	No emergency response plans were obtained from the site contact of the Phase One Property.
Environmental Audit Reports	None provided	No environmental audit reports were obtained from the site contact of the Phase One Property.
Site Plans	New Church Building Design, 2015 Reference Plan of Survey of Part of Lot 7, Concession 11, City of Ottawa	The site plans were reviewed for the Phase One Property.
Historical Land Use Information	None provided	No historical land use information was obtained from the site contact of the Phase One Property.

4.0 INTERVIEWS

An interview was conducted with Rami Bastawros over the phone on September 26, 2016. Mr. Bastawros was asked about the current and past activities at the Phase One Property and his responses were incorporated into the appropriate sections below.

5.0 SITE RECONNAISSANCE

5.1 GENERAL REQUIREMENTS

A site reconnaissance of the Phase One Property was conducted by Elsa Hergel, B.Sc., of Stantec on September 13, 2016, between the times of 3:00 pm and 4:00 pm. During the day of the site reconnaissance, the weather was sunny and warm. The Phase One Property and readily visible and publicly accessible portions of adjacent/neighbouring properties within the Phase One Study Area were observed for the presence of potentially contaminating activities and potential contaminant pathways. All areas of the Phase One Property were available for inspection.

Plans showing the Phase One Study Property and the Phase One Study Area, are included in **Appendix A**. Selected photographs of the Phase One Property are included in **Appendix B**.

5.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

5.2.1 Property Information

The Phase One Property occupies the 14,170 m^2 plot of land described as part of Lot 7, Concession 11, Geographic Township of Cumberland. The Phase One Property has civic addresses of 3856, 3866 & 3876 Navan Road. The Phase One Property is a vacant lot with low-lying vegetation and treed areas. The entrance to the Phase One Property is from the north off of Navan Road.

5.2.2 Property Buildings & Structures

There are no buildings on the Phase One Property as the Site is undeveloped.

5.2.3 Aboveground and Underground Storage Tanks

No chemical or fuel aboveground storage tanks (ASTs) or underground storage tanks (USTs) were identified or reported to be present at the Phase One Property at the time of the site reconnaissance. Further, no vent or fill pipes indicating the potential presence of an abandoned or decommissioned UST were observed.

5.2.4 Underground Utilities and Services

The Phase One Property is not serviced as the Site is undeveloped.

5.2.5 Site Building Features

There are no buildings on the Phase One Property as the Site is undeveloped.

5.2.6 Wells

A groundwater monitoring well, possibly installed during a geotechnical investigation, was observed in the northeastern portion of the Phase One Property.

5.2.7 Sewage Works

The Phase One Property is not serviced as the Site is undeveloped.

5.2.8 Surface Features

The surface of the Site is relatively at grade with adjacent properties and is at a slightly lower elevation than Navan Road that runs along the northern property boundary.

5.2.9 Current or Former Railway Lines or Spurs

No presence of a current or former railway line was observed at the time of the site reconnaissance.

5.2.10 Surface Staining and Stressed Vegetation

No stained surficial materials or stressed vegetation were observed at the Phase One Property.

5.2.11 Imported Fill and Debris

No evidence of imported fill materials or debris was observed during the site reconnaissance, as the Phase One Property was relatively at grade with the neighboring properties. However, there was likely fill used to construct Navan Road to the north of the Site, which is approximately 1.5 metres higher than surrounding areas.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

The current and past uses of the Phase One Property as determined by the site reconnaissance and historical information gathered through the records review is summarized as follows:

Table 6-1 Table of Current and Past Land Uses

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1871 to 2011	Numerous	Vacant	Agricultural	Aerial photographs from 1965 to 2011 indicate the property was vacant or used for agricultural purposes.
2011 to 2014	1252065 Ontario Inc.	Vacant	None	Aerial photographs from 2011 to 2014 indicate the property was vacant.
2014 to 2016	St. Anthony and St George Coptic Orthodox Church of Ottawa	Vacant	None	None

6.2 POTENTIALLY CONTAMINATING ACTIVITIES (PCAS)

6.2.1 Phase One Property

Based on historical documents and the site reconnaissance, there are no PCAs on the Phase One Property that may be contributing to an APEC.

6.2.2 Phase One Study Area

Based on historical documents and the site reconnaissance, there are no PCAs on the Phase One Property that may be contributing to an APEC.

6.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

No APECs were identified for the Phase One Property.

6.4 PHASE ONE CONCEPTUAL SITE MODEL

In developing the Conceptual Site Model for the Phase One Property and Phase One Study Area, the following physical characteristics/pathways were evaluated in order to assess whether any Potentially Contaminating Activities may have contributed to an APEC at the Phase One Property.

Table 6-2 Conceptual Site Model

Physical Characteristics/Pathways	Description
Subsurface Soils	Based on available geological maps and the EcoLog ERIS database report, the soil consists of sand, gravel, minor silt, and clay.
Bedrock	Based on information obtained from the Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario,* bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone and siltstone. The depth to bedrock was not indicated on the map. Based on the EcoLog ERIS database report, limestone and shale bedrock was encountered at depths ranging from 25 m to 33.5 m below grade.
Inferred Groundwater Flow Direction	Based on Natural Resources Canada topographic map 31 G/5, and the observed topography in the vicinity of the Phase One Property, regional surface drainage (inferred shallow groundwater flow direction) appears to generally flow in a southerly direction.
Underground Utilities	No underground utilities were documented at the site during the site reconnaissance.

The figures provided in **Appendix A** include features and details in relation to the Phase One Study Area and the Phase One Property. In general, the figures illustrate the following (where applicable):

1) Road names and existing buildings and structures within the Phase One Study Area;
2) The location of water bodies within the Phase One Study Area;
3) The location of areas of natural significance within the Phase One Study Area;
4) Presence of drinking water wells at the Phase One Property, if present;
5) Property usage types on adjoining properties to the Phase One Property;
6) The location of current or former APECs on the Phase One Property and nearby properties;
7) The direction of assumed groundwater flow within the Phase One Property; and,
8) The approximate location of underground utilities or structures, if known.

7.0 CONCLUSIONS

7.1 IS A PHASE TWO ENVIRONMENTAL SITE ASSESSMENT REQUIRED BEFORE A RECORD OF SITE CONDITION IS SUBMITTED?

Based on the findings of the Phase One ESA, it is our opinion that there are no issues of actual or potential environmental concern with respect to soil and groundwater quality and that a Phase Two ESA is not required at this time. However, if soil is to be removed from any portion the Site for construction purposes, chemical analyses should be completed to determine the appropriate soil management and/or disposal requirements.

A regulatory response from the Ontario Ministry of the Environment and Climate Change (MOECC) is pending for all of the environmental information they may have for the Phase One ESA Property. This information will be forwarded upon receipt and if any of the information indicates there may be cause to alter the conclusions and recommendations of this report, the City will be notified as such.

7.2 CAN A RECORD OF SITE CONDITION BE SUBMITTED BASED ON THE PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE?

A RSC cannot be filed solely based on the findings of this Phase One ESA, as it does not contain the regulatory response from the MOECC or current legal survey of the Phase One Property signed and sealed by an Ontario Land Surveyor.

8.0 CLOSURE

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report, and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited by the following:

- The Phase One Property was assessed on September 13, 2016. Any changes to the property since September 13, 2016, have not been assessed.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary

among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

The site reconnaissance and the preparation of this Phase One ESA report was completed by Elsa Hergel, B.Sc. Senior technical review of the report was provided by Jane Yaraskavitch, M. Eng., P.Eng., QP$_{ESA}$. Credentials of these project team members are provided in **Appendix C**.

Respectfully submitted,

STANTEC CONSULTING LTD.

Elsa Hergel, B.Sc.
Author
Tel: (613) 784-2222
Fax: (613) 722-2799
elsa.hergel@stantec.com

Jane Yaraskavitch, M.Eng., P.Eng., QP$_{ESA}$
Senior Reviewer
Tel: (613) 738-6091
Fax: (613) 722-2799
jane.yaraskavitch@stantec.com

The objectives and requirements set out in Ontario Regulation 153/04 for a Phase One Environmental Site Assessment were applied in carrying out the environmental site assessment and preparing this report, with the exception of the missing regulatory records from the Ontario Ministry of the Environment and Climate Change. In addition, a current legal survey of the Phase One Property signed and sealed by an Ontario Land Surveyor has not been included.

EH/JPD/cf

Distribution: (6) Addressee (plus PDF via email)

V:\01225\active\122511332\05_report_deliv\deliverables\rpt_phase_one_final_20161003.docx

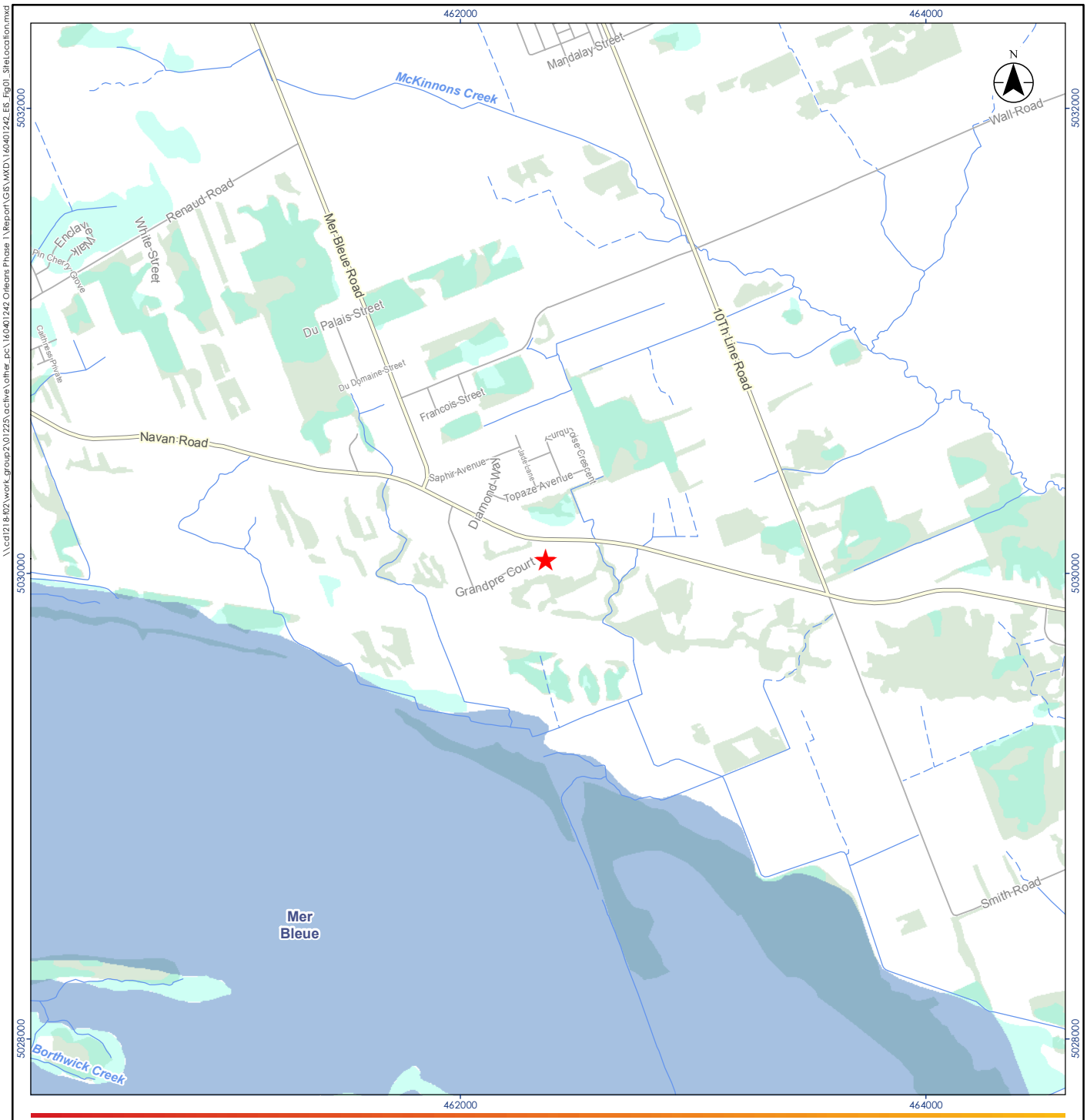
9.0 REFERENCES

Information sources obtained and reviewed as part of the records review are listed below.

Reference Type/Source	Information/Documents Obtained
Aerial Photographs	• City of Ottawa geoOttawa website: 1976, 1991, 1999, 2002, 2005, 2008, 2011, and 2014
Title Search	• Title search completed by Wentzell Titles, from 1871 to present
Company Records	• New Church Building Design, 2015 • Reference Plan of Survey of Part of Lot 7, Concession 11, City of Ottawa
Regulatory Infractions	• Requests were made to the MOECC through the Freedom of Information and Privacy Protection Office for a search of their records regarding charges and/or convictions of the owners or tenants, or violations of applicable environmental regulations, issued against the Phase One Property. • The EcoLog ERIS report also included a search of the MOECC Compliance and Convictions database.
Reportable Spill Occurrences	• A request was made to the MOECC's Spills Action Centre through the Freedom of Information and Privacy Protection Office for a search of their records of reportable spills occurring at the Phase One Property. • The EcoLog ERIS report also included a search of the Ontario Spills database.
Contaminated Sites	• MOECC Brownfields Environmental Site Registry • The EcoLog ERIS report included a search of the Federal Contaminated Sites Inventory.
Hazardous Waste Generators	• MOECC Hazardous Waste Information Network (HWIN) Registered Generator List • EcoLog ERIS – Ontario Regulation 347 Waste Generators Summary.
Landfills	• EcoLog ERIS – Waste Disposal Sites • EcoLog ERIS – Anderson's Waste Disposal Sites
Technical Standards and Safety Authority	• A request to the Technical Standards and Safety Authority (TSSA) was made for a search of their files regarding tank installations, fuelling facilities, outstanding instructions, incident reports, fuel oil spills and/or contamination records respecting the Site.
Water Well Records	• EcoLog ERIS - Water Well Information System
EcoLog ERIS	• An EcoLog ERIS report was purchased and consisted of a search of all available databases within a 250 m radius of the Phase One Property.
Topographic Maps	• City of Ottawa, Map 31 G/5, 1:50,000 – Natural Resources Canada; published in 1998.

Reference Type/Source	Information/Documents Obtained
Geologic Maps	• Energy, Mines and Resources Canada, 1967, Ottawa Map 1508A – Generalized Bedrock Geology of Ottawa-Hull • Energy, Mines and Resources Canada, 1982, Ottawa Map 1506A – Surficial Geology of Ottawa • Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario*

Appendix A
Figures



Legend

- Site Location
- Major Road
- Minor Road
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Wetland, Provincially Significant
- Wetland, Not evaluated per OWES
- Wooded Area

0 500 1,000 metres

1:25,000 (at original document size of 8.5x11)

Stantec

Project Location
3856, 3866 & 3876 Navan Road, Ottawa, Ontario

122511332

Prepared by Chitat Lee on 2016-09-30

Client/Project
CITY OF OTTAWA
PHASE ONE ESA OF 3856, 3866 & 3876 NAVAN ROAD, OTTAWA, ON

Figure No.
1

Title
Key Plan

Notes
1. Coordinate System: NAD 1983 UTM Zone 18T
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.

Stantec

Legend

Site Boundary

0 25 50 metres

1:1,500 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.
3. Orthoimagery: City of Ottawa, 2016. Imagery Date, 2014.

Project Location
3856, 3866 & 3876 Navan Road, Ottawa, Ontario

122511332
Prepared by Chitat Lee on 2016-09-30

Client/Project
CITY OF OTTAWA
PHASE ONE ESA OF 3856, 3866 & 3876 NAVAN ROAD, OTTAWA, ON

Figure No.
2

Title
Site Plan

V:\01225\active\122511332\03_data\gis_cad\MXD\122511332_Fig02_SitePlan_REVB.mxd Revised: 2016-09-30 By: clee

Stantec

Legend
- Inferred Groundwater Flow
- Site Boundary
- Study Area

0 50 100 metres
1:3,000 (At original document size of 11x17)

Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.
3. Orthoimagery: City of Ottawa, 2016. Imagery Date, 2014.

Project Location
3856, 3866 & 3876 Navan Road, Ottawa, Ontario

122511332
Prepared by Chitat Lee on 2016-09-30

Client/Project
CITY OF OTTAWA
PHASE ONE ESA OF 3856, 3866 & 3876 NAVAN ROAD, OTTAWA, ON

Figure No.
3

Title
Site Plan and Surrounding Areas

V:\01225\active\122511332\03_data\gis_cad\MXD\122511332_Fig03_Surrounding_Areas_REVC.mxd Revised: 2016-09-30 By: clee

Appendix B
Site Reconnaissance Photographs

Photo 1: Property to the east of the Site

Photo 2: Ditch along Navan Road

Photo 3: Gravel access path and Site

Photo 4: Construction activities occurring to the southeast of the Site

Photo 5: Southern property boundary

Photo 6: Squash garden, south of Site

Photo 7: Western property boundary

Photo 8: The Site, facing east

Photo 9: Property to the west of the Site

Photo 10: Vegetation on the Site

Photo 11: Bulrushes along the ditch

Photo 12: Groundwater monitoring well

Photo 13: Property to the north of the Site

Appendix C
Project Team Members

Elsa Hergel, B.Sc.
Environmental Scientist

Profile

Elsa Hergel has been working in the area of Phase I Environmental Site Assessments (ESAs) since 2015. Ms. Hergel has been involved in all aspects of a Phase I Environmental Site Assessments (ESAs) including historical research, site reconnaissance and reporting. She has completed numerous Phase I and II ESAs of residential and commercial properties for commercial institutions, property developers, and other clients.

EDUCATION

B.Sc. – University of Guelph, 2015
Guelph, ON
Animal Biology

COMPENTENCY

Report Writer

Site Visit

Jill Peters Dechman, P.Eng.

Senior Environmental Engineer

Profile

Ms. Peters Dechman is a Senior Environmental Engineer and Project Manager at Stantec Consulting Ltd. Ottawa office. Ms. Peters Dechman has approximately 16 years of environmental engineering consulting experience. She is responsible for the management, completion, and senior technical review of Phase I, II and III Environmental Site Assessments (ESAs). Ms. Peters Dechman has completed and managed Phase I, II and III ESAs for a variety of types of properties (i.e., residential, commercial, institutional, and industrial properties) for a variety of proponents (i.e., financial institutions, property developers, insurance firms, real estate investment trusts, municipal/provincial/federal government agencies, and others). Ms. Peters Dechman is a licensed Professional Engineer in the Provinces of Ontario and Manitoba and a Qualified Person under the Ontario Ministry of the Environment Site Registry.

EDUCATION

B.Eng. – Carleton University, 2000
Ottawa, ON
Environmental Engineering

COMPENTENCY

Site Visit

Report Writer

Senior Reviewer

Jane Yaraskavitch, M.Eng., P.Eng.

Senior Associate

Profile

Jane Yaraskavitch has been working in the area of Phase I Environmental Site Assessments (ESAs) since 1994. She is Stantec's Site Management and Remediation Regional Discipline Leader for Ontario. Ms. Yaraskavitch has completed and managed Phase I, II and II ESAs of residential, commercial, institutional, and industrial properties for financial institutions, property developers, insurance firms, real estate investment trusts, municipal/provincial/federal government agencies, and others. Jane has been licensed as a Professional Engineer in Ontario since 1994.

EDUCATION

M.Eng. – University of Toronto
Toronto, ON
Environmental Engineering

B.A.Sc. – University of Waterloo, 1990
Waterloo, ON
Chemical Engineering

COMPENTENCY

Site Visit

Report Writer

Senior Reviewer

Appendix D
Supporting Documentation

Stantec

Fax

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON K2C 3G4
Tel: (613) 722-4420
Fax: (613) 722-2799

To:	Ms. Heather Hill	From:	Christine Braham
Company:	MOECC Freedom of Information and Privacy Protection Office	Phone:	(613) 738-6050
Fax:	(416) 314-4285	Fax:	(613) 722-2799
Date:	September 14, 2016	5 page(s) total includes cover sheet. Original will NOT follow by mail.	
File:	122511332.200		

Reference: MOECC Freedom of Information Request:
3856 Navan Road
3866 Navan Road
3876 Navan Road

Dear Ms. Hill,

Stantec Consulting Ltd. would like to make a formal request under the Freedom of Information and Protection of Privacy Act for information regarding the attached to ascertain the existence of any information regarding infractions or violations of applicable environmental regulations, any reportable spill occurrences.

We appreciate your assistance in collecting this information. Please see the attached Visa Preauthorization to deduct the $5 fee from our prepaid account as well as $30.00 for processing fees for a total amount of **$105**. Should you have any questions or require additional information, please contact me at (613) 738-6050.

Thank you in advance for your assistance in the above matter.

Sincerely,

STANTEC CONSULTING LTD.

Christine Braham
Project Coordinator
Phone: (613) 738-6050
Fax: (613) 722-2799
Christine.Braham@stantec.com

Attachment: (3) Freedom of Information Request
(1) Payment of Freedom of Information Request Fees

c. file copy

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			**For Ministry Use Only**	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 122511332.200 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

3856 Navan Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

St. George and St. Anthony Church

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
air - *emissions*			
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			**For Ministry Use Only**	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 122511332.200 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

3866 Navan Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

St. George and St. Anthony Church

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
air - *emissions*			
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 122511332.200 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

3876 Navan Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

St. George and St. Anthony Church

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
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water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Attn: Elsa Bergel

ENVIRONMENTAL SEARCH 3856-3876 Huron Road

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER 12251332
	Patent	Oct 20 1871	Crown	George E. Dunning
3715	Deed	April 7 1888	George E. Dunning	Jean B. Clereux
4453	Deed	Feb 23 1891	Jean B. Clereux	Emilien Clereux
11393	Deed	May 1 1914	Emilien Clereux	Albert Clairoux
12271	Deed	Apr 3 1917	Albert Clairoux	John Robinson
13650	Deed	June 17 192[illegible]	John Robinson	Ferdinand Larouche
13663	Deed	June 29 1921	Ferdinand Larouche	Xavier Clereux
16797	Deed	July 6 1938	Francois Xavier Clereux	Edouard Clereux (Edward) Jeanne Clereux

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
OC633169	Transmission (Will)	Aug 28 2006	Edouard Cleroux	Aline Chaineux
OC635178	Deed	Aug 31 2006	Aline Chaineux	Edouard Cleroux Denise Cleroux
OC1296931	Deed	Oct 21 2011	Edouard Cleroux Denise Cleroux	1252065 Ontario Inc.
OC1615575	Deed	Aug 29 2014	1252065 Ontario Inc.	St. Georges and St. Anthony Coptic Orthodox Church of Ottawa
				(Current owner - Part 1 on Plan 4R-26690)
OC1615577	Deed	Aug 29 2014	1252065 Ontario Inc.	St. Georges and St. Anthony Coptic Orthodox Church of Ottawa (Current owner - Part 2)
OC1615576	Deed	Aug 29 2014	1252065 Ontario Inc.	St. Georges and St. Anthony Coptic Orthodox Church of Ottawa
				(Current owner - Part 3 on Plan 4R-26690)

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER

* Legal Descriptions are: Part of Lot 7, Concession 11, being Part 1 on Plan 4R-26690, Geographic Township of Cumberland, City of Ottawa. PIN 04352-2200. Re: 3856 Navan Road.

Part of Lot 7, Concession 11, being Part 2 on Plan 4R-26690, Geographic Township of Cumberland, City of Ottawa. PIN 04352-2201. Re: 3866 Navan Road

Part of Lot 7 Concession 11 being Part 3 on Plan 4R-26690, Geographic Township of Cumberland, City of Ottawa. PIN 04352-2202. Re: 3876 Navan Road.

Sept 20/16.

ENVIRONMENTAL RISK INFORMATION SERVICE

Head Office: 80 Valleybrook Dr, Toronto, ON M3B 2S9
Physical Address: 38 Lesmill Rd, Toronto, ON M3B 2T5
Phone: 416-510-5204 • Fax: 416-510-5133
info@erisinfo.com • www.erisinfo.com

City Directory Information Source
Vernon's Ottawa And Area, Ontario City Directory

PROJECT NUMBER: 20160912097	
Site Address:	3856, 3866 & 3876 Navan Road, Ottawa, Ontario
Year: 2011	
Site Listing:	3856-Address Not Listed 3866-Address Not Listed 3876-Address Not Listed
Adjacent Properties:	
3842 Navan Road	-Res (1 Tenant)
3883 Navan Road	-Address Not Listed
3890 Navan Road	-Res (1 Tenant)
3936 Navan Road	-Address Not Listed

3964 Navan Road	-Address Not Listed

PROJECT NUMBER: 20160912097	
Site Address:	3856, 3866 & 3876 Navan Road, Ottawa, Ontario
Year: 2006-07	
Site Listing:	3856-Address Not Listed 3866-Address Not Listed 3876-Address Not Listed
Adjacent Properties:	
3842 Navan Road	-Res (1 Tenant)
3883 Navan Road	-Address Not Listed
3890 Navan Road	-Res (1 Tenant)
3936 Navan Road	-Res (1 Tenant)
3964 Navan Road	-Address Not Listed

PROJECT NUMBER: 20160912097	

Site Address:	3856, 3866 & 3876 Navan Road, Ottawa, Ontario
Year: 2001-02	
Site Listing:	3856-Address Not Listed 3866-Address Not Listed 3876-Address Not Listed
Adjacent Properties:	
3842 Navan Road	-Res (1 Tenant)
3883 Navan Road	-Address Not Listed
3890 Navan Road	-Res (1 Tenant)
3936 Navan Road	-Address Not Listed
3964 Navan Road	-Address Not Listed

PROJECT NUMBER: 20160912097	
Site Address:	3856, 3866 & 3876 Navan Road, Ottawa, Ontario
Year: 1996-97	
Site Listing:	3856-Address Not Listed

	3866-Address Not Listed 3876-Address Not Listed
Adjacent Properties:	
3842 Navan Road	-Address Not Listed
3883 Navan Road	-Address Not Listed
3890 Navan Road	-Address Not Listed
3936 Navan Road	-Address Not Listed
3964 Navan Road	-Address Not Listed

PROJECT NUMBER: 20160912097	
Site Address:	3856, 3866 & 3876 Navan Road, Ottawa, Ontario
Year: 1992	
Site Listing:	3856-Address Not Listed 3866-Address Not Listed 3876-Address Not Listed
Adjacent Properties:	

3842 Navan Road	-Address Not Listed
3883 Navan Road	-Address Not Listed
3890 Navan Road	-Address Not Listed
3936 Navan Road	-Address Not Listed
3964 Navan Road	-Address Not Listed

Navan, Ontario Is Listed From 1992 To 2011 Within The City Directory Archives*

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

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

REFERENCE PLAN OF SURVEY OF

PART OF LOT 7
CONCESSION 11

GEOGRAPHIC TOWNSHIP OF CUMBERLAND

NOW IN THE CITY OF OTTAWA
2012

SURVEYED BY: ARPENTAGE DUTRISAC SURVEYING INC.
SCALE 1 : 500

0 5 10 15 20 30 Metres

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE DECEMBER 12th 2012

DENIS DUTRISAC
ONTARIO LAND SURVEYOR
ROCKLAND, ONTARIO

PLAN 4R-26690

RECEIVED AND DEPOSITED

DATE DEC 19, 2012

REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON N° 4.

LAND TITLES SCHEDULE

PART	PART OF LOT	CONCESSION	AREA(Ha)	P.I.N.
1	7	11	0.4720	ALL OF 04352-0133(LT)
2			0.4722	
3			0.4728	
4			1.2227	
5			0.0355	

METRIC

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

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

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

2. THE SURVEY WAS COMPLETED ON THE 7th DAY OF DECEMBER, 2012

12th DECEMBER, 2012
DATE

DENIS DUTRISAC
ONTARIO LAND SURVEYOR
ROCKLAND, ONTARIO

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT PLANTED
SIB	DENOTES	STANDARD IRON BAR (25mm X 120cm)
IB	DENOTES	IRON BAR (16mm X 60cm)
SSIB	DENOTES	SHORT STANDARD IRON BAR (25mm X 60cm)
CB	DENOTES	CATCH BASIN
Ø	DENOTES	ROUND
SU	DENOTES	SOURCE UNKNOWN
WIT.	DENOTES	WITNESS
Meas.	DENOTES	MEASURED
P.I.N.	DENOTES	PARCEL IDENTIFICATION NUMBER
Plan	DENOTES	EXPROPRIATION PLAN 33982
O.L.S.	DENOTES	ONTARIO LAND SURVEYOR
INST. N°	DENOTES	INSTRUMENT NUMBER
CON.	DENOTES	CONCESSION
A	DENOTES	ARC
R	DENOTES	RADIUS
C	DENOTES	CHORD
N° 990	DENOTES	J.G. PAYETTE, O.L.S.
N° 1491	DENOTES	DENIS DUTRISAC, O.L.S.
AOV	DENOTES	ANNIS, O'SULLIVAN & VOLLEBEKK ONTARIO LAND SURVEYORS

DISTANCES ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 1.000035.

BEARING REFERENCE:

BEARINGS SHOWN HEREON ARE GRID (CSRS) (1997) BEARINGS AND ARE FROM THE COMPUTED BEARING OF N66°56'05"E BETWEEN ICMS 00119883074 (N. 5021172.558 E. 354418.740) AND ICMS 0011967U530 (N. 5047665.641 E. 416635.079) AND ARE REFERRED TO THE CENTRAL MERIDIAN OF ZONE 9 MTM OF THE ONTARIO CO-ORDINATE SYSTEM LONGITUDE 76°30'W.

COORDINATE VALUES ARE TO URBAN ACCURACY IN ACCORDANCE WITH O.REG 216/10.

POINT (A)	NORTHING: 5031971.18	EASTING: 384733.73
POINT (B)	NORTHING: 5031881.55	EASTING: 384523.36
POINT (C)	NORTHING: 5032022.98	EASTING: 384464.53

CAUTION:
COORDINATES CANNOT IN THEMSELVES BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

ARPENTAGE DUTRISAC SURVEYING INC.
ONTARIO LAND SURVEYORS
ROCKLAND
PHONE: (613) 446-7101
FAX: (613) 446-7102

INDEX :
CUM-11-7-12

From:	Prem Lal on behalf of Public Information Services
To:	Hergel, Elsa
Subject:	RE: TSSA searches
Date:	Thursday, September 15, 2016 9:13:55 AM
Attachments:	image001.png image002.png image003.png image004.png

Hi Elsa:

Thank you for your inquiry.

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

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

Thank you Elsa.

Prem

Prem Lal | Public Information Coordinator
Facilities and Business Services
Tel: +1-416-734-3570 | Fax: +1-416-734-3568 | E-Mail: plal@tssa.org
www.tssa.org

From: Hergel, Elsa [mailto:Elsa.Hergel@stantec.com]
Sent: Wednesday, September 14, 2016 11:18 AM
To: Public Information Services
Subject: TSSA searches

Hello,
Would you be able to conduct searches of your databases for properties for three separate Phase One ESAs please? The properties are:
-3169 & 3179 Conroy Road, Ottawa, ON (project# 122511322)
-25 Khymer Court, Ottawa, ON (project#122511329)
-3856, 3866 &3876 Navan Road, Ottawa, ON (project#122511332)
Thanks,

Elsa Hergel
Environmental Scientist
Stantec

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase I ESA - 3856, 3866 & 3876 Navan Road* *3856, 3866 & 3876 Navan Road* *Ottawa ON K4B1H9*
Project No:	*122511332*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20160912097*
Requested by:	*Stantec Consulting Ltd.*
Date Completed:	*September 19, 2016*

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

Executive Summary

Property Information:

Project Property:	*Phase I ESA - 3856, 3866 & 3876 Navan Road* *3856, 3866 & 3876 Navan Road Ottawa ON K4B1H9*
Project No:	*122511332*

Order Information:

Order No:	*20160912097*
Date Requested:	*September 12, 2016*
Requested by:	*Stantec Consulting Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Additional Products:

City Directory Search	*Subject Site plus 5 Adjacent Properties*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Specific Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	2	2
CA	*Certificates of Approval*	Y	0	1	1
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Register*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	0	0
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EXP	*List of TSSA Expired Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	0	0
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0
INC	*TSSA Incidents*	Y	0	0	0
LIMO	*Landfill Inventory Management Ontario*	Y	0	0	0
MINE	*Canadian Mine Locations*	Y	0	0	0
MNR	*Mineral Occurrences*	Y	0	0	0
NATE	*National Analysis of Trends in Emergencies System (NATES)*	Y	0	0	0
NCPL	*Non-Compliance Reports*	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	8	8
	Total:		0	11	11

Executive Summary: Site Report Summary - Project Property

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

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 7 con 11 ON	SW/3.1	-1.00	11
2	WWIS		lot 7 con 11 ON	N/17.7	-1.26	11
3	WWIS		lot 7 con 11 ON	NNE/57.2	-1.00	12
4	WWIS		lot 7 con 11 ON	NNE/74.4	-1.00	12
5	CA	Carleton Baptist Church	3883 Navan Road Ottawa ON	NNE/131.5	-2.00	13
6	BORE		ON	WNW/113.5	-2.83	13
7	BORE		ON	NE/191.4	-1.80	13
7	WWIS		lot 7 con 11 ON	NE/191.4	-1.81	14
8	WWIS		lot 7 con 11 ON	WNW/167.2	-1.00	14
9	WWIS		lot 7 con 11 ON	WNW/187.4	-1.00	15
10	WWIS		lot 7 con 11 WAVAW ON	ENE/246.1	0.00	15

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	113.5	6
	ON	191.4	7

CA - Certificates of Approval

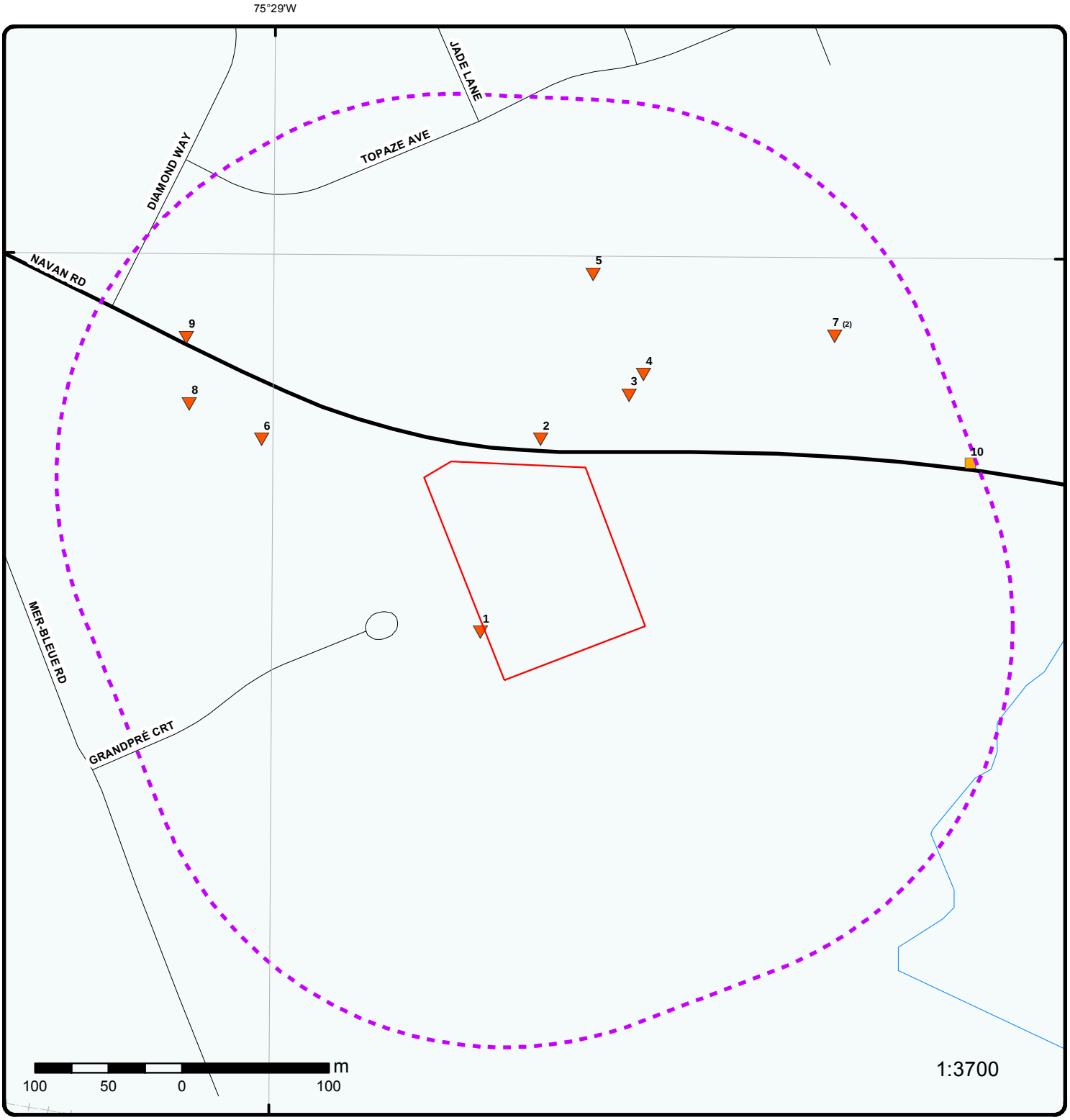
A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Carleton Baptist Church	3883 Navan Road Ottawa ON	131.5	5

WWIS - Water Well Information System

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 7 con 11 ON	3.1	1
	lot 7 con 11 ON	17.7	2
	lot 7 con 11 ON	57.2	3
	lot 7 con 11 ON	74.4	4
	lot 7 con 11 ON	191.4	7
	lot 7 con 11 ON	167.2	8
	lot 7 con 11 ON	187.4	9
	lot 7 con 11 WAVAW ON	246.1	10



Map

Address: 3856, 3866 & 3876 Navan Road, Ottawa, ON, K4B1H9
Order No: 20160912097

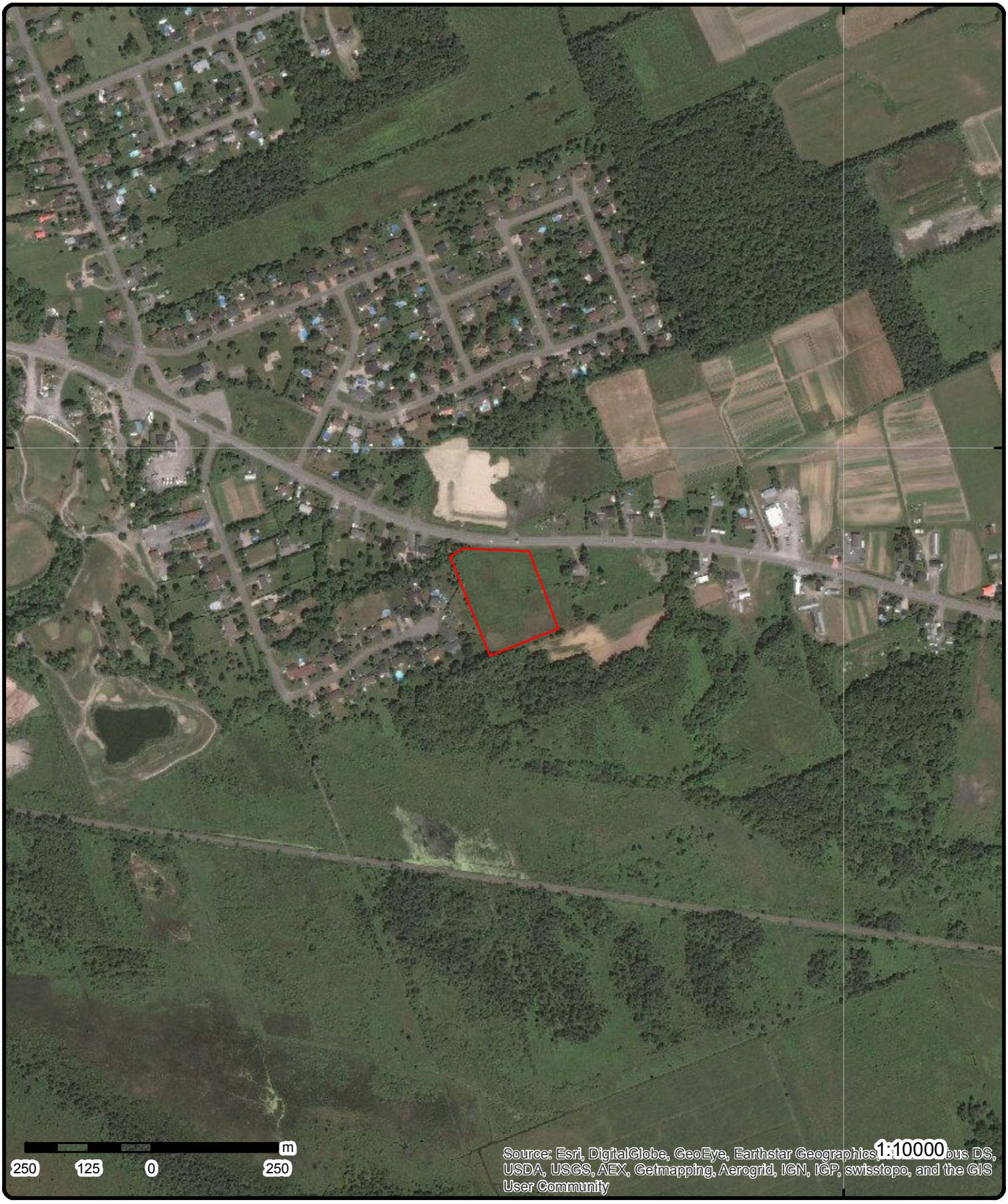
ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

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

Source: © 2015 DMTI Spatial Inc.

75°28'30"W

45°25'30"N



45°25'30"N

Aerial

Order No: 20160912097

Address: 3856, 3866 & 3876 Navan Road, Ottawa, ON, K4B1H9

ENVIRONMENTAL RISK INFORMATION SERVICES

Source: ESRI World Imagery

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	SW/3.1	85.0	lot 7 con 11 ON	WWIS

Well ID:	1519373	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462329.8	**Northing Nad83:**	5030021
Zone:	18	**Utm Reliability:**	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	**Construction Date:**	19-NOV-84
Sec. Water Use:		**Well Depth:**	107 ft
Pump Rate:	18 GPM	**Static Water Level:**	60 ft
Flow Rate:		**Clear/Cloudy:**	CLOUDY
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Cable Tool	**Flowing (y/n):**	N
Elevation (m):	84.51	**Elevation Reliability:**	
Depth to Bedrock:		**Overburden/Bedrock:**	Overburden
Water Type:	FRESH	**Casing Material:**	FRESH

--- Details ---

Thickness:	11 ft	**Original Depth:**	11 ft
Material Colour:	YELLOW	**Material:**	SAND
+			
Thickness:	92 ft	**Original Depth:**	103 ft
Material Colour:	BLUE	**Material:**	CLAY
+			
Thickness:	4 ft	**Original Depth:**	107 ft
Material Colour:	BLACK	**Material:**	GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
2	1 of 1	N/17.7	84.7	lot 7 con 11 ON	WWIS

Well ID:	1512872	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462370.8	**Northing Nad83:**	5030152
Zone:	18	**Utm Reliability:**	margin of error : 100 m - 300 m
Primary Water Use:	Domestic	**Construction Date:**	10-SEP-62
Sec. Water Use:		**Well Depth:**	115 ft
Pump Rate:	5 GPM	**Static Water Level:**	25 ft
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Cable Tool	**Flowing (y/n):**	N
Elevation (m):	86.32	**Elevation Reliability:**	
Depth to Bedrock:	105	**Overburden/Bedrock:**	Bedrock
Water Type:	FRESH	**Casing Material:**	FRESH, MINERIAL

--- Details ---

Thickness:	100 ft	**Original Depth:**	100 ft
Material Colour:		**Material:**	CLAY
+			

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

Thickness:	5 ft	***Original Depth:***	105 ft
Material Colour:		***Material:***	MEDIUM SAND, BOULDERS
+			
Thickness:	10 ft	***Original Depth:***	115 ft
Material Colour:	BLACK	***Material:***	SHALE

---

3 ***1 of 1*** ***NNE/57.2*** ***85.0*** ***lot 7 con 11 ON*** ***WWIS***

Well ID:	1512876	***Lot:***	007
Concession:	11	***Concession Name:***	CON
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:	462430.8	***Northing Nad83:***	5030182
Zone:	18	***Utm Reliability:***	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	***Construction Date:***	05-SEP-68
Sec. Water Use:		***Well Depth:***	94 ft
Pump Rate:	10 GPM	***Static Water Level:***	31 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Diamond	***Flowing (y/n):***	N
Elevation (m):	85.61	***Elevation Reliability:***	
Depth to Bedrock:	85	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	8 ft	***Original Depth:***	8 ft
Material Colour:	YELLOW	***Material:***	MEDIUM SAND
+			
Thickness:	77 ft	***Original Depth:***	85 ft
Material Colour:	BLUE	***Material:***	CLAY
+			
Thickness:	9 ft	***Original Depth:***	94 ft
Material Colour:	GREY	***Material:***	LIMESTONE

---

4 ***1 of 1*** ***NNE/74.4*** ***85.0*** ***lot 7 con 11 ON*** ***WWIS***

Well ID:	1521937	***Lot:***	007
Concession:	11	***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:	462440.8	***Northing Nad83:***	5030196
Zone:	18	***Utm Reliability:***	margin of error : 100 m - 300 m
Primary Water Use:	Domestic	***Construction Date:***	04-NOV-87
Sec. Water Use:		***Well Depth:***	91 ft
Pump Rate:	11 GPM	***Static Water Level:***	39 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):	85.43	***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	Overburden
Water Type:	SULPHUR	***Casing Material:***	FRESH

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	BROWN	***Material:***	SAND
+			
Thickness:	78 ft	***Original Depth:***	87 ft

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

Material Colour:	BLUE	**Material:**	CLAY
+			
Thickness:	4 ft	**Original Depth:**	91 ft
Material Colour:	BLACK	**Material:**	COARSE GRAVEL

---

5 **1 of 1** **NNE/131.5** **84.0** **Carleton Baptist Church** **CA**
3883 Navan Road
Ottawa ON

Certificate #:	6120-6MWQLT
Application Year:	2006
Issue Date:	4/10/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

---

6 **1 of 1** **WNW/113.5** **83.2** **ON** **BORE**

Borehole ID:	616229	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	462181	**Northing:**	5030152
Location Accuracy:		**Orig. Ground Elev m:**	85.3
Elev. Reliability Note:		**DEM Ground Elev m:**	85.7
Total Depth m:	-999	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	AUG-1960	**Static Water Level:**	10.4
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218403405	**Top Depth(m):**	0.0
Bottom Depth(m):	27.4	**Stratum Desc:**	CLAY. BLUE.
+			
Stratum ID:	218403406	**Top Depth(m):**	27.4
Bottom Depth(m):		**Stratum Desc:**	GRAVEL. WATER STABLE AT 246.0 FEET. 246.0 FEET.Y. GREY. . BEDROCK. WEATHERED.

---

7 **1 of 2** **NE/191.4** **84.2** **ON** **BORE**

Borehole ID:	616232	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	462571	**Northing:**	5030222
Location Accuracy:		**Orig. Ground Elev m:**	85.3
Elev. Reliability Note:		**DEM Ground Elev m:**	84.5
Total Depth m:	27.7	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	

Completion Date:	SEP-1968	**Static Water Level:**	10.4
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218403413	**Top Depth(m):**	0.0
Bottom Depth(m):	3.0	**Stratum Desc:**	SAND. YELLOW.
+			
Stratum ID:	218403414	**Top Depth(m):**	3.0
Bottom Depth(m):	25.0	**Stratum Desc:**	CLAY. BLUE.
+			
Stratum ID:	218403415	**Top Depth(m):**	25.0
Bottom Depth(m):	27.7	**Stratum Desc:**	SLATE. BROWN. 00091R STABLE AT 246.0 FEET.. . BEDROCK. WEATHERED. BEDROCK. DARK,G

---

7 **2 of 2** **NE/191.4** **84.2** **lot 7 con 11 ON** **WWIS**

Well ID:	1512875	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462570.8	**Northing Nad83:**	5030222
Zone:	18	**Utm Reliability:**	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	**Construction Date:**	03-SEP-68
Sec. Water Use:		**Well Depth:**	91 ft
Pump Rate:	10 GPM	**Static Water Level:**	30 ft
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Diamond	**Flowing (y/n):**	N
Elevation (m):	84.48	**Elevation Reliability:**	
Depth to Bedrock:	82	**Overburden/Bedrock:**	Bedrock
Water Type:	FRESH	**Casing Material:**	FRESH, MINERIAL

--- Details ---

Thickness:	10 ft	**Original Depth:**	10 ft
Material Colour:	YELLOW	**Material:**	MEDIUM SAND
+			
Thickness:	72 ft	**Original Depth:**	82 ft
Material Colour:	BLUE	**Material:**	CLAY
+			
Thickness:	9 ft	**Original Depth:**	91 ft
Material Colour:	BROWN	**Material:**	SLATE

---

8 **1 of 1** **WNW/167.2** **85.0** **lot 7 con 11 ON** **WWIS**

Well ID:	1512868	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462131.8	**Northing Nad83:**	5030176
Zone:	18	**Utm Reliability:**	margin of error : 100 m - 300 m
Primary Water Use:	Domestic	**Construction Date:**	09-AUG-60
Sec. Water Use:		**Well Depth:**	100 ft
Pump Rate:	6 GPM	**Static Water Level:**	33 ft
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Diamond	**Flowing (y/n):**	N
Elevation (m):	84.17	**Elevation Reliability:**	

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

Depth to Bedrock:		**Overburden/Bedrock:**	Overburden
Water Type:	FRESH	**Casing Material:**	FRESH
--- Details ---			
Thickness:	90 ft	**Original Depth:**	90 ft
Material Colour:	BLUE	**Material:**	CLAY
+			
Thickness:	10 ft	**Original Depth:**	100 ft
Material Colour:		**Material:**	GRAVEL

9 **1 of 1** **WNW/187.4** **85.0** **lot 7 con 11 ON** **WWIS**

Well ID:	1519205	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462129.8	**Northing Nad83:**	5030221
Zone:	18	**Utm Reliability:**	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	**Construction Date:**	22-APR-83
Sec. Water Use:		**Well Depth:**	120 ft
Pump Rate:	5 GPM	**Static Water Level:**	18 ft
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Cable Tool	**Flowing (y/n):**	N
Elevation (m):	85.97	**Elevation Reliability:**	
Depth to Bedrock:	110	**Overburden/Bedrock:**	Bedrock
Water Type:	SULPHUR	**Casing Material:**	FRESH, MINERIAL
--- Details ---			
Thickness:	10 ft	**Original Depth:**	10 ft
Material Colour:	BROWN	**Material:**	SAND, LOOSE
+			
Thickness:	95 ft	**Original Depth:**	105 ft
Material Colour:	BLUE	**Material:**	CLAY, SOFT
+			
Thickness:	5 ft	**Original Depth:**	110 ft
Material Colour:	GREY	**Material:**	GRAVEL, SAND, LOOSE
+			
Thickness:	10 ft	**Original Depth:**	120 ft
Material Colour:	GREY	**Material:**	LIMESTONE, STONES, HARD

10 **1 of 1** **ENE/246.1** **86.0** **lot 7 con 11 WAVAW ON** **WWIS**

Well ID:	7175066	**Lot:**	007
Concession:	11	**Concession Name:**	CON
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:	462663	**Northing Nad83:**	5030136
Zone:	18	**Utm Reliability:**	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	**Construction Date:**	01-DEC-11
Sec. Water Use:		**Well Depth:**	36.36 m
Pump Rate:	45 LPM	**Static Water Level:**	13.52 m
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Rotary (Air)	**Flowing (y/n):**	
Elevation (m):		**Elevation Reliability:**	
Depth to Bedrock:		**Overburden/Bedrock:**	
Water Type:	FRESH	**Casing Material:**	FRESH

--- Details ---

Thickness:	1.82 m	**Original Depth:**	1.82 m
Material Colour:	YELLOW	**Material:**	SAND, , SOFT
+			
Thickness:	11.82 m	**Original Depth:**	13.64 m
Material Colour:	GREY	**Material:**	CLAY, , SOFT
+			
Thickness:	15.15 m	**Original Depth:**	28.79 m
Material Colour:	BLUE	**Material:**	CLAY, , SOFT
+			
Thickness:	1.82 m	**Original Depth:**	30.61 m
Material Colour:	GREY	**Material:**	GRAVEL, , SOFT
+			
Thickness:	5.75 m	**Original Depth:**	36.36 m
Material Colour:	GREY	**Material:**	SHALE, LIMESTONE, HARD

Unplottable Summary

Total: 51 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
CA	ABILITY MOVERS-PETER WILLEMSEN-TAYLOR CR	STORM WATER MANAGEMENT - LOT 6	CUMBERLAND TWP. ON	
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
GEN	OTTAWA-CARLTON, REGIONAL MUN OF 29-004	REGIONAL ROAD #28 (NAVAN ROAD) C/O 175 LORETTA AVENUE NORTH	OTTAWA ON	K1Y 2Z7
GEN	OTTAWA-CARLTON, REGIONAL MUN OF	REGIONAL ROAD #28 (NAVAN ROAD) C/O 175 LORETTA AVENUE NORTH	OTTAWA ON	K1Y 2Z7
GEN	OTTAWA-CARLTON, REGIONAL MUNIPALITY OF	REGIONAL ROAD #28 (NAVAN ROAD) BETWEEN NAVAN AND SARSFIELD	CUMBERLAND ON	
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	REGIONAL ROAD #28 (NAVAN ROAD) BETWEEN NAVAN AND SARSFIELD	CUMBERLAND ON	
SPL	BFI	5 KM EAST OF NAVAN ON REG ROAD 28. MOTOR VEHICLE (OPERATING FLUID)	CUMBERLAND TOWNSHIP ON	
SPL	ONTARIO HYDRO	LOT 6, CONC. 11 TRANSFORMER	CUMBERLAND TOWNSHIP ON	
WWIS		lot 7	ON	
WWIS		lot 7	ON	
WWIS		lot 7	ON	
WWIS		lot 7	ON	
WWIS		lot 6	ON	
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WWIS	lot 6	ON
WWIS	lot 7	ON

Unplottable Report

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #:	2501-6V7Q25
Application Year:	2006
Issue Date:	11/10/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***ABILITY MOVERS-PETER WILLEMSEN-TAYLOR CR***
STORM WATER MANAGEMENT - LOT 6 CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	3-2382-89-
Application Year:	89
Issue Date:	2/5/1991
Approval Type:	Municipal sewage
Status:	Approved in 1991
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #:	8790-6VKTPK
Application Year:	2007
Issue Date:	4/26/2007
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: ***OTTAWA-CARLTON, REGIONAL MUN OF 29-004***
REGIONAL ROAD #28 (NAVAN ROAD) C/O 175 LORETTA AVENUE NORTH OTTAWA ON K1Y 2Z7

Database: ***GEN***

Generator #: ON0303100
Approval Yrs: 94,95,96
SIC Code: 8351
SIC Description: EXEC./LEGIS. ADMIN.

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

Site: ***OTTAWA-CARLTON, REGIONAL MUN OF***
REGIONAL ROAD #28 (NAVAN ROAD) C/O 175 LORETTA AVENUE NORTH OTTAWA ON K1Y 2Z7

Database: ***GEN***

Generator #: ON0303100
Approval Yrs: 88,89,90
SIC Code: 8351
SIC Description: EXEC./LEGIS. ADMIN.

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

Site: ***OTTAWA-CARLTON, REGIONAL MUNIPALITY OF***
REGIONAL ROAD #28 (NAVAN ROAD) BETWEEN NAVAN AND SARSFIELD CUMBERLAND ON

Database: ***GEN***

Generator #: ON0303100
Approval Yrs: 92,93
SIC Code: 8351
SIC Description: EXEC./LEGIS. ADMIN.

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

Site: ***OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF***
REGIONAL ROAD #28 (NAVAN ROAD) BETWEEN NAVAN AND SARSFIELD CUMBERLAND ON

Database: ***GEN***

Generator #: ON0303100
Approval Yrs: 97,98,99,00,01
SIC Code: 8351
SIC Description: EXEC./LEGIS. ADMIN.

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

Site: ***BFI***
5 KM EAST OF NAVAN ON REG ROAD 28. MOTOR VEHICLE (OPERATING FLUID) CUMBERLAND TOWNSHIP ON

Database: ***SPL***

Ref NO: 99650
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 5/9/1994
Incident Reason: MATERIAL FAILURE
Incident Summary: BFI- 45 L OF HYDRAULIC FLUID TO ROADWAY FROM BROKEN LINE.
MOE Reported Dt: 5/9/1994
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20601

Site: ***ONTARIO HYDRO***
LOT 6, CONC. 11 TRANSFORMER CUMBERLAND TOWNSHIP ON

Database: ***SPL***

Ref NO:	77504
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	COOLING SYSTEM LEAK
Incident Dt:	10/13/1992
Incident Reason:	EQUIPMENT FAILURE
Incident Summary:	ONTARIO HYDRO - 20 L OF MINERAL OIL TO GROUND FROM TRANSFORMER.
MOE Reported Dt:	10/13/1992
Environmental Impact:	CONFIRMED
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20601

Site:
lot 7 ON

Database: ***WWIS***

Well ID:	1525196	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	30-OCT-90
Sec. Water Use:		***Well Depth:***	52 ft
Pump Rate:	20 GPM	***Static Water Level:***	10 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	38	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	25 ft	***Original Depth:***	25 ft
Material Colour:	BROWN	***Material:***	CLAY
+			
Thickness:	13 ft	***Original Depth:***	38 ft
Material Colour:	GREY	***Material:***	GRAVEL, SAND
+			
Thickness:	14 ft	***Original Depth:***	52 ft
Material Colour:	BROWN	***Material:***	SHALE

Site:
lot 7 ON

Database: ***WWIS***

Well ID:	1525193	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	01-NOV-90
Sec. Water Use:		***Well Depth:***	45 ft
Pump Rate:	30 GPM	***Static Water Level:***	10 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	38	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	25 ft	***Original Depth:***	25 ft
Material Colour:	BROWN	***Material:***	CLAY
+			
Thickness:	13 ft	***Original Depth:***	38 ft
Material Colour:	GREY	***Material:***	GRAVEL, SAND
+			
Thickness:	7 ft	***Original Depth:***	45 ft
Material Colour:	BROWN	***Material:***	SHALE

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1530016	***Lot:***	007
Concession:		***Concession Name:***	CON
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	15-APR-98
Sec. Water Use:		***Well Depth:***	515 ft
Pump Rate:	4 GPM	***Static Water Level:***	70 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	6	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	6 ft	***Original Depth:***	6 ft
Material Colour:	BROWN	***Material:***	CLAY, BOULDERS, HARD
+			
Thickness:	509 ft	***Original Depth:***	515 ft
Material Colour:	GREY	***Material:***	LIMESTONE, HARD

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1524658	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	03-JUL-90
Sec. Water Use:		***Well Depth:***	275 ft
Pump Rate:	12 GPM	***Static Water Level:***	
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	5	***Overburden/Bedrock:***	Bedrock
Water Type:	SALTY	***Casing Material:***	FRESH

--- Details ---

Thickness:	5 ft	***Original Depth:***	5 ft
Material Colour:	BROWN	***Material:***	STONES, SAND, LOOSE
+			
Thickness:	270 ft	***Original Depth:***	275 ft
Material Colour:	GREY	***Material:***	LIMESTONE

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1535511	***Lot:***	006
Concession:		***Concession Name:***	

County:	OTTAWA-CARLETON	***Municipality:***	
Easting Nad83:		***Northing Nad83:***	
Zone:		***Utm Reliability:***	
Primary Water Use:		***Construction Date:***	11-APR-05
Sec. Water Use:		***Well Depth:***	
Pump Rate:		***Static Water Level:***	
Flow Rate:		***Clear/Cloudy:***	
Specific Capacity:		***Final Well Status:***	
Construction Method:	Other Method	***Flowing (y/n):***	
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	No formation data
Water Type:		***Casing Material:***	

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1500388	***Lot:***	006
Concession:		***Concession Name:***	JG
County:	OTTAWA-CARLETON	***Municipality:***	OTTAWA CITY (GLOUCESTER)
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	14-OCT-47
Sec. Water Use:		***Well Depth:***	59 ft
Pump Rate:	8 GPM	***Static Water Level:***	1 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	25	***Overburden/Bedrock:***	Bedrock
Water Type:	SULPHUR	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	3 ft	***Original Depth:***	3 ft
Material Colour:		***Material:***	TOPSOIL
+			
Thickness:	17 ft	***Original Depth:***	20 ft
Material Colour:		***Material:***	CLAY
+			
Thickness:	5 ft	***Original Depth:***	25 ft
Material Colour:		***Material:***	GRAVEL
+			
Thickness:	34 ft	***Original Depth:***	59 ft
Material Colour:		***Material:***	ROCK

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1519209	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	19-JUN-82
Sec. Water Use:		***Well Depth:***	100 ft
Pump Rate:	5 GPM	***Static Water Level:***	22 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	90	***Overburden/Bedrock:***	Bedrock
Water Type:	SULPHUR	***Casing Material:***	FRESH

--- Details ---

Thickness:	10 ft	***Original Depth:***	10 ft
Material Colour:	BROWN	***Material:***	SAND, LOOSE

+

Thickness:	60 ft	***Original Depth:***	70 ft
Material Colour:	BLUE	***Material:***	CLAY, VERY, SOFT

+

Thickness:	20 ft	***Original Depth:***	90 ft
Material Colour:	BLACK	***Material:***	GRAVEL, SAND, LOOSE

+

Thickness:	10 ft	***Original Depth:***	100 ft
Material Colour:	BLUE	***Material:***	LIMESTONE, ROCK, HARD

Site:
lot 6 ON

Database: ***WWIS***

Well ID:	1519671	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	31-MAY-85
Sec. Water Use:		***Well Depth:***	92 ft
Pump Rate:	35 GPM	***Static Water Level:***	24 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	86	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	29 ft	***Original Depth:***	29 ft
Material Colour:	RED	***Material:***	CLAY

+

Thickness:	49 ft	***Original Depth:***	78 ft
Material Colour:	BLUE	***Material:***	CLAY

+

Thickness:	8 ft	***Original Depth:***	86 ft
Material Colour:	BLACK	***Material:***	GRAVEL, BOULDERS, SAND

+

Thickness:	6 ft	***Original Depth:***	92 ft
Material Colour:	BLACK	***Material:***	SHALE

Site:
lot 7 ON

Database: ***WWIS***

Well ID:	1519673	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	25-MAY-85
Sec. Water Use:		***Well Depth:***	255 ft
Pump Rate:	17 GPM	***Static Water Level:***	85 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	9	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	BROWN	***Material:***	HARDPAN, BOULDERS

+

Thickness:	242 ft	***Original Depth:***	251 ft
Material Colour:	BLUE	***Material:***	SHALE

+

Thickness:	4 ft	***Original Depth:***	255 ft

Material Colour:	BLACK	***Material:***	SHALE

Site: ***Database:***
lot 6 ON ***WWIS***

Well ID:	1519857	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	29-JUL-83
Sec. Water Use:		***Well Depth:***	74 ft
Pump Rate:	14 GPM	***Static Water Level:***	26 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	67	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	BROWN	***Material:***	SAND
+			
Thickness:	51 ft	***Original Depth:***	60 ft
Material Colour:	BLUE	***Material:***	CLAY
+			
Thickness:	7 ft	***Original Depth:***	67 ft
Material Colour:	BLACK	***Material:***	GRAVEL
+			
Thickness:	7 ft	***Original Depth:***	74 ft
Material Colour:	BLACK	***Material:***	SHALE

Site: ***Database:***
lot 7 ON ***WWIS***

Well ID:	1524618	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	OTTAWA CITY
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Cooling And A/C	***Construction Date:***	13-JUN-90
Sec. Water Use:		***Well Depth:***	21 ft
Pump Rate:		***Static Water Level:***	
Flow Rate:		***Clear/Cloudy:***	
Specific Capacity:		***Final Well Status:***	Test Hole
Construction Method:	Air Precussion	***Flowing (y/n):***	
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	12	***Overburden/Bedrock:***	Bedrock
Water Type:		***Casing Material:***	FRESH

--- Details ---

Thickness:	6 ft	***Original Depth:***	6 ft
Material Colour:	BROWN	***Material:***	SAND, LOOSE
+			
Thickness:	6 ft	***Original Depth:***	12 ft
Material Colour:	GREY	***Material:***	SAND, FINE SAND
+			
Thickness:	9 ft	***Original Depth:***	21 ft
Material Colour:	BLACK	***Material:***	SHALE, SOFT

Site: ***Database:***
lot 6 ON ***WWIS***

Well ID:	1531600	***Lot:***	006
Concession:		***Concession Name:***	

County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	27-JUN-00
Sec. Water Use:		***Well Depth:***	405 ft
Pump Rate:	4 GPM	***Static Water Level:***	90 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	0	***Overburden/Bedrock:***	Overburden below Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	4 ft	***Original Depth:***	4 ft
Material Colour:	BROWN	***Material:***	ROCK, LOOSE
+			
Thickness:	8 ft	***Original Depth:***	12 ft
Material Colour:	BROWN	***Material:***	HARDPAN, CLAY
+			
Thickness:	393 ft	***Original Depth:***	405 ft
Material Colour:	GREY	***Material:***	LIMESTONE

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1531482	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	13-SEP-00
Sec. Water Use:		***Well Depth:***	60 ft
Pump Rate:	72 GPM	***Static Water Level:***	30 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	55	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	7 ft	***Original Depth:***	7 ft
Material Colour:	BROWN	***Material:***	CLAY, SOFT
+			
Thickness:	2 ft	***Original Depth:***	9 ft
Material Colour:	YELLOW	***Material:***	SAND, SOFT
+			
Thickness:	41 ft	***Original Depth:***	50 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT
+			
Thickness:	5 ft	***Original Depth:***	55 ft
Material Colour:	BROWN	***Material:***	GRAVEL, SOFT
+			
Thickness:	5 ft	***Original Depth:***	60 ft
Material Colour:	BLACK	***Material:***	SHALE, POROUS

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1531397	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	08-AUG-00
Sec. Water Use:		***Well Depth:***	63 ft

Pump Rate:	12 GPM	***Static Water Level:***	35 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	60	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	8 ft	***Original Depth:***	8 ft
Material Colour:	YELLOW	***Material:***	SAND, SOFT
+			
Thickness:	14 ft	***Original Depth:***	22 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT
+			
Thickness:	33 ft	***Original Depth:***	55 ft
Material Colour:	BLUE	***Material:***	CLAY, SOFT
+			
Thickness:	5 ft	***Original Depth:***	60 ft
Material Colour:	BROWN	***Material:***	GRAVEL, SOFT
+			
Thickness:	3 ft	***Original Depth:***	63 ft
Material Colour:	BROWN	***Material:***	SHALE, POROUS

Site:
lot 7 ON

Database: ***WWIS***

Well ID:	1532491	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	17-DEC-01
Sec. Water Use:		***Well Depth:***	205 ft
Pump Rate:	5 GPM	***Static Water Level:***	60 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	10	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	10 ft	***Original Depth:***	10 ft
Material Colour:	BROWN	***Material:***	TILL, HARD
+			
Thickness:	195 ft	***Original Depth:***	205 ft
Material Colour:	GREY	***Material:***	LIMESTONE, LAYERED

Site:
lot 6 ON

Database: ***WWIS***

Well ID:	1532874	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	14-JUN-02
Sec. Water Use:		***Well Depth:***	180 ft
Pump Rate:	10 GPM	***Static Water Level:***	20 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	30	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	10 ft	***Original Depth:***	10 ft
Material Colour:	BROWN	***Material:***	HARDPAN, CLAY
+			
Thickness:	12 ft	***Original Depth:***	22 ft
Material Colour:	BROWN	***Material:***	CLAY
+			
Thickness:	8 ft	***Original Depth:***	30 ft
Material Colour:	GREY	***Material:***	SAND, GRAVEL, STONES
+			
Thickness:	150 ft	***Original Depth:***	180 ft
Material Colour:	GREY	***Material:***	LIMESTONE, ROCK

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1531629	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	11-NOV-99
Sec. Water Use:		***Well Depth:***	80 ft
Pump Rate:	20 GPM	***Static Water Level:***	23 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	Overburden
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	23 ft	***Original Depth:***	23 ft
Material Colour:	GREY	***Material:***	CLAY
+			
Thickness:	49 ft	***Original Depth:***	72 ft
Material Colour:	GREY	***Material:***	CLAY
+			
Thickness:	8 ft	***Original Depth:***	80 ft
Material Colour:	GREY	***Material:***	GRAVEL, LOOSE

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1529776	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	23-OCT-97
Sec. Water Use:		***Well Depth:***	61 ft
Pump Rate:	12 GPM	***Static Water Level:***	30 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	43	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	15 ft	***Original Depth:***	15 ft
Material Colour:	BROWN	***Material:***	CLAY, SOFT
+			
Thickness:	14 ft	***Original Depth:***	29 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT

+
Thickness: 14 ft **Original Depth:** 43 ft
Material Colour: GREY **Material:** GRAVEL, SAND, SOFT
+
Thickness: 18 ft **Original Depth:** 61 ft
Material Colour: BROWN **Material:** SHALE, POROUS

Site: ***Database:*** ***WWIS***
lot 6 ON

Well ID: 1528152 **Lot:** 006
Concession: **Concession Name:**
County: OTTAWA-CARLETON **Municipality:** CUMBERLAND TOWNSHIP
Easting Nad83: **Northing Nad83:**
Zone: 18 **Utm Reliability:** unknown UTM
Primary Water Use: Domestic **Construction Date:** 13-SEP-94
Sec. Water Use: **Well Depth:** 170 ft
Pump Rate: 10 GPM **Static Water Level:** 90 ft
Flow Rate: **Clear/Cloudy:** CLOUDY
Specific Capacity: **Final Well Status:** Water Supply
Construction Method: Cable Tool **Flowing (y/n):** N
Elevation (m): **Elevation Reliability:**
Depth to Bedrock: 110 **Overburden/Bedrock:** Bedrock
Water Type: FRESH **Casing Material:** FRESH

--- Details ---
Thickness: 110 ft **Original Depth:** 110 ft
Material Colour: **Material:** PREV. DRILLED
+
Thickness: 60 ft **Original Depth:** 170 ft
Material Colour: GREY **Material:** LIMESTONE

Site: ***Database:*** ***WWIS***
lot 6 ON

Well ID: 1528095 **Lot:** 006
Concession: **Concession Name:** CON
County: OTTAWA-CARLETON **Municipality:** CUMBERLAND TOWNSHIP
Easting Nad83: **Northing Nad83:**
Zone: 18 **Utm Reliability:** unknown UTM
Primary Water Use: Domestic **Construction Date:** 22-JUL-94
Sec. Water Use: **Well Depth:** 235 ft
Pump Rate: 40 GPM **Static Water Level:** 50 ft
Flow Rate: **Clear/Cloudy:** CLOUDY
Specific Capacity: **Final Well Status:** Water Supply
Construction Method: Cable Tool **Flowing (y/n):** N
Elevation (m): **Elevation Reliability:**
Depth to Bedrock: **Overburden/Bedrock:** Overburden
Water Type: FRESH **Casing Material:** FRESH

--- Details ---
Thickness: 15 ft **Original Depth:** 15 ft
Material Colour: BROWN **Material:** CLAY
+
Thickness: 185 ft **Original Depth:** 200 ft
Material Colour: GREY **Material:** CLAY
+
Thickness: 33 ft **Original Depth:** 233 ft
Material Colour: GREY **Material:** CLAY
+
Thickness: 2 ft **Original Depth:** 235 ft
Material Colour: GREY **Material:** GRAVEL, SAND

Site: ***Database:*** ***WWIS***
lot 7 ON

Well ID:	1526064	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	19-APR-91
Sec. Water Use:		***Well Depth:***	253 ft
Pump Rate:	10 GPM	***Static Water Level:***	25 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	2	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	2 ft	***Original Depth:***	2 ft
Material Colour:	BROWN	***Material:***	SAND, CLAY, FILL
+			
Thickness:	5 ft	***Original Depth:***	7 ft
Material Colour:	GREY	***Material:***	ROCK, FRACTURED
+			
Thickness:	4 ft	***Original Depth:***	11 ft
Material Colour:	GREY	***Material:***	ROCK, LAYERED
+			
Thickness:	242 ft	***Original Depth:***	253 ft
Material Colour:	GREY	***Material:***	ROCK, LIMESTONE

Site:
lot 6 ON

Database:
WWIS

Well ID:	1525835	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	28-SEP-91
Sec. Water Use:		***Well Depth:***	185 ft
Pump Rate:	7 GPM	***Static Water Level:***	65 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	0	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	185 ft	***Original Depth:***	185 ft
Material Colour:	BLACK	***Material:***	SHALE

Site:
lot 6 ON

Database:
WWIS

Well ID:	1525766	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	27-JUL-91
Sec. Water Use:		***Well Depth:***	268 ft
Pump Rate:	6 GPM	***Static Water Level:***	170 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	5	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	5 ft	***Original Depth:***	5 ft
Material Colour:	BROWN	***Material:***	FILL, STONES
+			
Thickness:	263 ft	***Original Depth:***	268 ft
Material Colour:	GREY	***Material:***	LIMESTONE, MEDIUM-GRAINED, HARD

Site: ***Database:***
lot 7 ON ***WWIS***

Well ID:	1525343	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	08-DEC-90
Sec. Water Use:		***Well Depth:***	206 ft
Pump Rate:	25 GPM	***Static Water Level:***	165 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	16	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	16 ft	***Original Depth:***	16 ft
Material Colour:	BROWN	***Material:***	HARDPAN
+			
Thickness:	171 ft	***Original Depth:***	187 ft
Material Colour:	BLUE	***Material:***	SHALE
+			
Thickness:	19 ft	***Original Depth:***	206 ft
Material Colour:	BLACK	***Material:***	SHALE

Site: ***Database:***
lot 7 ON ***WWIS***

Well ID:	1525102	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	30-OCT-90
Sec. Water Use:		***Well Depth:***	85 ft
Pump Rate:	16 GPM	***Static Water Level:***	9 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	29	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	29 ft	***Original Depth:***	29 ft
Material Colour:	BROWN	***Material:***	HARDPAN, BOULDERS
+			
Thickness:	56 ft	***Original Depth:***	85 ft
Material Colour:	BLUE	***Material:***	SHALE

Site: ***Database:***
lot 7 ON ***WWIS***

Well ID:	1529779	***Lot:***	007

Concession:		***Concession Name:***	CON
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	23-OCT-97
Sec. Water Use:		***Well Depth:***	70 ft
Pump Rate:	18 GPM	***Static Water Level:***	30 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	49	***Overburden/Bedrock:***	Bedrock
Water Type:	SULPHUR	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	15 ft	***Original Depth:***	15 ft
Material Colour:	BROWN	***Material:***	CLAY, SOFT
+			
Thickness:	14 ft	***Original Depth:***	29 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT
+			
Thickness:	20 ft	***Original Depth:***	49 ft
Material Colour:	GREY	***Material:***	GRAVEL, SOFT
+			
Thickness:	21 ft	***Original Depth:***	70 ft
Material Colour:	BROWN	***Material:***	SHALE, POROUS

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1530272	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	26-SEP-98
Sec. Water Use:		***Well Depth:***	55 ft
Pump Rate:	20 GPM	***Static Water Level:***	12 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	52	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	RED	***Material:***	CLAY, SOFT
+			
Thickness:	19 ft	***Original Depth:***	28 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT
+			
Thickness:	19 ft	***Original Depth:***	47 ft
Material Colour:	BLUE	***Material:***	CLAY, SOFT
+			
Thickness:	5 ft	***Original Depth:***	52 ft
Material Colour:	GREY	***Material:***	GRAVEL, SOFT
+			
Thickness:	3 ft	***Original Depth:***	55 ft
Material Colour:	BROWN	***Material:***	SHALE, HARD

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1524081	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP

Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:		***Construction Date:***	10-NOV-89
Sec. Water Use:		***Well Depth:***	58 ft
Pump Rate:	20 GPM	***Static Water Level:***	8 ft
Flow Rate:		***Clear/Cloudy:***	
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	39	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	12 ft	***Original Depth:***	12 ft
Material Colour:	BROWN	***Material:***	CLAY
+			
Thickness:	18 ft	***Original Depth:***	30 ft
Material Colour:	GREY	***Material:***	HARDPAN, STONES, CLAY
+			
Thickness:	9 ft	***Original Depth:***	39 ft
Material Colour:	GREY	***Material:***	GRAVEL, SAND, STONES
+			
Thickness:	19 ft	***Original Depth:***	58 ft
Material Colour:	GREY	***Material:***	LIMESTONE

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1523570	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	21-JUN-89
Sec. Water Use:		***Well Depth:***	335 ft
Pump Rate:	4 GPM	***Static Water Level:***	
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	4	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	1 ft	***Original Depth:***	1 ft
Material Colour:	BROWN	***Material:***	TOPSOIL, STONES, LOOSE
+			
Thickness:	3 ft	***Original Depth:***	4 ft
Material Colour:	BROWN	***Material:***	SAND, GRAVEL
+			
Thickness:	14 ft	***Original Depth:***	18 ft
Material Colour:	GREY	***Material:***	LIMESTONE, FRACTURED
+			
Thickness:	317 ft	***Original Depth:***	335 ft
Material Colour:	GREY	***Material:***	LIMESTONE

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1523011	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	04-NOV-88
Sec. Water Use:		***Well Depth:***	90 ft
Pump Rate:	7 GPM	***Static Water Level:***	14 ft

Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	17	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	17 ft	***Original Depth:***	17 ft
Material Colour:	BROWN	***Material:***	HARDPAN
+			
Thickness:	73 ft	***Original Depth:***	90 ft
Material Colour:	BLUE	***Material:***	SHALE

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1522683	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	20-SEP-88
Sec. Water Use:		***Well Depth:***	219 ft
Pump Rate:	12 GPM	***Static Water Level:***	68 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	0	***Overburden/Bedrock:***	Mixed in a Layer
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	2 ft	***Original Depth:***	2 ft
Material Colour:	BLACK	***Material:***	TOPSOIL, ROCK
+			
Thickness:	6 ft	***Original Depth:***	8 ft
Material Colour:	BROWN	***Material:***	SAND, GRAVEL, LOOSE
+			
Thickness:	211 ft	***Original Depth:***	219 ft
Material Colour:	GREY	***Material:***	LIMESTONE, POROUS, HARD

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1522681	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	07-JUL-88
Sec. Water Use:		***Well Depth:***	130 ft
Pump Rate:	14 GPM	***Static Water Level:***	48 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	48	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	GREY	***Material:***	CLAY, UNKNOWN TYPE, SOFT
+			
Thickness:	35 ft	***Original Depth:***	44 ft
Material Colour:	GREY	***Material:***	CLAY, SOFT

+			
Thickness:	4 ft	**Original Depth:**	48 ft
Material Colour:	GREY	**Material:**	GRAVEL, GRAVEL
+			
Thickness:	82 ft	**Original Depth:**	130 ft
Material Colour:	GREY	**Material:**	LIMESTONE, SOFT, POROUS

Site: *lot 6 ON*

Database: WWIS

Well ID:	1522680	**Lot:**	006
Concession:		**Concession Name:**	
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:		**Northing Nad83:**	
Zone:	18	**Utm Reliability:**	unknown UTM
Primary Water Use:	Domestic	**Construction Date:**	29-SEP-88
Sec. Water Use:		**Well Depth:**	320 ft
Pump Rate:		**Static Water Level:**	150 ft
Flow Rate:		**Clear/Cloudy:**	CLEAR
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Cable Tool	**Flowing (y/n):**	N
Elevation (m):		**Elevation Reliability:**	
Depth to Bedrock:	0	**Overburden/Bedrock:**	Mixed in a Layer
Water Type:	FRESH	**Casing Material:**	FRESH

--- Details ---

Thickness:	1 ft	**Original Depth:**	1 ft
Material Colour:	BLACK	**Material:**	TOPSOIL, ROCK
+			
Thickness:	6 ft	**Original Depth:**	7 ft
Material Colour:	BROWN	**Material:**	SAND, GRAVEL, LOOSE
+			
Thickness:	313 ft	**Original Depth:**	320 ft
Material Colour:	GREY	**Material:**	LIMESTONE, LAYERED, SOFT

Site: *lot 7 ON*

Database: WWIS

Well ID:	1522526	**Lot:**	007
Concession:		**Concession Name:**	
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP
Easting Nad83:		**Northing Nad83:**	
Zone:	18	**Utm Reliability:**	unknown UTM
Primary Water Use:	Domestic	**Construction Date:**	18-JUN-88
Sec. Water Use:		**Well Depth:**	42 ft
Pump Rate:	25 GPM	**Static Water Level:**	19 ft
Flow Rate:		**Clear/Cloudy:**	CLOUDY
Specific Capacity:		**Final Well Status:**	Water Supply
Construction Method:	Cable Tool	**Flowing (y/n):**	N
Elevation (m):		**Elevation Reliability:**	
Depth to Bedrock:	19	**Overburden/Bedrock:**	Bedrock
Water Type:	SULPHUR	**Casing Material:**	FRESH

--- Details ---

Thickness:	19 ft	**Original Depth:**	19 ft
Material Colour:	BROWN	**Material:**	HARDPAN
+			
Thickness:	23 ft	**Original Depth:**	42 ft
Material Colour:	BLACK	**Material:**	SHALE

Site: *lot 7 ON*

Database: WWIS

Well ID:	1522237	**Lot:**	007
Concession:		**Concession Name:**	
County:	OTTAWA-CARLETON	**Municipality:**	CUMBERLAND TOWNSHIP

Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:		***Construction Date:***	15-APR-87
Sec. Water Use:		***Well Depth:***	
Pump Rate:		***Static Water Level:***	
Flow Rate:		***Clear/Cloudy:***	
Specific Capacity:		***Final Well Status:***	Abandoned-Quality
Construction Method:	Not Known	***Flowing (y/n):***	
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	No formation data
Water Type:	SALTY	***Casing Material:***	

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1522003	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	06-AUG-87
Sec. Water Use:		***Well Depth:***	45 ft
Pump Rate:	8 GPM	***Static Water Level:***	6 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	10	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	10 ft	***Original Depth:***	10 ft
Material Colour:	BROWN	***Material:***	HARDPAN, BOULDERS, HARD
+			
Thickness:	35 ft	***Original Depth:***	45 ft
Material Colour:	GREY	***Material:***	SHALE, SOFT

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1521840	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	26-SEP-87
Sec. Water Use:		***Well Depth:***	72 ft
Pump Rate:	11 GPM	***Static Water Level:***	35 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	71	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	9 ft	***Original Depth:***	9 ft
Material Colour:	BROWN	***Material:***	SAND
+			
Thickness:	55 ft	***Original Depth:***	64 ft
Material Colour:	BLUE	***Material:***	CLAY
+			
Thickness:	7 ft	***Original Depth:***	71 ft
Material Colour:	BLACK	***Material:***	GRAVEL, SAND, FINE SAND
+			

Thickness:	1 ft	***Original Depth:***	72 ft
Material Colour:	BLACK	***Material:***	SHALE

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1521758	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	20-AUG-87
Sec. Water Use:		***Well Depth:***	106 ft
Pump Rate:	3 GPM	***Static Water Level:***	21 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	6	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	6 ft	***Original Depth:***	6 ft
Material Colour:	BROWN	***Material:***	HARDPAN
+			
Thickness:	97 ft	***Original Depth:***	103 ft
Material Colour:	BLUE	***Material:***	SHALE
+			
Thickness:	3 ft	***Original Depth:***	106 ft
Material Colour:	BLACK	***Material:***	SHALE

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1521462	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	20-JUN-86
Sec. Water Use:		***Well Depth:***	290 ft
Pump Rate:	1 GPM	***Static Water Level:***	11 ft
Flow Rate:		***Clear/Cloudy:***	CLEAR
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Rotary (Air)	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	Overburden
Water Type:	FRESH	***Casing Material:***	FRESH, MINERIAL

--- Details ---

Thickness:	4 ft	***Original Depth:***	4 ft
Material Colour:	BROWN	***Material:***	SAND, SAND, SAND
+			
Thickness:	71 ft	***Original Depth:***	75 ft
Material Colour:	BLUE	***Material:***	CLAY, CLAY, CLAY
+			
Thickness:	175 ft	***Original Depth:***	250 ft
Material Colour:	GREY	***Material:***	STONES, SILT
+			
Thickness:	40 ft	***Original Depth:***	290 ft
Material Colour:	GREY	***Material:***	SAND, GRAVEL, STONES

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1521311	***Lot:***	007

Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	20-APR-87
Sec. Water Use:		***Well Depth:***	60 ft
Pump Rate:	23 GPM	***Static Water Level:***	25 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	Overburden
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	7 ft	***Original Depth:***	7 ft
Material Colour:	BROWN	***Material:***	SAND
+			
Thickness:	49 ft	***Original Depth:***	56 ft
Material Colour:	BLUE	***Material:***	CLAY
+			
Thickness:	4 ft	***Original Depth:***	60 ft
Material Colour:	BLACK	***Material:***	GRAVEL

Site: ***Database:*** ***WWIS***

lot 6 ON

Well ID:	1520895	***Lot:***	006
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	08-OCT-86
Sec. Water Use:		***Well Depth:***	110 ft
Pump Rate:	11 GPM	***Static Water Level:***	38 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:	12	***Overburden/Bedrock:***	Bedrock
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	12 ft	***Original Depth:***	12 ft
Material Colour:	BROWN	***Material:***	HARDPAN
+			
Thickness:	98 ft	***Original Depth:***	110 ft
Material Colour:	BLUE	***Material:***	SHALE

Site: ***Database:*** ***WWIS***

lot 7 ON

Well ID:	1520201	***Lot:***	007
Concession:		***Concession Name:***	
County:	OTTAWA-CARLETON	***Municipality:***	CUMBERLAND TOWNSHIP
Easting Nad83:		***Northing Nad83:***	
Zone:	18	***Utm Reliability:***	unknown UTM
Primary Water Use:	Domestic	***Construction Date:***	05-NOV-85
Sec. Water Use:		***Well Depth:***	231 ft
Pump Rate:	21 GPM	***Static Water Level:***	40 ft
Flow Rate:		***Clear/Cloudy:***	CLOUDY
Specific Capacity:		***Final Well Status:***	Water Supply
Construction Method:	Cable Tool	***Flowing (y/n):***	N
Elevation (m):		***Elevation Reliability:***	
Depth to Bedrock:		***Overburden/Bedrock:***	Overburden
Water Type:	FRESH	***Casing Material:***	FRESH

--- Details ---

Thickness:	17 ft	***Original Depth:***	17 ft
Material Colour:	RED	***Material:***	CLAY
+			
Thickness:	202 ft	***Original Depth:***	219 ft
Material Colour:	BLUE	***Material:***	CLAY
+			
Thickness:	12 ft	***Original Depth:***	231 ft
Material Colour:	BLACK	***Material:***	GRAVEL, COARSE GRAVEL

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 Mar 2015

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2014

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: 2001-Jul 2014

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: 1948-Dec 2015

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: 1992, 1999-Jul 2014

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-Feb 2014

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Jan 2016

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-Jun 2014

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: Feb 29, 2016

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Jan 2016

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: Feb 29, 2016

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 2014

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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Current to Nov 2015

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: June 2000-Oct 2015

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-Sept 2003

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: 2010-Nov 2015

Fuel Storage Tank - Historic: Provincial FSTH

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: 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-May 2015

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: Dec 31, 2013

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: June 2009 - Nov 2015

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: 2012

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Apr 2013

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: 1994-2013

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 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: Dec 31, 2014

Oil and Gas Wells: Private OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-2015

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Aug 2015

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Jan 2016

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

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: Nov 30, 2015

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Jan 2016

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: 1986-2013

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2016

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Jul 2014

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Jun 2015

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-2013

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

The TSSA, under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

Government Publication Date: Current to Nov 2015

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Feb 29, 2016

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: 1955-Mar 2014

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.