Phase One Environmental Site Assessment
1869 Maple Grove Road
Ottawa, Ontario

Client:
10886378 Canada Incorporated
190 Lisgar Street
Ottawa, ON
K2P 0C4

Project Number:
OTT-00254187-A0

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Type of Document:
Final

Date Submitted:
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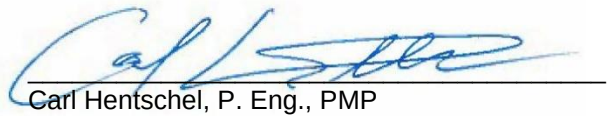

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Date Submitted:
July 3, 2019

Legal Notification

This report was prepared by EXP Services Inc. for the account of the **10886378 Canada Incorporated.**

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. EXP Services Incorporated accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project.

Executive Summary

EXP Services Inc. (EXP) was retained by the 1886378 Canada Incorporated to complete a Phase One Environmental Site Assessment (ESA) of 1869 Maple Grove Road in support of a purchase and future redevelopment.

The purpose of this Phase One ESA was to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and a Record of Site Condition (RSC) is not required.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended by Ontario Regulation 511/09 (O.Reg. 153/04), and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third party reliance are outlined in Section 8 of this report.

Please note that general environmental management and housekeeping practices were reviewed as part of this assessment insofar as they could impact the environmental condition of the property, however, a detailed review of regulatory compliance issues was beyond the scope of our investigation. This Phase One ESA does not constitute an audit of environmental management practices, indicate geotechnical conditions or identify geologic hazards.

A written response from some regulatory agencies typically requires several months to receive. If upon receipt of the response from the regulatory agencies, significant environmental issues are identified, EXP will forward their response to the client as an addendum to this report.

The Phase One Property is currently a residential lot with a total area of 0.4 hectares. The lot is defined as:

- 1869 Maple Grove Road (1 acre); Legal description of *CON 1 PT LOT 1 RP5R2908 PART;1;* PIN 044870350.

Services at the Phase One property include a private domestic water well and septic system. However, the site is also serviced by the Hydro Ottawa and Enbridge Gas distribution networks. The adjacent properties are mostly residential, with a Hydro Ottawa substation to the southeast, across Maple Grove Road.

Topographically, the Phase One property relatively flat with a slight downwards slope towards the west. Regional groundwater flow direction is to be in the southeast direction towards a nearby tributary of the Carp River.

Based on the results of the Phase One ESA completed, EXP did not identify any areas of potential environmental concern. No further work is recommended

This executive summary is a brief synopsis of the report and should not be read in lieu of reading the report in its entirety.

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1. Introduction

EXP Services Inc. (EXP) was retained by the 10886378 Canada Incorporated to complete a Phase One Environmental Site Assessment (ESA) of 1869 Maple Grove Road in support of a purchase and future redevelopment. A site location plan is presented on Figure 1 in Appendix B. At the time of the investigation, the Phase One property was owned by the client.

Owner Contact: 10886378 Canada Incorporated
190 Lisgar Street
Ottawa, Ontario K2P 0C4

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended by Ontario Regulation 511/09 (O.Reg. 153/04), and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. The scope of report and third-party reliance are outlined in Appendix A.

1.1 Objective

The purpose of this Phase One ESA was to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. EXP understands that the client to re-develop the land as medium density residential. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and a Record of Site Condition (RSC) is not required.

1.2 Phase One Property Information

The Phase One Property is currently a residential lot with a total area of 0.4 hectares. The lot is defined as:

- 1869 Maple Grove Road (1 acre); Legal description of *CON 1 PT LOT 1 RP5R2908 PART;1;* PIN 044870350.

Topographically, the Phase One property is relatively flat. The surrounding area has a slope down towards the west. Regional groundwater flow direction is inferred to be in the southeasterly direction towards a tributary of the Carp River, found 800 m to the south-southeast.

The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid is NAD83, Zone 18T, 427272m E, 5015028m N. The UTM coordinates were based on an estimate derived using Google Earth™. The accuracy of the centroid is estimated to range from 5 to 50 m.

2. Scope of Investigation

The scope of work for the Phase One ESA consisted of the following activities:

- Reviewing the historical occupancy of the Phase One property through the use of available archived and relevant municipal and business directories, fire insurance plans (FIPs), topographical maps, and aerial photographs;
- Contacting municipal and provincial agencies to determine the existence of records of environmental regulatory non-compliance, if any, and reviewing such records where available;
- Obtaining an EcoLog Environmental Risk Information Services Ltd. (ERIS) report for the Phase One property and surrounding properties within a 250 metre radius of the Phase One property;
- Reviewing available geological maps, well records and utility maps for the vicinity of the Phase One property;
- Obtaining a search of land title and assessment rolls for the Phase One property;
- Conducting at least one site reconnaissance of the Phase One property and building facilities in order to identify the presence of actual and/or potential environmental contaminants or concerns of significance;
- Conducting interviews with designated site representative(s) as a resource for current and historical site information, as well as to provide EXP staff with unrestricted access to all areas of the Phase One property and site buildings (as required by O.Reg 153/04);
- Reviewing the current use of the Phase One property and any land use practices that may have impacted its environmental condition;
- Reviewing the current use of the surrounding properties and any land use practices that may have impacted the environmental condition of the Phase One property; and,
- Preparing a report to document the findings.

In completing the scope of work, EXP did not conduct any intrusive investigations, including sampling, analyses, or monitoring.

EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others.

EXP personnel who conducted assessment work for this project included Carl Hentschel, P. Eng. and Mark McCalla, P. Geo. An outline of their qualifications is provided in Appendix A.

3. Records Review

3.1 Phase One ESA Study Area Determination

The Phase One ESA study area consisted of the surrounding neighbourhood and extended a distance of 250 metres from the Phase One property. Surrounding properties consist of residential properties to the north, east, and west and southwest, and a Hydro-Ottawa substation to the southeast. A site plan is presented as Figure 2 in Appendix B.

3.2 First Developed Use Determination

Based on a review chain of title information, air photos, city directories, and other records, the Phase One property had been developed with a single-family residence in the early 1970s. No information regarding previous uses were available.

3.3 Fire Insurance Plans

A search of The Catalogue of Canadian Fire Insurance Plans 1875 – 1975 (Catalogue) was conducted to determine if fire insurance plans for the Phase One property existed. No fire insurance plans covering the Phase One property or surrounding area were found.

3.4 Chain of Title

A chain of title was requested from Read Abstracts Inc. for the Phase One property. The title search is found in Appendix C. The current owner, Wayne Wink as owned the property since 1982. All previous owners since 1875 appear to be individuals and therefore are not an environmental concern.

3.5 Previous Reports

No previous reports were provided to EXP for review.

3.6 Regulatory Environmental Source Information

The appropriate regulatory agencies at the provincial and municipal levels were contacted to obtain information regarding environmental permits, past or pending environmental control orders or complaints, outstanding environmental regulatory non-compliance issues and Sewer Use By-Law infractions. EXP did not identify the need to contact any federal agencies.

The following agencies were contacted:

- The Ontario Ministry of the Environment, Conservation, and Parks (MECP) Freedom of Information, Protection of Privacy Office; and,
- The City of Ottawa.

Written responses from the regulatory agencies and copies of the requests are included in Appendix C.

3.6.1 Ontario Ministry of the Environment, Conservation, and Parks Records

Records pertaining to the Phase One property were requested from the MECP through the *Freedom of Information and Protection of Privacy Act* (FOI). A response has not yet been received. A copy of the request is provided in Appendix C.

- On June 14, 2019, the MECP Access Environment database website was searched for posts in the vicinity of the Phase One property. No relevant postings for the Phase One property or for the surrounding properties were listed.
- On June 14, 2019, the MECP Brownfields Registry website was searched for postings of Records of Site Condition (RSC). No relevant postings for the Phase One property or for the surrounding properties were listed.

3.6.2 Municipal Records

3.6.3.1 City Hall Records

A request for the Phase One property was made to the City of Ottawa for the Hazardous Land Use Index (HLUI). A response has not yet been received. A copy of the request is provided in Appendix C.

3.6.3.2 City of Ottawa Site Development Application Database

A review of the Site Development Application Database was conducted on June 14, 2019 for the Phase One property and the surrounding area. These entries contain an on-line record of plans and reports submitted to the City for approval prior to building permits being issued. These reports are available as part of the public record.

No entries for properties within 250 m of the subject site were found.

3.6.3 City Directory Search

Ecolog ERIS performed a city directory search of Vernon's Ottawa in order to identify the occupancy history of the Phase One Property and neighbouring properties for potential environmental concerns. This search found directories dating from 1992 to 2011 and found listings from 1996 to 2011 showing the subject site as a residential property. No other pertinent listings within 250 m of the Phase One property were found.

3.6.4 Land Use Documents

A review of the following publications was carried out as part of this Phase One ESA:

- Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario (Golder Associates, October 2004);
- Inventory of Coal Gasification Plant Waste Sites in Ontario (Intera, April 1987);
- Mapping and Assessment of Former Industrial Sites – City of Ottawa (Intera, July 1988); and,
- Ontario Inventory of PCB Storage Sites (Ontario Ministry of the Environment; 1993).

3.6.5 Old Landfill Management Strategy Phase 1 – Identification of Sites - Golder (2004)

No former landfills were identified within 250 m of the Phase One property. In addition, there is no visual evidence of a landfill in the area.

3.6.6 Inventory of Coal Gasification Plant Waste Sites in Ontario - MECP (1987)

There were no coal gasification plants identified within 250 m of the Phase One property.

3.6.7 Mapping and Assess Former Industrial Sites – Intera (1988)

There are no Intera sites identified within 250 m of the Phase One property.

3.6.8 Ontario Inventory of PCB Storage Sites - MECP (1993)

No records pertaining to PCB storage sites were identified within 250 m of the Phase One property in this document.

3.7 EcoLog ERIS Database Search

A search of provincial and federal databases for records pertaining to the Phase One property and properties within 250 metres of the Phase One property was conducted by EcoLog Environmental Risk Information Services (or EcoLog ERIS). EcoLog ERIS is an environmental database and information service provider. EXP has confirmed neither the completeness nor the accuracy of the records that were provided. A summary of the more significant findings is provided below. A copy of the EcoLog ERIS report is provided in Appendix D.

The EcoLog search identified eight (8) listings in the Phase One study area. These listings included three gas pipeline hit entries, a cosmetics business, and drilling records. None of the entries constituted a concern for the Phase One Property.

3.8 Physical Setting Review

3.8.1 Aerial Photographs

The following table summarizes the development and land use history of the Phase One property and adjacent properties as depicted on the reviewed aerial photographs. These photographs are found in Appendix E.

Table 1: Development and Land Use History Summary

Aerial Photograph (year)	Details
1931	The Phase One Property is undeveloped and is being used as an agricultural field Maple Grove Road is visible and all adjacent properties have agricultural usage.
1976	The Phase One Property is developed with a single-family residence. Maple Grove Road is visible and all adjacent properties are agricultural usage.
1991	The Phase One Property remains unchanged. A Hydro transformer substation is now visible to the southeast at 1888 Maple Grove Road; by definition, this constitutes Potentially Contaminating Activity (PCA #18 and #55).
2002	The Phase One Property remains unchanged. The adjacent agricultural fields have become overgrown.
2007	The Phase One Property remains unchanged. The lots adjacent to the north are presently being prepared for construction.
2015	The Phase One Property remains unchanged. The lots adjacent to the north, east and west have been developed with residential buildings. The lands to the south are under construction.

Aerial Photograph (year)	Details
2017	The Phase One Property remains unchanged. Some adjacent to the south have been redeveloped with residential buildings.

While the nearby Hydro Ottawa transformer station is an operation considered a PCA under Ontario regulation 153/04 (as amended), it does not contribute to an area of potential environmental concern at the Phase One property. This is based on the combination of intervening distance (over 20 m), local topography (sloping down to the west), and its estimated downgradient location due to a southeast groundwater flow direction.

3.8.2 Geology, Hydrogeology and Topography

The following information sources were reviewed to determine the nature of the subsurface materials at the Phase One property:

1. *1508A Generalized Bedrock Geology, Ottawa-Hull* –Geological Survey of Canada. Scale 1:125,000. 1979.
2. *1506A Surficial, Ottawa, Ontario-Quebec* – Geological Survey of Canada. Scale 1:50,000. 1982.
3. Ontario Geotechnical Boreholes – Electronic Resource.
4. MOE Water Well Records – Electronic Resource.
5. Department of Natural Resources, Topographic Mapping. Electronic Resource.

Based on review of the above information, the Phase One property is located in the physiographic region known as the Ottawa Formation. The bedrock in the general area is limestone with some shaley partings. With respect to surficial geology, beneath any fill, the Phase One property is underlain by Champlain Sea deposits of clay and silt under erosional terraces.

The local topography of the Phase One property relatively flat. The area around the Phase One property was observed to be on a slight downward slope towards the west.

3.8.3 Fill Materials

Significant amounts of fill are not present at the Phase One property. The Phase One property is along the same topography when compared to the neighbouring properties.

3.8.4 Water Bodies and Areas of Natural Significance (ANSI)

There were no water bodies on the Phase One property. The regional groundwater flow direction is inferred to be in the southeasterly, towards a tributary the Carp River, found 800 m to the southeast. The Phase One property is not located in close proximity to an ANSI, according to the Ministry of Natural Resources Natural Heritage website.

3.9 Site Operating Records

No site operating records were available for review.

3.10 Summary of Records Review

Based on a review of the available records, no Areas of Potential Environmental Concern were identified.

4. Interviews

Interviews were attempted by EXP with any individuals identified to be the most knowledgeable about both the current and historical site uses. The purpose of interviews is to obtain information to assist in identifying areas of potential environmental concern and identify details of potentially contaminating activities or potential contaminant pathways, in, on or below the Phase One property.

The owner's representative (Matt MacPherson) was interviewed during this Phase One ESA. He had only been involved with the property for 3 weeks and was not very knowledgeable. The present owner did provide answers via the representative regarding historic building systems and the age of the site building (i.e. built in the early 1970s).

5. Site Reconnaissance

5.1 General Requirements

On June 7, 2019, Mr. Carl Hentschel, P.Eng., PMP of EXP conducted the site visit for the property. The site visit was conducted in accordance with EXP's internal health and safety protocols and with the Ministry of Labour health and safety regulations. The purpose of the site visit was to assess the current conditions of the Phase One property.

The general environmental management and housekeeping practices at the Phase One property were reviewed as part of this assessment insofar as they could impact the environmental condition of the property; however, a detailed review of regulatory compliance issues was beyond the scope of EXP's investigation.

Observations of the subject property and surrounding properties were conducted. The exterior observations were recorded by walking over the grounds at approximately 10:00h. The weather was approximately 5° C and overcast. Adjoining properties were observed from within the grounds of the Phase One property.

Mr. Hentschel was accompanied by an owner's representative during the site visit. Photographs were taken at the Phase One property on June 7, 2019 and are included in Appendix F.

5.2 Specific Observations at Phase One ESA Property

5.2.1 Site Description and Buildings

The Phase One property is currently improved with a single-family residential building and two wooden garden sheds and an attached vehicle storage garage.

The main building is a partial two storey story with a full basement. The building is wood clad with a peaked asphalt shingle roof and a concrete foundation. The interior is finished with drywall walls and ceilings, and a combination of vinyl sheet, carpet, hardwood and ceramic tile flooring.

5.2.2 Heating and Cooling Systems

The heating system observed at the Phase One property consisted of natural-gas fired furnace, as a central air conditioning unit. The previous heating system was reportedly an electric heating coil furnace.

5.2.3 Site Utilities and Services

The Phase One property was partially disconnected from utilities. The utilities and services identified in the general area are summarized in the table below:

Table 3: Summary of Utilities in General Area

Utility	Source
Potable Water	Domestic drilled well on south side of property
Natural Gas	Enbridge
Sanitary System	Septic bed
Storm Water	Municipal storm system along roadways
Electricity	Overhead Hydro Ottawa

5.2.4 Site Use

At the time of the investigation, the building was a single-family home, and reportedly had been for its entire history.

5.2.5 Drains, Pits and Sumps

Two sump pits were observed in the basement of the site building. These discharge via a house to the northern property boundary.

5.2.6 Storage Tanks

5.2.6.1 Underground Storage Tanks

EXP did not observe any underground storage tanks (UST) during the site reconnaissance. No visual evidence such as fill / vent pipes, levelometers or oil fill lines associated with USTs were observed at the Phase One property.

5.2.6.2 Aboveground Storage Tanks

EXP did not observe any aboveground storage tanks (AST) during the site reconnaissance. No visual evidence such as cradles or support slabs were observed at the Phase One property.

5.2.7 Chemical Storage and Handling and Floor Condition

No chemicals were observed at the Phase One property other household cleaning products.

5.2.8 Areas of Stained Soil, Pavement or Stressed Vegetation

No areas of stressed vegetation or stained soil was observed.

5.2.9 Fill, Debris and Methane

The Phase One property is lower in elevation to the surrounding properties. It is not anticipated that fill was imported to the Phase One property. There are no sources of methane at the surface of the Phase One property.

5.2.10 Air Emissions

Regulatory control of air emissions in Ontario is the responsibility of the MOECC. According to the Environmental Protection Act (EPA), a Certificate of Approval (CofA) (Air) is required for the ongoing operation of any equipment that may discharge a contaminant into the natural environment if the equipment was installed, modified or altered after June 29th, 1988. Retroactive approval should be sought for equipment installed and unchanged between 1972 and June 29th, 1988 when the requirement for a CofA was added to the EPA. Unless explicitly exempted, most industrial processes or modifications to industrial processes and equipment require a CofA. The EPA provides a list of specific equipment and conditions, which are exempt from CofA (Air) requirements (i.e. fuel burning equipment for comfort heating in a building using natural gas or number 2 fuel oil at a rate of less than 1.5 million British Thermal Units per hour [BTU/hour]).

No air emissions concerns were identified at the time of the site visit.

5.2.11 Odours

No strong odours were detected during the site visit.

5.2.12 Noise

No excessive noise was detected during the site visit.

5.2.13 Special Attention Items, Hazardous Building Materials and Designated Substances

5.2.13.1 Asbestos

Asbestos-containing materials (ACMs) are fibrous hydrated silicates and can be found in building materials as either "unbound" or "bound" asbestos. Friable asbestos refers to materials where the asbestos fibres can be separated from the material with which it is associated. Non-Friable asbestos refers to asbestos, which is associated with a binding agent (such as tar or cement). Friable asbestos is commonly found in boiler and pipe insulation. Non-Friable asbestos is typically found in roofing tars, floor and ceiling tiles, and asbestos-containing cement.

ACMs in the workplace are defined as a Designated Substance under the Ontario Occupational Health and Safety Act (OHSA). Under OHSA, persons in the workplace are required to be notified of the presence of ACMs once they are suspected to be present, and if there is a potential for workers to be exposed. The use of ACMs was discontinued in Canada in the late 1970s/early 1980s, although non-friable asbestos can still be found in recently constructed buildings.

Based on the age of the building at the Phase One property (first developed in the early 1970s), it is EXP's belief that there are ACMs present within the building. EXP did not conduct any sampling for asbestos during the site reconnaissance. It is recommended that an updated Designated Substance Survey (DSS) be conducted for the Site as per O.Reg. 278/05 to identify the presence/absence of asbestos-containing materials.

5.2.13.2 Lead

Lead has frequently been used in oil-based paints, roofing materials, cornices, tank linings, electrical conduits and soft solders for tinplate and plumbing. The use of lead-based paints (LBPs) was phased out circa 1976. Paint that was produced or used between 1976 and 1980 may contain small amounts of lead. Paint that was produced or used prior to 1950 may contain high levels of lead. The main concern regarding lead paint is its potential to become lead dust or chips either through deterioration and/or mechanical means (i.e., sanding, abrasion, etc.). Exposure to lead dust or chips occurs by ingestion or inhalation.

Based on the age of the building at the Phase One property (first developed in the early 1970s), it is EXP's opinion that there is a potential for LBPs to be contained within the building. The painted surfaces noted during EXP's site visit were observed to be in good condition. The presence/absence of LBPs would be included in the recommendation for an updated DSS as per O.Reg. 278/05.

5.2.13.3 Mercury

Mercury could be found in some batteries, light bulbs, old paints, thermostats, old mirrors, etc. Based on an investigation by Consumer and Corporate Affairs Canada, and an assessment of potential health risks by Health and Welfare Canada, in 1991 the decision was made to eliminate the use of mercury compounds in indoor latex paints. The Canadian Paint and Coatings Association (CPCA) supported the withdrawal and all Canadian manufacturers and formulators of the preservative voluntarily agreed to remove "interior uses" from their product labels.

Mercury containing equipment was not observed during the Site visit, and some fluorescent light tubes were noted. Based on the age of the building (first developed in the early 1970s), there is a potential for mercury containing paints to be present at the Phase One property.

5.2.13.4 Polychlorinated Biphenyls (PCBs)

The manufacture of PCBs in North America was prohibited under the Toxic Substances Control Act (1977). Their use as a constituent of new products manufactured in or imported into Canada was prohibited by regulations in 1977 and 1980. As such, sites developed or significantly renovated after 1980 are unlikely to have PCBs-containing equipment on the Phase One property. Potential equipment, which could contain PCBs include fluorescent mercury and sodium vapour light ballasts, oil filled capacitors and transformers. Any electrical equipment containing PCBs must be disposed in accordance with Ontario Regulation 362 when it is removed from service. Ongoing operation of equipment containing PCBs is permissible.

A review of the Phase One property was conducted to evaluate the potential presence of PCBs-containing equipment in use or stored at the Site. Sources of PCBs were not observed during the site visit but based on the age of the building (first developed in the early 1970s), there is a potential for PCB bearing oils to be present within the fluorescent light ballasts.

5.2.13.5 Urea Formaldehyde Foam Insulation

Formaldehyde is a pungent, colourless gas commonly used in water solution as a preservative and disinfectant. It is also a basis for major plastics, including durable adhesives. It occurs naturally in the human body and in the outdoor environment. Formaldehyde is used to bond plywood, particleboard, carpets and fabrics, and it contributes to "that new house smell."

Formaldehyde is also a by-product of combustion; it is found in tobacco smoke, vehicle exhaust and the fumes from furnaces, fireplaces and wood stoves. While small amounts of formaldehyde are harmless, it is an irritating and toxic gas in significant concentrations. Symptoms of overexposure to formaldehyde include irritation to eyes, nose and throat; persistent cough and respiratory distress; skin irritation; nausea; headache; and dizziness.

Urea-formaldehyde foam insulation (UFFI) was developed in Europe in the 1950s as an improved means of insulating difficult-to-reach cavities in the walls. It is typically made at a construction site from a mixture of urea-formaldehyde resin, a foaming agent and compressed air. When the mixture is injected into the wall, urea and formaldehyde unite and "cure" into an insulating foam plastic.

During the 1970s, when concerns about energy efficiency led to efforts to improve building insulation in Canada, UFFI became an important insulation product for existing buildings. Most installations occurred between 1977 and the further use of UFFI was banned in Canada in 1980.

No evidence of UFFI was observed during the site visit.

5.2.13.6 Radon

Radon is a colourless, odourless, radioactive gas that occurs naturally in the environment. It comes from the natural breakdown of uranium in soils and rocks. Exposure to high levels of radon increases the risk of developing lung cancer. This relationship has prompted concern that radon levels in some Canadian buildings may pose a health risk. Radon gas can move through small spaces in the soil and rock and seep into a building through cracks in concrete, sumps, joints and basement drains. Concrete-block walls are particularly porous to radon and radon trapped in water from wells can be released into the air when the water is used.

Due to the potential health concerns associated with radon, Health Canada released a guideline in June 2007 for a maximum acceptable level of radon gas of 200 Becquerel's per cubic metre (Bq/m^3). Where radon gas is present and the annual radon concentration exceeds 200 Bq/m^3 in the normal occupancy area, Health Canada recommends taking the necessary actions to reduce radon levels.

Based on local well records and geologic investigations, the bedrock underlying the Phase One property is limestone. Based on the rock type, radon gas is not considered a concern.

5.2.13.7 Mould

Mould is found in the natural environment and is required for the breakdown of plant debris such as leaves and wood. Mould spores are found in the air in both the indoor and outdoor environments. In order for mould to grow it requires a food source (i.e. gypsum wallboard, wallpaper, wood, etc.) combined with moist conditions. Mould can have an impact on human health depending on the species and concentration of the airborne mould spores. Health effects can include allergies and mucous membrane irritation.

Currently there are no regulations governing mould; however, there are several guidelines addressing mould assessments and abatement. At the moment, the industry standards include the Canadian Construction Association (CCA) document 82-2004 titled “mould guidelines for the Canadian construction industry” and the Environmental Abatement Council of Ontario (EACO) guidelines titled “EACO Mould Abatement Guidelines, Edition 2 (2010).”

It is important to note that the Ministry of Labour (MOL) has governed protecting workers under the Occupational Health and Safety Act, which states that employers are required to take every precaution reasonable to protect their workers. This includes protecting workers from mould within workplace buildings.

No evidence of significant water damage or mould growth was observed.

5.2.13.8 Other Substances

No other special attention substances (such as acrylonitrile or isocyanates) were suspected to be present at the Phase One property at the time of this Phase One ESA.

5.2.14 Processing and Manufacturing Operations

No processing or manufacturing operations were observed or reported to have been conducted at the Phase One property.

5.2.15 Hazardous Materials Use and Storage

No hazardous materials are used or stored at the Phase One property.

5.2.16 Vehicle and Equipment Maintenance Areas

No vehicle and equipment maintenance activity were observed or reported.

5.2.17 Oil/Water Separators

No oil water separators were observed at the Phase One property.

5.2.18 Sewage and Wastewater Disposal

Sewage or wastewater generated at the Phase One property is disposed of via the domestic sewage system.

5.2.19 Solid Waste Generation, Storage & Disposal

Solid wastes generated at the Phase One property were limited to household wastes.

5.2.20 Liquid Waste Generation, Storage & Disposal

No liquid wastes were reportedly generated at the Phase One property.

5.2.21 Unidentified Substances

No unidentified substances were observed on the Phase One property at the time of the site visit. No dumping or any other deleterious materials were identified.

5.2.22 Hydraulic Lift Equipment

No hydraulic equipment was observed the Phase One property.

5.2.23 Mechanical Equipment

No mechanical equipment of concern was present on the Phase One property. An electric wheelchair lift was observed attached to the front porch.

5.2.24 Abandoned and Existing Wells

A drilled drinking water well is located on the southern part of Phase One property.

5.2.25 Roads, Parking Facilities and Right of Ways

Access to the Phase One property was from Maple Grove Road.

5.3 Adjacent and Surrounding Properties

A visual inspection of the adjacent properties and properties within 250 m of the Phase One property was conducted from publicly accessible areas to identify the occupants and document the uses and sources of potential environmental concerns that may impact the Phase One property. Refer to Figure 2 in Appendix B for the adjacent land uses.

The following land uses border the Phase One property:

- North: Bensinger Way followed by residential properties;
- West: Mykonos Crescent and residential properties;
- East: Residential properties,
- South: Maple Grove Road followed by residential properties to the southwest and a Hydro Ottawa substation to the southeast at 1888 Maple Grove Road. This substation is by definition a Potential Contaminating Activity (PCA #18 - Electricity Generation, Transformation and Power Stations & PCA #55 – Transformer Manufacturing, Processing and Use)

While the nearby Hydro Ottawa transformer station is an operation considered a PCA under Ontario regulation 153/04 (as amended), it is not considered a concern for the Phase One property. This is based on the combination of intervening distance (over 20 m), local topography (sloping down to the west), and its estimated downgradient location due to a southeast groundwater flow direction.

5.4 Summary of Site Reconnaissance

Based on the site reconnaissance of the Phase One ESA, no APECs to the Phase One property were identified.

6. Phase One ESA Conceptual Site Model

6.1 Current and Past Uses

Based on a review chain of title information, air photos, interviews, and other records, the Phase One Property had been developed as a residence in the early 1970s.

6.2 Summary of Potentially Contaminating Activities

As per Ontario Regulation (O.Reg.) 153/04 (as amended), a Potential Contaminating Activity (PCA) is defined as one of fifty-nine (59) industrial operations set out in Table 2 of Part IV that occurs or has occurred in a Phase One study area. The following PCAs were identified:

- PCA #18 and #55 – 1888 Maple Grove Road – Active Hydro Ottawa transformer substation. This does not contribute to an Area of Potential Environmental Concern (APEC) at the Phase One property Phase One property. This is based on the combination of intervening distance (over 20 m), local topography (sloping down to the west), and its estimated downgradient location due to a southeast groundwater flow direction.

No other PCAs that took place within the vicinity of the Phase One property (approximately 250 m radius) were identified.

6.3 Areas of Potential Environmental Concern

No APECs were identified at the Phase One property:

It is noted that any significant uncertainty or absence of information has the ability to affect the Phase One Conceptual Site Model. However, based on the information and findings presented within the Phase One ESA, it is EXP's opinion that any uncertainty would be minimal, and it would not alter the validity of the model presented above.

6.4 Site Characteristics

In order to develop a conceptual model for the Phase One property and surrounding study area, the following physical characteristics and pathways were considered.

6.4.1 Subsurface Stratigraphy

The Phase One Property is located in the physiographic region known as the Ottawa Formation. The bedrock in the general area is limestone with some shaley partings. With respect to surficial geology, beneath any fill, the Phase One property is underlain by Champlain Sea deposits of clay and silt under erosional terraces.

6.4.2 Estimated Groundwater Flow Direction

Topographically, the Phase One property relatively flat with a slight downwards slope towards the west in the area. Regional groundwater flow direction is to be in the southeast direction towards a nearby tributary of the Carp River.

6.4.3 Underground Utilities

Currently, the Phase One Property is serviced by a domestic water well and septic system but is near to the municipal services. The Phase One Property is serviced by an underground natural gas line.

7. Findings and Recommendations

Based on the results of the Phase One ESA completed, EXP did not identify any areas of potential environmental concern. No further work is recommended

8. References

1. Canadian Standards Association; November 2001; *Z768-0 Phase I Environmental Site Assessment*.
2. Dubreuil, L. and C. Woods; 2002; *Catalogue of Canadian Fire Insurance Plans, 1875 – 1975.*
3. Geological Survey of Canada; 1982; *1506A Surficial, Ottawa, Ontario-Quebec, Scale 1:50,000*.
4. Geological Survey of Canada; 1979; *Generalized Bedrock Geology – Ottawa-Hull, Ontario-Quebec*: Map 1508A.
5. Golder Associates Inc.; October 2004; *Old Landfill Management Strategy, City of Ottawa*.
6. Intera Technologies Ltd.; July 1998; *Mapping and Assessment of Former Industrial Sites, City of Ottawa*.
7. Ministry of Labour (MOL); *Occupational Health and Safety Act*.
8. Ontario Ministry of the Environment, *Environmental Registry website (www.ene.gov.on.ca/envision/env_reg/ebr/english/index.htm)*
9. Ontario Ministry of the Environment; 1993- 2003-2004; *Ontario Inventory of PCB Storage Sites.*
10. Ontario Ministry of the Environment; *Brownfields Registry website* (www.ene.gov.on.ca/environet/BESR/index.htm)
11. Ontario Ministry of the Environment; *Hazardous Waste Information Network website* (www.hwin.ca).
12. Ontario Ministry of the Environment; November 1988; *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario.*
13. Ontario Ministry of the Environment, Waste Management Branch; June 1991; *Waste Disposal Site Inventory.*
14. Ontario Ministry of the Environment and Intera Technologies Ltd.; June 1991; *Inventory of Coal Gasification Plant Waste Sites in Ontario*.
15. Ontario Ministry of Natural Resources, Natural Heritage website (www.mnr.gov.on.ca/MNR/nhic/areas.cfm).
16. Technical Standards and Safety Authority; May 2007; *Environmental Management Protocol for Fuel Handling Sites in Ontario*.

9. Scope of Report, and Third Party Reliance

Basis of Report

This report ("Report") is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the Phase One property the recommendations of EXP may require re-evaluation.

Reliance on Information Provided

The evaluation and conclusions contained in the Report are based on conditions in evidence at the time of site inspections and information provided to EXP by 10886378 Canada Incorporated. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by the 10886378 Canada Incorporated. EXP has relied in good faith upon such representations, information and instructions and accepts no responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of any misstatements, omissions, misrepresentation or fraudulent acts of persons providing information. Unless specifically stated otherwise, the applicability and reliability of the findings, recommendations, suggestions or opinions expressed in the Report are only valid to the extent that there has been no material alteration to or variation from any of the information provided to exp. If new information about the environmental conditions at the Phase One property is found, the information should be provided to EXP so that it can be reviewed and revisions to the conclusions and/or recommendations can be made, if warranted.

Standard of Care

The Report has been prepared in a manner consistent with the degree of care and skill exercised by engineering consultants currently practicing under similar circumstances and locale and in accordance with the MECP Reg. 511 standard. No other warranty, expressed or implied, is made. Unless specifically stated otherwise, the Report does not contain environmental consulting advice.

Complete Report

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment form part of the Report. This material includes, but is not limited to, the terms of reference given to EXP by the Heafey Group, communications between EXP and 10886378 Canada Incorporated, other reports, proposals or documents prepared by EXP for the 10886378 Canada Incorporated in connection with the Phase One property described in the Report. In order to properly understand the suggestions, recommendations and opinions expressed in the Report, reference must be made to the Report in its entirety. EXP is not responsible for use by any party of portions of the Report.

Use of Report

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of 10886378 Canada Incorporated. No other party may use or rely upon the Report in whole or in part without the written consent of EXP. Any use of the Report, or any portion of the Report, by a third party are the sole responsibility of such third party. EXP is not responsible for damages suffered by any third party resulting from unauthorised use of the Report.

Report Format

Where EXP has submitted both electronic file and a hard copy of the Report, or any document forming part of the Report, only the signed and sealed hard copy shall be the original documents for record and working purposes. In the event of a dispute or discrepancy, the hard copy shall govern. Electronic files transmitted by EXP utilize specific software and hardware systems. EXP makes no representation about the compatibility of these files with current or future software and hardware systems. Regardless of format, the documents described herein are EXP's instruments of professional service and shall not be altered without the written consent of EXP.

We trust this report satisfies your immediate requirements. If you have any questions regarding the information in this report, please do not hesitate to contact this office.

Appendices

Appendix A:
Qualifications of Assessors

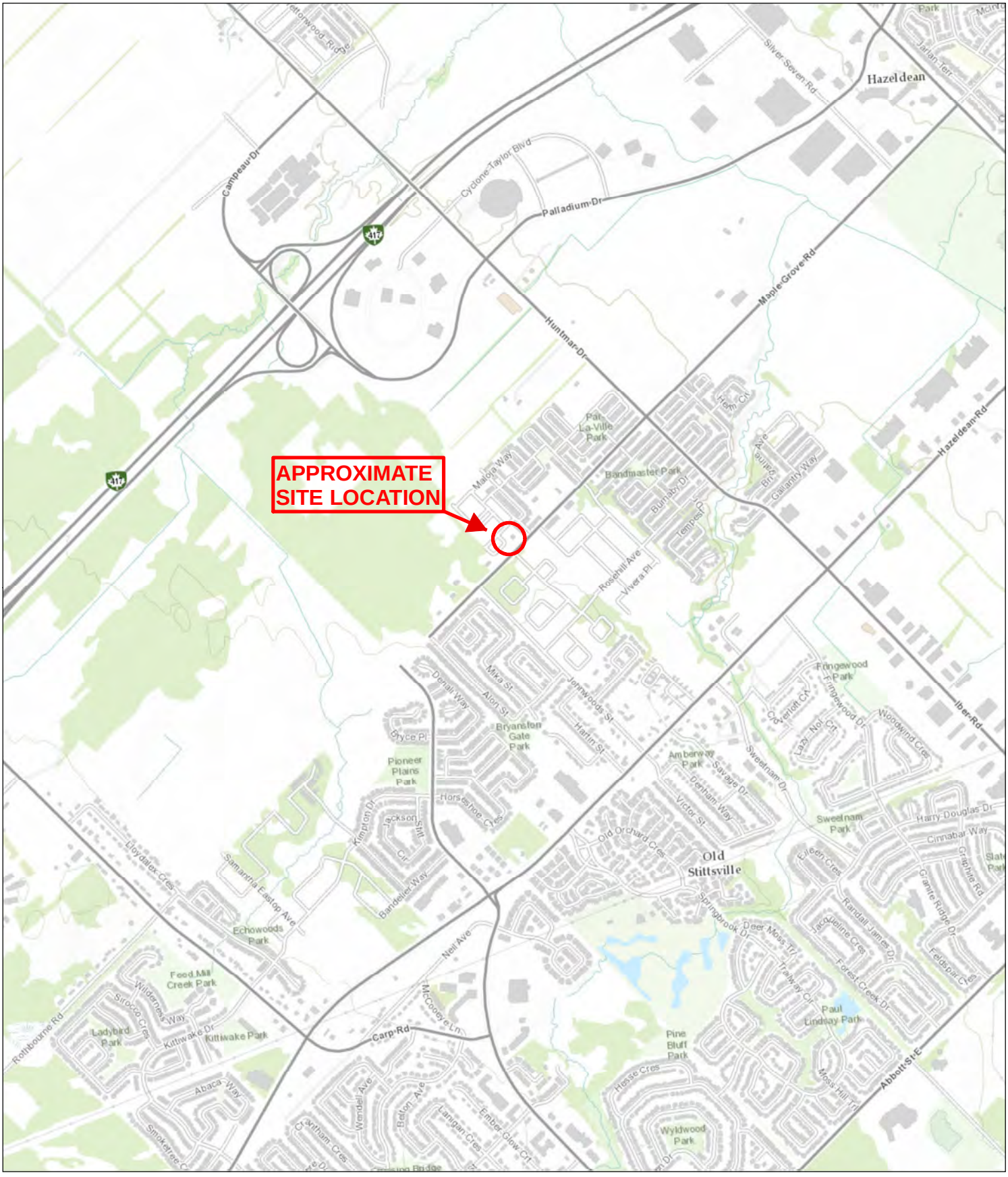
Qualifications of Assessors

EXP provides a full range of environmental services through a full-time Environmental Services Group. EXP's Earth and Environment Group has developed a strong working relationship with clients in both the private and public sectors and has developed a positive relationship with Ontario Ministry of the Environment. Personnel in the numerous branch offices form part of a large network of full-time dedicated environmental professionals in the EXP organization.

Carl Hentschel, P.Eng., PMP has 18 years of experience in the environmental consulting field working primarily in Ontario, Quebec and the northern territories. He has managed and/or completed numerous Phase I Environmental Site Assessments (ESA); Phase II ESAs, soil and groundwater remediation projects, designated substance surveys, building demolition management, environmental effects evaluations (EEE), air quality assessments, bid specification preparation, and is an experienced technical report writer and reviewer.

Mark McCalla, P.Geo., is a senior Environmental Scientist with EXP who has 29 years of experience in the environmental consulting field. His technical undertakings have including work in the following fields: Phase I and II Environmental Site Assessments; Site Specific Risk Assessments; Petroleum and chlorinated hydrocarbon contaminated sites; Soil and groundwater remediation technologies; Hydrogeological, Terrain Analysis and Aggregate Assessments; Preparation of Ontario Ministry of Environment Certificate of Approvals and Records of Site Condition. Mr. McCalla is a Qualified Person for completing Phase I and II Environmental Site Assessments as per O.Reg 153/04

Appendix B: Figures



EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
SITE LOCATION PLAN

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 1

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
SITE PLAN

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 2

Appendix C:
Title Search, Municipal & Provincial Records

READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4
Email: search@readsearch.com
Tel.: 613-236-0664
Fax: 613-236-3677

ENVIRONMENTAL SEARCH

EXP Services
Attn: Kathy

BRIEF DESCRIPTION OF LAND:

1869 Maple Grove, Ottawa
Part of Lot 1, Concession 1 Huntley

PIN: 04487-0350

LAST REGISTERED OWNER: WINK, Wayne

CHAIN OF TITLE:

Deed HU219 registered Dec 10, 1875
From Patrick Hartin to John Hartin

Deed HU9377 registered Mar 28, 1938
From John Hartin to Lila Hartin

Deed HU11875 registered Jun 25, 1963
From estate of Lila Hartin to Milton C. Hartin

Deed CT115947 registered Jan 29, 1978
From Milton C. Hartin to Lionel and Maria Winch

Deed CT173790 registered Jun 18, 1973
From Milton C. Hartin to Lionel and Maria Winch

Deed CT248428 registered May 31, 1977
From Lionel and Maria Winch to Norman Lemke

Deed NS70028 registered Oct 12, 1979
From Norman Lemke and Clara Lemke to Thomas E. and Shirley M. Duck

Deed NS157170 registered Jul 20, 1982
From Thomas E. and Shirley M. Duck to Wayne Wink

June 26, 2019

Via email:
hlui@ottawa.ca

Planning Division
City of Ottawa
110 Laurier Avenue West
Ottawa, Ontario

Re: OTT-00254187-A0 **Municipal Information Search Request**
1869 Maple Grove Road, Ottawa, Ontario

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment for 1869 Maple Grove Road, Ottawa, Ontario. We require information pertaining to the property.

We request that the City of Ottawa search their files and provide any information pertaining to the environmental condition of these properties and surrounding areas, including any past environmental reports, orders, certificates or approvals.

Please find attached the consent letter from the property owner to release this information for the property in question. A request for information form has been completed to initiate a search on the property.

If you should have any questions, please do not hesitate to contact me.

Yours truly,

EXPServices Inc.
Kathy Radisch
Administrative Assistant
Earth & Environment

Attachments: Disclaimer
RFI Form
Consent from Owner

June 28, 2019

VIA FACSIMILE:
416-314-4285

FOI Manager
Freedom of Information & Protection of Privacy Office
Ministry of the Environment, Conservation and Parks
12th Floor, 40 St. Clair Avenue West
Toronto, Ontario M4V 1M2

Re: OTT-00254187-A0 **File Review Request**
1869 Maple Grove Road, Ottawa (formerly Stittsville), Ontario

Dear Sir or Madam:

I am sending a Freedom of Information Request to you for 1869 Maple Grove Road, Ottawa (formerly Stittsville), Ontario. We are conducting an environmental site assessment and require any environmental concerns.

If possible, we would appreciate receiving the documentation by email (kathy.radisch@exp.com) and by mail. If you have any questions, or require any further information, please do not hesitate to contact the undersigned at 613-688-1891, ext. 3296.

Yours truly,
EXP Services Inc.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
Credit Card Payment Form

100 - 2650 Queensview Drive, Ottawa, Ontario K2B 8H6
T: +1.613.688.1899 • F: +1.613.225.7337 • www.exp.com

Appendix D:
EcoLog Reports

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase I ESA - 1869 Maple Grove* *1869 Maple Grove Road* *Stittsville ON K2S 1B9*
Project No:	
Report Type:	*Standard Report*
Order No:	*20190603231*
Requested by:	*exp Services Inc.*
Date Completed:	*June 10, 2019*

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

Table of Contents

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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Executive Summary

Property Information:

Project Property:	*Phase I ESA - 1869 Maple Grove* *1869 Maple Grove Road Stittsville ON K2S 1B9*
Project No:	

Coordinates:

Latitude:	*45.284974*
Longitude:	*-75.927373*
UTM Northing:	*5,015,026.52*
UTM Easting:	*427,272.09*
UTM Zone:	*UTM Zone 18T*

Elevation:	*354 FT* *107.88 M*

Order Information:

Order No:	*20190603231*
Date Requested:	*June 3, 2019*
Requested by:	*exp Services Inc.*
Report Type:	*Standard Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection - .tiff files*
City Directory Search	*CD - Subject Site*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	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	1	1
CA	*Certificates of Approval*	Y	0	0	0
CDRY	*Dry Cleaning Facilities*	Y	0	0	0
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	1	1
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EPAR	*Environmental Penalty Annual Report*	Y	0	0	0
EXP	*List of TSSA Expired Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	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

Database	Name	Searched	Project Property	Within 0.25 km	Total
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	2	2
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	1	1
SPL	Ontario Spills	Y	0	1	1
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	2	2
	Total:	0	8	8	

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	PINC		822 MALOJA WAY, STITTSVILLE ON	NNW/66.4	0.00	13
2	BORE		ON	SW/110.4	0.00	13
2	WWIS		lot 1 con 1 ON ***Well ID:*** 1511241	SW/110.4	0.00	14
3	WWIS		lot 1 con 1 ON ***Well ID:*** 1513367	WSW/132.2	0.00	16
4	SCT	Canomega Industries Inc.	1849 Maple Grove Rd Stittsville ON K2S 1B9	NE/170.3	0.03	20
5	PINC		40 SWEETBAY CIRCLE, OTTAWA ON	SSW/238.8	1.00	20
5	SPL	Enbridge Gas Distribution Inc.	40 Sweet Bay Circle Ottawa ON	SSW/238.8	1.00	21
6	EHS		53 Mika St Ottawa ON K2S1K6	SSW/249.2	1.00	21

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	SW	110.41	2

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Apr 30, 2019 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	53 Mika St Ottawa ON K2S1K6	SSW	249.20	6

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 2 PINC site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	822 MALOJA WAY, STITTSVILLE ON	NNW	66.44	1
	40 SWEETBAY CIRCLE, OTTAWA ON	SSW	238.77	5

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Canomega Industries Inc.	1849 Maple Grove Rd Stittsville ON K2S 1B9	NE	170.33	4

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key

SPL - Ontario Spills

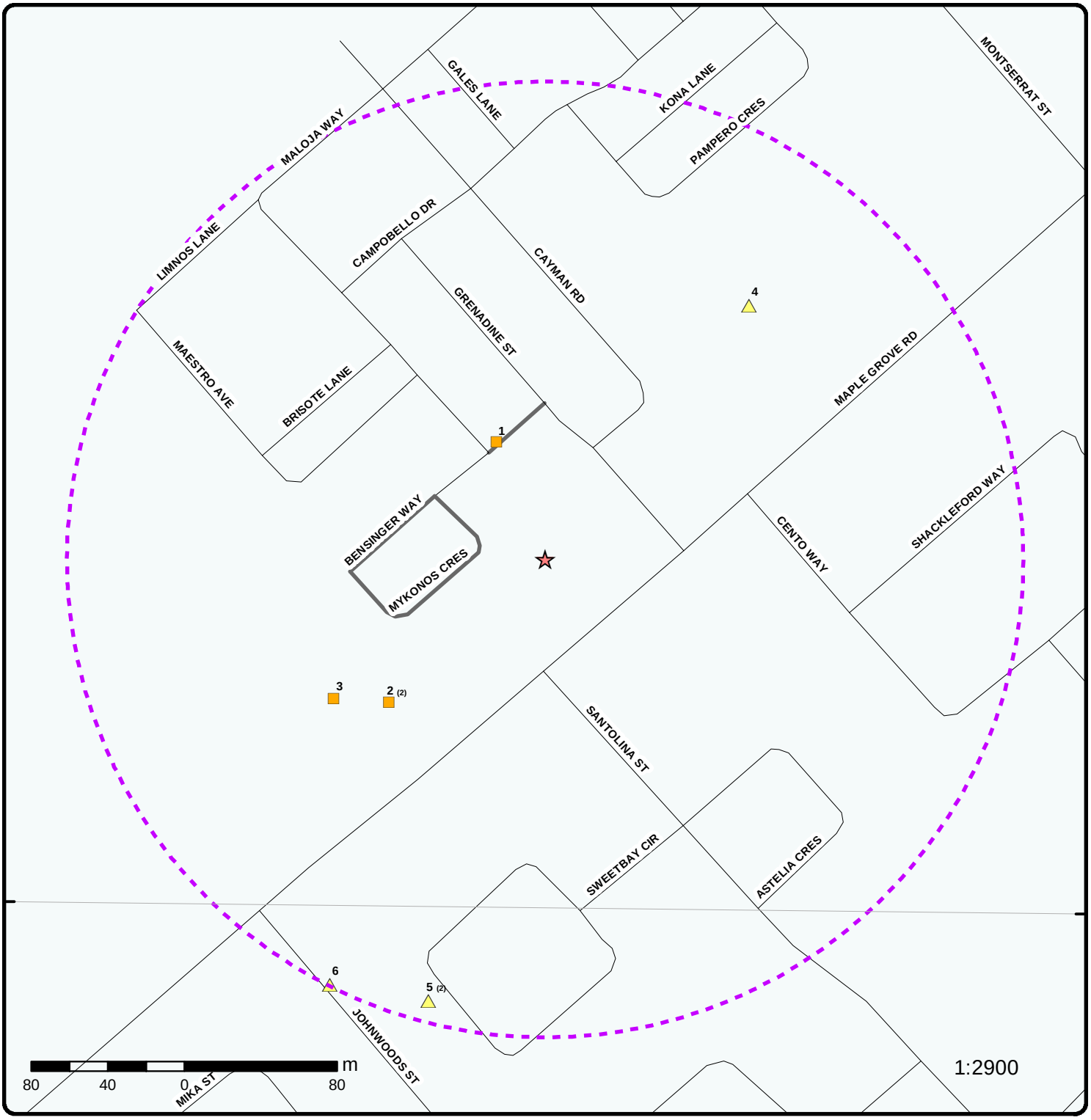
A search of the SPL database, dated 1988-Feb 2019 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	40 Sweet Bay Circle Ottawa ON	SSW	238.77	5

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 2 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 1 con 1 ON ***Well ID:*** 1511241	SW	110.41	2
	lot 1 con 1 ON ***Well ID:*** 1513367	WSW	132.16	3



Map : 0.25 Kilometer Radius

Order No: 20190603231

Address: 1869 Maple Grove Road, Stittsville, ON, K2S 1B9

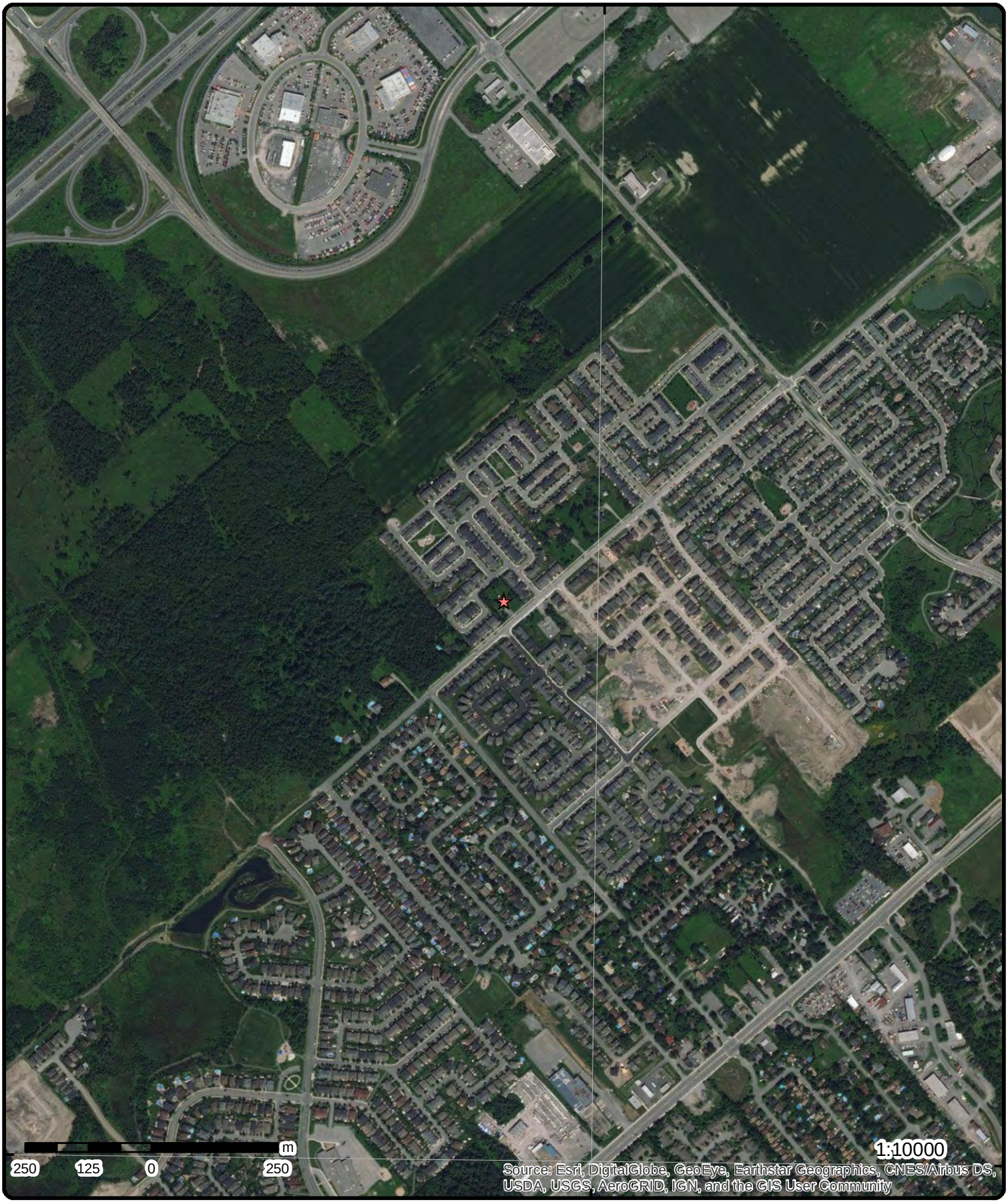
ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

- 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.

© ERIS Information Limited Partnership

75°55'30"W



45°16'30"N

45°16'30"N

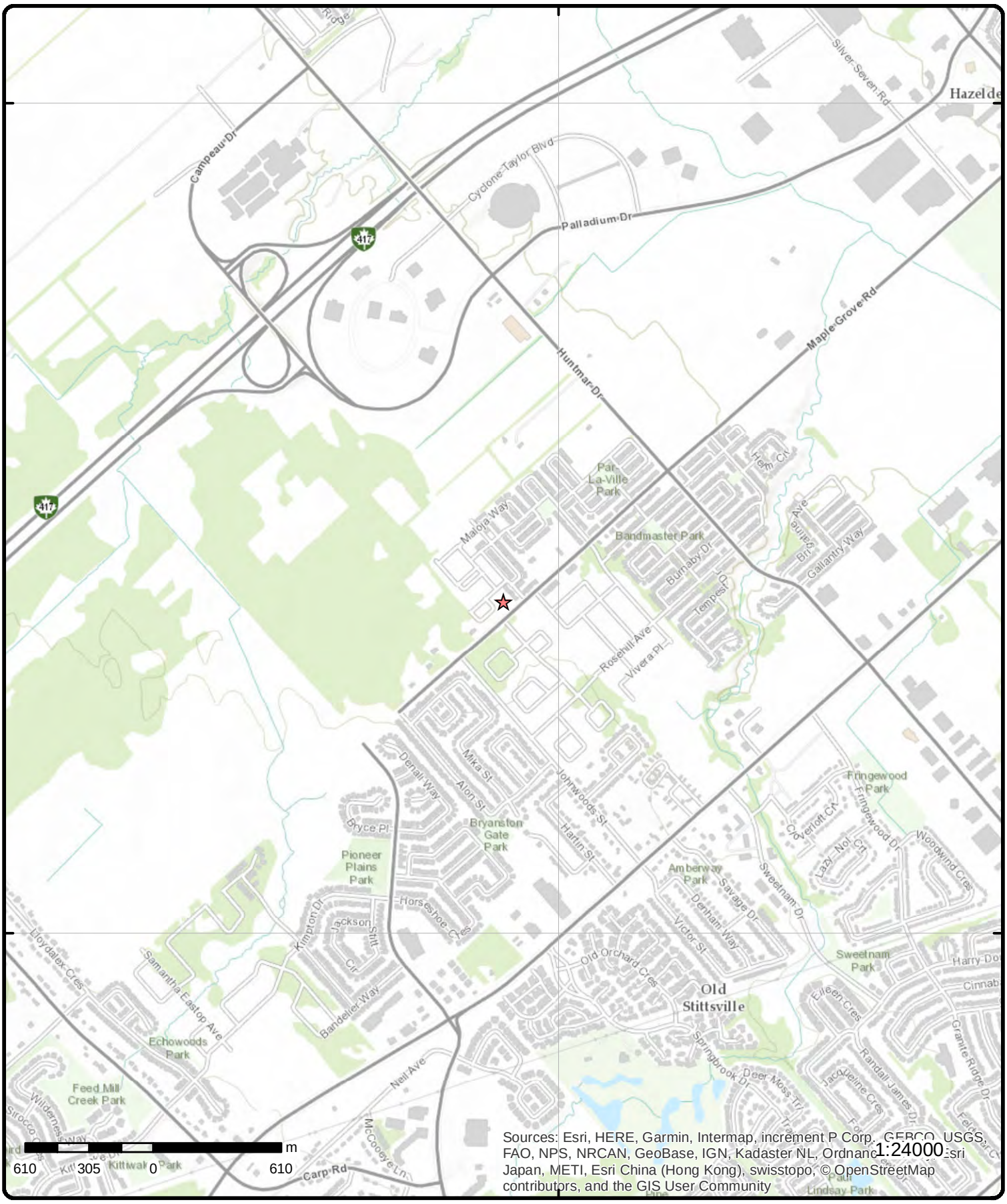
Aerial (2017)

Order No: 20190603231

Address: 1869 Maple Grove Road, Stittsville, ON, K2S 1B9

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order No: 20190603231

Address: 1869 Maple Grove Road, Stittsville, ON, K2S 1B9

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	NNW/66.4	107.9 / 0.00	822 MALOJA WAY, STITTSVILLE ON	PINC

Incident ID:		**Health Impact:**	
Incident No:	1472896	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	
Task No:	5167193	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regualtor Location:**	
Occurrence Start Date:	2014/09/16		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	822 MALOJA WAY, STITTSVILLE - PIPELINE HIT - 1/2"		
Reported By:	Jeff Stiles - Enbridge Gas		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 2	SW/110.4	107.9 / 0.00	ON	BORE

Borehole ID:	609623	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	427191	**Northing:**	5014952
Location Accuracy:		**Orig. Ground Elev m:**	106
Elev. Reliability Note:		**DEM Ground Elev m:**	106
Total Depth m:	26.8	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	JUN-1971	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218383661	**Top Depth(m):**	0.0
Bottom Depth(m):	2.4	**Stratum Desc:**	SOIL,CLAY.
Stratum ID:	218383662	**Top Depth(m):**	2.4
Bottom Depth(m):	26.8	**Stratum Desc:**	LIMESTONE. GREY. 00060 00045RS. GREY. LIMESTONE. GREY. 00111SEISMIC VELOCITY = 1150

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 2	SW/110.4	107.9 / 0.00	lot 1 con 1 ON	WWIS

Well ID: 1511241
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/7/1971
Selected Flag: Yes
Abandonment Rec:
Contractor: 3504
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: HUNTLEY TOWNSHIP
Site Info:
Lot: 001
Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10033238
DP2BR: 8
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/4/1971
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 106.948577
Elevrc:
Zone: 18
East83: 427190.6
North83: 5014952
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931017120
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931017121

Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	8
Formation End Depth:	88
Formation End Depth UOM:	ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID:	10581808
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930058991
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991511241
Pump Set At:	
Static Level:	8
Final Level After Pumping:	45
Recommended Pump Depth:	65
Pumping Rate:	7
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934381760

Test Type:	Recovery
Test Duration:	30
Test Level:	11
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934097774
Test Type:	Recovery
Test Duration:	15
Test Level:	22
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934900817
Test Type:	Recovery
Test Duration:	60
Test Level:	9
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934643338
Test Type:	Recovery
Test Duration:	45
Test Level:	9
Test Level UOM:	ft

Water Details

Water ID:	933466340
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60
Water Found Depth UOM:	ft

Water Details

Water ID:	933466341
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	84
Water Found Depth UOM:	ft

3 ***1 of 1*** ***WSW/132.2*** ***107.9 / 0.00*** ***lot 1 con 1 ON*** ***WWIS***

Well ID:	1513367	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/13/1973
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	HUNTLEY TOWNSHIP

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10035354	**Elevation:**	106.976394
DP2BR:	9	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	427161.6
Code OB Desc:	Bedrock	**North83:**	5014954
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/11/1973	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931023176
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	9
Formation End Depth:	105
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023178
Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	125
Formation End Depth:	223
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023175
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Other Materials:	SAND
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	9
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023177
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	105
Formation End Depth:	125
Formation End Depth UOM:	ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID:	10583924
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930062612
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	223
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930062611
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513367
Pump Set At:	
Static Level:	30
Final Level After Pumping:	90
Recommended Pump Depth:	110
Pumping Rate:	6
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934378594
Test Type:	Draw Down
Test Duration:	30
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934639589
Test Type:	Draw Down
Test Duration:	45
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099202
Test Type:	Draw Down
Test Duration:	15
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934897060
Test Type:	Draw Down
Test Duration:	60
Test Level:	90
Test Level UOM:	ft

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

Water Details

Water ID: 933468903
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 220
Water Found Depth UOM: ft

Water Details

Water ID: 933468902
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 85
Water Found Depth UOM: ft

---

4 | ***1 of 1*** | ***NE/170.3*** | ***107.9 / 0.03*** | ***Canomega Industries Inc.***
1849 Maple Grove Rd
Stittsville ON K2S 1B9 | ***SCT***

Established: 01-AUG-96
Plant Size (ft²): 3000
Employment:

--Details--
Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

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5 | ***1 of 2*** | ***SSW/238.8*** | ***108.9 / 1.00*** | ***40 SWEETBAY CIRCLE, OTTAWA ON*** | ***PINC***

Incident ID:
Incident No: 1956844
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Fuel Occurrence Tp:
Fuel Type:
Tank Status: RC Established
Task No: 6376578
Spills Action Centre:
Method Details: E-mail
Fuel Category: Natural Gas
Date of Occurrence:
Occurrence Start Date: 2016/10/11
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 40 SWEETBAY CIRCLE, OTTAWA - PIPELINE HIT - 1/2"
Reported By: John Hardie - ENBRIDGE
Affiliation:
Occurrence Desc:
Damage Reason: Excavation practices not sufficient

Health Impact:
Environment Impact:
Property Damage: No
Service Interupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
Depth:
Pipe Material:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regualtor Location:

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

5 | 2 of 2 | SSW/238.8 | 108.9 / 1.00 | Enbridge Gas Distribution Inc.
40 Sweet Bay Circle
Ottawa ON | SPL

Ref No:	6013-AEMK4G	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	10/11/2016	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:		Sector Type:	Miscellaneous Industrial
Incident Event:	Leak/Break	Agency Involved:	
Contaminant Code:	35	Nearest Watercourse:	
Contaminant Name:	NATURAL GAS (METHANE)	Site Address:	40 Sweet Bay Circle
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:	Air	Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	10/11/2016	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Air Spills - Gases and Vapours
Incident Reason:	Operator/Human Error	Source Type:	
Site Name:	Residential Property<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA 1/2" plastic service line strike, made safe, Ottawa, ON		
Contaminant Qty:	0 other - see incident description		

6 | 1 of 1 | SSW/249.2 | 108.9 / 1.00 | 53 Mika St
Ottawa ON K2S1K6 | EHS

Order No:	20180322224	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Custom Report	Client Prov/State:	ON
Report Date:	02-APR-18	Search Radius (km):	.25
Date Received:	22-MAR-18	X:	-75.928773
Previous Site Name:		Y:	45.282961
Lot/Building Size:			
Additional Info Ordered:			

Unplottable Summary

Total: 19 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 1 Con Junction Gore	City of Ottawa ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
EBR	Tartan Land Consultants Inc.	South side of Maple Grove Rd. and east of Johnwoods St., in Ottawa Lots 26 & 27, Concession 12, Geographic Township of Goulbourn CITY OF OTTAWA	ON	
EBR	Mattamy Homes Limited	Maple Grove Road, Part of Lot 26, Concession 12 CITY OF OTTAWA GOULBOURN	ON	
EBR	Tartan Land Consultants Inc.	Lot 26 and 27, Concession 12, Goulbourn Township, Stittsville CITY OF OTTAWA GOULBOURN	ON	
ECA	Mattamy (Fairwinds North) Limited	Part 1, Reference Plan M	Ottawa ON	K2K 2M5
ECA	Mattamy (Fairwinds North) Limited		Ottawa ON	K2K 2M5
PTTW	Mattamy (Fairwinds) Limited	Area 1- Fairwinds Phase 1,2,3 North - North of Maple Grove Road and West of Huntmar Drive Address: Lot: 1, Concession: 1, Ottawa District Office: Ottawa	HUNTLEY ON	
PTTW	1534524 Ontario Inc.	Maple Grove Road Lot 26, Concession 2, Geographic Township of Goulbourn City of Ottawa, Ontario CITY OF OTTAWA	ON	
SPL	Taggart Construction Limited	Maple Grove Rd	Ottawa ON	
WWIS		lot 1	ON	
WWIS		lot 1	ON	
WWIS		lot 1 con 1	ON	
WWIS		lot 1	ON	

WWIS	lot 26	ON
WWIS	con 1	ON
WWIS	lot 1	ON

Unplottable Report

Site: **Database:** AAGR

Lot 1 Con Junction Gore City of Ottawa ON

Type:	Quarry
Region/County:	Ottawa-Carleton
Township:	City of Ottawa
Concession:	Junction Gore
Lot:	1
Size (ha):	1.8
Landuse:	
Comments:	

Site: ***Mattamy (Fairwinds North) Limited Ottawa ON*** **Database:** CA

Certificate #:	9354-7SUKYU
Application Year:	2009
Issue Date:	8/21/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Mattamy (Fairwinds North) Limited Ottawa ON*** **Database:** CA

Certificate #:	3072-772PDS
Application Year:	2007
Issue Date:	9/17/2007
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: ***Mattamy (Fairwinds North) Limited Ottawa ON*** **Database:** CA

Certificate #:	0316-7QER2U
Application Year:	2009
Issue Date:	4/8/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	

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

Site: ***Tartan Land Consultants Inc.***
South side of Maple Grove Rd. and east of Johnwoods St., in Ottawa Lots 26 & 27, Concession 12, Geographic Township of Goulbourn CITY OF OTTAWA ON

Database: ***EBR***

EBR Registry No:	012-3895	***Proposal Date:***	April 09, 2015
Ministry Ref. No:	MNRF INST 29/15	***Notice Pub Date:***	June 24, 2015
Notice Type:	Instrument Decision	***Year:***	2015
Company Name:	Tartan Land Consultants Inc.		
Proponent Name:			
Proponent Address:	237 Somerset Street West, Ottawa Ontario, Canada K2S 0J3		
Instrument Type:	(ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species		
Location Other:			
URL:			

Location:

South side of Maple Grove Rd. and east of Johnwoods St., in Ottawa Lots 26 & 27, Concession 12, Geographic Township of Goulbourn CITY OF OTTAWA

Site: ***Mattamy Homes Limited***
Maple Grove Road, Part of Lot 26, Concession 12 CITY OF OTTAWA GOULBOURN ON

Database: ***EBR***

EBR Registry No:	011-9579	***Proposal Date:***	July 10, 2013
Ministry Ref. No:	MNR INST 44/13	***Notice Pub Date:***	February 04, 2016
Notice Type:	Instrument Decision	***Year:***	2013
Company Name:	Mattamy Homes Limited		
Proponent Name:			
Proponent Address:	50 Hines Road, Suite 100, Ottawa Ontario, Canada K2K 2M5		
Instrument Type:	(ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species		
Location Other:			
URL:			

Location:

Maple Grove Road, Part of Lot 26, Concession 12 CITY OF OTTAWA GOULBOURN

Site: ***Tartan Land Consultants Inc.***
Lot 26 and 27, Concession 12, Goulbourn Township, Stittsville CITY OF OTTAWA GOULBOURN ON

Database: ***EBR***

EBR Registry No:	011-5086	***Proposal Date:***	December 21, 2011
Ministry Ref. No:	MNR INST 66/11	***Notice Pub Date:***	October 09, 2013
Notice Type:	Instrument Decision	***Year:***	2011
Company Name:	Tartan Land Consultants Inc.		
Proponent Name:			
Proponent Address:	237 Somerset Street West, Ottawa Ontario, Canada K2S 0J3		
Instrument Type:	(ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species		
Location Other:			
URL:			

Location:

Lot 26 and 27, Concession 12, Goulbourn Township, Stittsville CITY OF OTTAWA GOULBOURN

Site: ***Mattamy (Fairwinds North) Limited*** ***Database:***

Part 1, Reference Plan M Ottawa ON K2K 2M5

ECA

Approval No:	6206-8X7JWX	***MOE District:***	
Approval Date:	2012-08-16	***City:***	Ottawa
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:	Part 1, Reference Plan M		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4053-8VWQZH-14.pdf		

Site: ***Mattamy (Fairwinds North) Limited***
Ottawa ON K2K 2M5

Database:
ECA

Approval No:	1716-9CHP4Z	***MOE District:***	
Approval Date:	2013-11-04	***City:***	Ottawa
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6344-99RLLF-14.pdf		

Site: ***Mattamy (Fairwinds) Limited***
Area 1- Fairwinds Phase 1,2,3 North - North of Maple Grove Road and West of Huntmar Drive Address: Lot: 1, Concession: 1, Ottawa District Office: Ottawa HUNTLEY ON

Database:
PTTW

EBR Registry No:	011-3719	***Proposal Date:***	May 30, 2011
Ministry Ref. No:	3640-8HCJ8K	***Notice Date:***	June 14, 2011
Notice Type:	Instrument Decision	***Year:***	2011
Company Name:	Mattamy (Fairwinds) Limited		
Proponent Name:			
Proponent Address:	123 Huntmar Drive, Kanata Ontario, Canada K2S 1B9		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Location Other:			
URL:			

Location:

Area 1- Fairwinds Phase 1,2,3 North - North of Maple Grove Road and West of Huntmar Drive Address: Lot: 1, Concession: 1, Ottawa District Office: Ottawa HUNTLEY

Site: ***1534524 Ontario Inc.***
Maple Grove Road Lot 26, Concession 2, Geographic Township of Goulbourn City of Ottawa, Ontario CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No:	012-0686	***Proposal Date:***	December 17, 2013
Ministry Ref. No:	1527-9EFLU5	***Notice Date:***	June 05, 2014
Notice Type:	Instrument Decision	***Year:***	2013
Company Name:	1534524 Ontario Inc.		
Proponent Name:			
Proponent Address:	237 Somerset Street West, Ottawa Ontario, Canada K2P 0J3		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Location Other:			
URL:			

Location:

Site: ***Taggart Construction Limited***
Maple Grove Rd Ottawa ON

Database: ***SPL***

Ref No:	3642-AGCRUN	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2016/12/01	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other
Incident Event:	Other	***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	***Site Address:***	Maple Grove Rd
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Surface Water	***Northing:***	5016168
MOE Response:	No	***Easting:***	428634
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2016/12/05	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Weather Conditions	***Source Type:***	
Site Name:	Pool Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Taggart Construction - Sediment to Poole Creek		
Contaminant Qty:			

Site:
lot 1 ON

Database: ***WWIS***

Well ID:	1525114	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/7/1990
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3749
Casing Material:		***Form Version:***	1
Audit No:	91522	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	HUNTLEY TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10046856	***Elevation:***	
DP2BR:	0	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9

Date Completed: 10/11/1990
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931060121
Layer: 1
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2: 06
Other Materials: SILT
Mat3: 77
Other Materials: LOOSE
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931060122
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 75
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111049
Layer: 1
Plug From: 6
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10595426
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930082050
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991525114
Pump Set At:	
Static Level:	14
Final Level After Pumping:	31
Recommended Pump Depth:	68
Pumping Rate:	12
Flowing Rate:	
Recommended Pump Rate:	8
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934386527
Test Type:	Draw Down
Test Duration:	30
Test Level:	27
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934656303
Test Type:	Draw Down
Test Duration:	45
Test Level:	31
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934111121
Test Type:	Draw Down
Test Duration:	15
Test Level:	19
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934904673
Test Type:	Draw Down
Test Duration:	60
Test Level:	31
Test Level UOM:	ft

Water Details

Water ID:	933483987
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	72
Water Found Depth UOM:	ft

Water Details

Water ID:	933483986
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	36
Water Found Depth UOM:	ft

Site:
lot 1 ON

Database:
WWIS

Well ID:	1518217	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	5/6/1983
Sec. Water Use:	Livestock	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10040087	***Elevation:***	
DP2BR:	52	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	3/21/1983	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931037742
Layer:	4
Color:	2
General Color:	GREY

Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 52
Formation End Depth: 167
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931037740
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3: 14
Other Materials: HARDPAN
Formation Top Depth: 15
Formation End Depth: 35
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931037741
Layer: 3
Color: 2
General Color: GREY
Mat1: 13
Most Common Material: BOULDERS
Mat2: 14
Other Materials: HARDPAN
Mat3:
Other Materials:
Formation Top Depth: 35
Formation End Depth: 52
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931037739
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 1

Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10588657
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930069992
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 53
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930069993
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 167
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991518217
Pump Set At:
Static Level: 25
Final Level After Pumping: 60
Recommended Pump Depth: 90
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934103534
Test Type:
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934897806
Test Type:

Test Duration: 60
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378286
Test Type:
Test Duration: 30
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934639345
Test Type:
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Water Details

Water ID: 933474886
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 148
Water Found Depth UOM: ft

Water Details

Water ID: 933474885
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 80
Water Found Depth UOM: ft

Water Details

Water ID: 933474887
Layer: 3
Kind Code: 5
Kind: Not stated
Water Found Depth: 162
Water Found Depth UOM: ft

Site:
lot 1 con 1 ON

Database:
WWIS

Well ID: 1520987
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 11/27/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: STITTSVILLE VILLAGE
Site Info:
Lot: 001
Concession: 01
Concession Name: CON

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042828
DP2BR: 10
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/13/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931046486
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931046488
Layer: 3
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 22
Formation End Depth: 145
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931046487
Layer: 2
Color: 7
General Color: RED
Mat1: 26

Most Common Material: ROCK
Mat2: 71
Other Materials: FRACTURED
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 22
Formation End Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10591398
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074752
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074753
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 145
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520987
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 6
Pumping Duration MIN: 0
Flowing: N

Water Details

Water ID:	933478413
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	140
Water Found Depth UOM:	ft

Water Details

Water ID:	933478412
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	50
Water Found Depth UOM:	ft

Site:
lot 1 ON

Database:
WWIS

Well ID:	1525458	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/14/1991
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3749
Casing Material:		***Form Version:***	1
Audit No:	91540	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	HUNTLEY TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10047196	***Elevation:***	
DP2BR:	4	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	5/7/1991	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931061214
Layer:	2

Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 18
Other Materials: SANDSTONE
Mat3: 74
Other Materials: LAYERED
Formation Top Depth: 4
Formation End Depth: 105
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061213
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111211
Layer: 1
Plug From: 6
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10595766
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082633
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	930082634
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	105
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991525458
Pump Set At:	
Static Level:	31
Final Level After Pumping:	64
Recommended Pump Depth:	90
Pumping Rate:	7
Flowing Rate:	
Recommended Pump Rate:	6
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934112281
Test Type:	Draw Down
Test Duration:	15
Test Level:	44
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934648643
Test Type:	Draw Down
Test Duration:	45
Test Level:	64
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934905823
Test Type:	Draw Down
Test Duration:	60
Test Level:	64
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934387685
Test Type:	Draw Down
Test Duration:	30
Test Level:	56
Test Level UOM:	ft

Water Details

Water ID: 933484456
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68
Water Found Depth UOM: ft

Water Details

Water ID: 933484457
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 94
Water Found Depth UOM: ft

Site:
lot 26 ON

Database:
WWIS

Well ID: 1530824
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 208225
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/14/1999
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: HUNTLEY TOWNSHIP
Site Info:
Lot: 026
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052358
DP2BR: 20
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 10/1/1999
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931076694
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN

Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931076695
Layer: 2
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 20
Formation End Depth: 60
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933115983
Layer: 1
Plug From: 0
Plug To: 26
Plug Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10600928
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091410
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 26
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530824
Pump Set At:

Static Level: 8
Final Level After Pumping: 60
Recommended Pump Depth: 30
Pumping Rate: 40
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934663592
Test Type: Recovery
Test Duration: 45
Test Level: 8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934119453
Test Type: Recovery
Test Duration: 15
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903324
Test Type: Recovery
Test Duration: 60
Test Level: 8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934386191
Test Type: Recovery
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Water Details

Water ID: 933491083
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 30
Water Found Depth UOM: ft

Water Details

Water ID: 933491084
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

Site:
con 1 ON

Database:
WWIS

Well ID:	1514784	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	7/23/1975
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3658
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	HUNTLEY TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10036754	***Elevation:***	
DP2BR:	36	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	5/27/1975	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931027299
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	13
Other Materials:	BOULDERS
Mat3:	77
Other Materials:	LOOSE
Formation Top Depth:	0
Formation End Depth:	36
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027300
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15

Most Common Material: LIMESTONE
Mat2: 78
Other Materials: MEDIUM-GRAINED
Mat3: 73
Other Materials: HARD
Formation Top Depth: 36
Formation End Depth: 105
Formation End Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10585324
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930064971
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930064970
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 38
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991514784
Pump Set At:
Static Level: 7
Final Level After Pumping: 30
Recommended Pump Depth:
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934100600
Test Type:
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644601
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902070
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934383615
Test Type:
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933470745
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 100
Water Found Depth UOM: ft

Water Details

Water ID: 933470744
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90
Water Found Depth UOM: ft

Site:
lot 1 ON

Database:
WWIS

Well ID: 1528635
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 149566
Tag:
Construction Method:

Data Entry Status:
Data Src: 1
Date Received: 8/28/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON

Elevation (m):		***Municipality:***	HUNTLEY TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10050171	***Elevation:***	
DP2BR:	3	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	12/6/1993	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931070312
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	46
Other Materials:	QUARTZ
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	165
Formation End Depth:	195
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931070311
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	78
Other Materials:	MEDIUM-GRAINED
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	3
Formation End Depth:	165
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931070310
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113552
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10598741
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087699
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 195
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930087698
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528635

Pump Set At:
Static Level: 10
Final Level After Pumping: 170
Recommended Pump Depth: 170
Pumping Rate: 5
Flowing Rate:
Recommended Pump Rate: 4
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934649319
Test Type: Draw Down
Test Duration: 45
Test Level: 170
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105176
Test Type: Draw Down
Test Duration: 15
Test Level: 170
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388381
Test Type: Draw Down
Test Duration: 30
Test Level: 170
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906501
Test Type: Draw Down
Test Duration: 60
Test Level: 170
Test Level UOM: ft

Water Details

Water ID: 933488423
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 145
Water Found Depth UOM: ft

Water Details

Water ID: 933488424
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 178
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2018

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Jan 31, 2019

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 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*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2019

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 - Mar 2019

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Mar 2019

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Apr 30, 2019

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Oct 2018

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Apr 30, 2019

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Apr 30, 2019

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Apr 30, 2019

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Apr 30, 2019

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2018

List of TSSA Expired Facilities: Provincial EXP

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

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Oct 2018

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Mar 31, 2019

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2017

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Jan 2019

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2017

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2018

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Feb 28, 2019

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-May 2018

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Apr 30, 2019

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: 1988-Mar 2019

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Apr 30, 2019

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2019

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jan 31, 2019

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Feb 2019

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2018

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Apr 30, 2019

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Feb 28, 2019

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix E:
Aerial Photographs

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
1931 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 7

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
1976 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 6

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
1991 AERIAL PHOTOGRAPH

PROJECT No.:	DWN:
OTT-00254187-A0	SL
SCALE:	CHKD:
AS SHOWN	CH
DATE:	FIG. No.:
JUNE 2019	5

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
2002 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 4

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
2007 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 3

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
2015 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 2

0 15 30 60 90 120 150
Metres

N

EXP Services Inc.
100-2650 Queensview Drive
Ottawa, Ontario
K2B 8H6
T - (613) - 688-1899
F - (613) - 225-7337

PROJECT TITLE:
PHASE ONE ENVIRONMENTAL
SITE ASSESSMENT
1869 Maple Grove Road
Ottawa, Ontario

DRAWING TITLE:
2017 AERIAL PHOTOGRAPH

PROJECT No.: OTT-00254187-A0	DWN: SL
SCALE: AS SHOWN	CHKD: CH
DATE: JUNE 2019	FIG. No.: 1

Appendix F:
Site Photographs

Photograph No. 1

Overview of Phase One Property, looking northwest

Photograph No. 2

Overview of Phase One Property, looking southeast

Photograph No. 3

Nearby Hydro Ottawa transformer sub-station to the southeast

Photograph No. 4

View of on site domestic water well head

Photograph No. 5

One of two sump its in the basement

Photograph No. 6

Second sump pit in basement

Photograph No. 7

Natural gas fired furnace in basement

Photograph No. 8

Air conditioner chiller unit

Photograph No. 9

Close-up of the sump pump discharge point

Photograph No. 10

Electric wheel chair lift attached to the front porch