consulting engineers
a division of Englobe

Phase One Environmental Site Assessment

2095 Dilworth Road

Kars, Ontario

Prepared for:

Dilworth Development Inc.
92 Bentley Avenue
Ottawa, ON K2E 6T9

April 2021

DST File No.: 02101208.000

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Executive Summary

DST, a division of Englobe (DST) was retained by Dilworth Development Inc. (herein referred to as the "Client") to conduct a Phase One Environmental Site Assessment (Phase One ESA) for the property parcel located at 2095 Dilworth Road (also referred to as 2097, and 2099 Dilworth Road) in Kars, Ontario (herein referred to as the "Site" or "the Phase One property"). Refer to Figures 1 and 2 in Appendix A for Site Location Map and Study Area and Potentially Contaminating Activities (PCAs), respectively.

The purpose of this Phase One ESA was to evaluate actual and potential environmental concerns on the Site and to assess the potential for the Site to be impacted by the current and/or historical uses of the Site and the surrounding properties. DST has completed this Phase One ESA in accordance with *Ontario Regulation 153/04 Records of Site Condition – Part XV.1 of the Act* under the *Ontario Environmental Protection Act, R.S.O. 1990, chapter E.19* (O. Reg. 153/04), as amended. DST understands that this Phase One ESA report will be used as supporting documentation for a City of Ottawa Site Plan Control application. It is not intended to be utilized as supporting documentation for the filing of a Record of Site Condition for the Phase One Property in accordance with O. Reg. 153/04 (as amended).

The scope of the Phase One ESA did not include sampling and analysis of materials. Information regarding the Phase One Study Area (area within 250 m of Phase One Property boundaries) was compiled through a records review, site reconnaissance and interviews of personnel knowledgeable about the Phase One Property.

Federal, provincial and private agencies and other databases were searched during the records review for indicators of potential environmental concerns with regards to the Phase One Property.

The Site consist of an irregular-shaped parcel of land that has a total area of approximately 87 acres (35 hectares). The Site is currently developed with the following structures:

- One-storey commercial snowmobile storage and service garage (approximately 625 m^2 building footprint);
- Two-storey residential dwelling (approximately 160 m^2 building footprint);
- One-storey residential trailer home (approximately 85 m^2 building footprint); and
- Two small storage sheds (approximately 30 m^2 total building footprints).

The Site buildings are currently active and used for commercial and residential purposes.

The Phase One Property is surrounded by the following:

- North: Vacant wooded area, followed by residential dwellings;
- East: Residential dwellings, followed by Third Line Road;
- South: Dilworth Road, followed by vacant wooded area and residential dwellings;
- West: Veterans Memorial Highway (HWY 416), followed by vacant wooded area and agricultural fields.

The Site reconnaissance was conducted on February 11, 2021 and included observations of the Phase One Property and observations of adjoining properties from publicly accessible vantage points.

Based on DST's Site reconnaissance, interview and environmental records review, the following potentially contaminating activities (PCAs) that resulted in areas of potential environmental concern (APECs) on Site were identified:

Areas of Potential Environmental Concern

APEC	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (on Site or off Site)	Contaminants of Potential Environmental Concern	Media Potentially Impacted
APEC 1 Fill material of unknown quality likely present on Site	Developed portion of the property	Item #30 – Importation of Fill Material of Unknown Quality	On Site	- Metals - Polycyclic aromatic hydrocarbons (PAHs)	Soil
APEC 2 Existing commercial garage	Within the area of the on-Site garage	Item #52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	On Site	- Petroleum hydrocarbons - Volatile organic compounds (VOCs)	Soil and groundwater

Based on the APECs identified above, further investigation in the form of a Phase Two ESA would be required to assess the environmental quality of soils and groundwater at the identified APECs.

Additionally, it is recommended that a designated substance and hazardous materials assessment (DSHMA) be conducted at the Phase One property prior to any renovation or demolition of the on-Site structures.

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1 Introduction

1.1 General

DST, a division of Englobe (DST) was retained by Dilworth Development Inc. (herein referred to as the "Client") to conduct a Phase One Environmental Site Assessment (Phase One ESA) for the property parcel located at 2095 Dilworth Road in Kars, Ontario (herein referred to as the "Site" or "the Phase One property"). Refer to Figures 1 and 2 in Appendix A for Site Location Map and Study Area and Potentially Contaminating Activities, respectively.

The purpose of this Phase One ESA was to evaluate actual and potential environmental concerns on the Site and to assess the potential for the Site to be impacted by the current and/or historical uses of the Site and the surrounding properties. DST has completed this Phase One ESA in accordance with *Ontario Regulation 153/04 Records of Site Condition – Part XV.1 of the Act* under the *Ontario Environmental Protection Act, R.S.O. 1990, chapter E.19* (O. Reg. 153/04), as amended. DST understands that this Phase One ESA report will be used as supporting documentation for a City of Ottawa Site Plan Control application. It is not intended to be utilized as supporting documentation for the filing of a Record of Site Condition for the Phase One Property in accordance with O. Reg. 153/04 (as amended).

The scope of the Phase One ESA did not include sampling and analysis of materials. Information regarding the Phase One Study Area (area within 250 m of Phase One Property boundaries) was compiled through a records review, site reconnaissance and interviews of personnel knowledgeable about the Phase One Property.

This report was prepared for the exclusive use of Dilworth Development Inc. Any use of this report by any third party, or any reliance on or decisions to be made based on it, are the responsibility of such parties. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Full Report Limitations are presented in Section 8 of this report.

1.2 Phase One Property Information

The Phase One Property is located at 2095 Dilworth Road in Kars, Ontario. The property is zoned as RU – Rural Countryside Zone.

The legal description of the Phase One Property is:

- Lot 35, Concession 3 (Ottawa Front), Rideau-Goulbourn Ward, City of Ottawa, Civic Addresses of 2095, 2097, and 2099 Dilworth Road.

The Site consist of an irregular-shaped parcel of land that has a total area of approximately 87 acres (35 hectares). The Site is currently developed with the following structures:

- One-storey commercial snowmobile storage and service garage (approximately 625 m^2 building footprint);
- Two-storey residential dwelling (approximately 160 m^2 building footprint);
- One-storey residential trailer home (approximately 85 m^2 building footprint); and

- Two small storage sheds (approximately 30 m^2 total building footprints).

The Site buildings are currently active and used for commercial and residential purposes.

The Phase One Property is surrounded by the following:

- North: Vacant wooded area, followed by residential dwellings;
- East: Residential dwellings, followed by Third Line Road;
- South: Dilworth Road, followed by vacant wooded area and residential dwellings;
- West: Veterans Memorial Highway (HWY 416), followed by vacant wooded area and agricultural fields.

1.3 Phase One Property Contact Information

The Phase One Property is owned by Dilworth Development Inc. The contact information for the property owner's representative is as follows:

- Mr. Walter Griesseier of Dilworth Development Inc.
  - Telephone: (613) 223-4900
  - E-mail: walterg@louconmetal.com
  - Business Address: 92 Bentley Avenue, Ottawa, ON, K2E 6T9

2 Scope of Work

DST's scope of work was to perform a Phase One ESA, which involved completing the following:

- A records review;
- A Phase One Study Area reconnaissance;
- An interview of a knowledgeable Phase One Property representative;
- An evaluation of the information gathered from the records review and Phase One Study Area visit;
- The preparation and submission of a written report; and
- The preparation of supporting documents including:
  - Figures (Appendix A);
  - Phase One Study Area photographs (Appendix B);
  - Aerial photographs (Appendix C); and
  - Phase One Study Area records and requests for information (Appendix D).

3 Records Review

3.1 General

Requests for information were submitted to the City of Ottawa, the Ontario Ministry of Natural Resources and Forestry (OMNRF), the Technical Standards and Safety Authority (TSSA), the Ontario Ministry of the Environment, Conservation and Parks Freedom of Information (MECP-FOI) and Environment and Climate Change Canada (ECCC). The agencies contacted, information requested, and responses received are summarized in the following sub-sections and included in Appendix D.

Note that at the time of issuance of this report, responses have not been received from the City of Ottawa or the MECP. A copy of the response will be sent to the Client upon receipt. If the search results affect the conclusions of this report, an addendum to the report will be issued along with the response.

3.1.1 Phase One Study Area Determination

The Phase One Study Area (see Figure 2 in Appendix A) encompasses the Phase One Property and all properties wholly and partly located within 250 metres of the Phase One Property boundaries. There are no nearby land uses that would require the extension of the Phase One Study Area beyond a 250 m radius.

3.1.2 First Developed Use Determination

Based on the available city directories, aerial photographs and interview information, the Site was first used for residential purposes prior to 1936. The Site appeared to be developed with the Site buildings in their present configuration in the 1976 aerial photograph. Prior to that time, the Site appeared to be developed with a rural residential dwelling and used for agricultural purposes, based upon review of the 1936 and 1959 aerial photographs.

3.1.3 Fire Insurance Plans

No Fire Insurance Plans for the Phase One Property were available for review.

3.1.4 Chain of Title

Based on the available city directories, aerial photographs and interview information, the Site was first used for residential purposes prior to 1936 and was subsequently used for mixed residential/commercial/agricultural purposes from approximately the 1970s to present time. Review of these records satisfies the objectives of the chain of title search. A title search for the property back to the date of ownership by the Crown would not contribute to obtaining additional information about the environmental condition of the Phase One property.

3.1.5 Environmental Reports

No historical environmental reports were available for DST to review at the time of this Phase One ESA.

3.2 Environmental Source Information

3.2.1 Provincial, Federal and Private Database Report

Environmental Risk Information Services (ERIS) was retained by DST to complete a search of federal, provincial and private databases for environmental information regarding the Site and properties within 250 m of the Site. The databases contain information pertaining to polychlorinated biphenyl (PCB) equipment storage sites and PCB waste disposal sites, waste generator registries, reported accidental spills, AST/UST inventories of private/retail fuel outlets, manufacturers, waste disposal sites, coal gasification plant sites, manufacturers and vendors of registered pesticides, water wells and other information of potential environmental importance. The full ERIS database report is provided in Appendix D, including a description of all of the databases searched. The ERIS database search found seven (7) records for the Phase One Property and thirty-seven (37) records for properties within 250 m of the Phase One Property.

3.2.1.1 Phase One Property Records

Five (5) records were found within the Phase One Property for the period from 1972 to present.

- Five (5) records were found for the Phase One Property under the Water Well Information System (WWIS) database. The wells were constructed on between 1972 and 2003. Well construction details are provided in the ERIS database report included in Appendix D.

3.2.1.1.1 On-Site Potentially Contaminating Activities

No Potentially Contaminating Activities (PCAs) were identified on the Phase One Property based on the records included in the ERIS database report.

3.2.1.2 Phase One Study Area Records

Thirty-seven (37) records were found for properties within the Phase One Study Area:

- Eight (8) records of historical boreholes completed between August 1970 and October 1990. Borehole details are provided in the ERIS database report provided in Appendix D;
- Fourteen (14) records were found for the Phase One Property under the Water Well Information System (WWIS) database. The wells were constructed between December 1971 and June 2007. Well construction details are provided in the ERIS database report provided in Appendix D.
- Two (2) records of licensed operators and/or vendors of registered pesticides. Both licenses are under the Rideau Valley Conservation Authority (RVCA) for 2022 Dilworth Road, located approximately 170 m southeast of the Phase One Property. Records show the licenses were approved in February and December 2019, respectively, and are listed

as active. Based on the distance from the Site, the registered pesticides at 2022 Dilworth Road does not present an environmental concern to the Phase One Property.

- Twelve (12) records were found for the Phase One Study Area under the Ontario Regulation 347 Waste Generators Summary category. All records were for the Rideau Valley Conservation Authority for the area identified as Lot 36 of concession 2. No further details regarding the exact address of the generator is available, however DST suspects these records are associated with the Rideau Valley Conservation Authority Workshop located at 2022 Dilworth Road, approximately 170 m southeast of the Phase One Property. The generated waste is described as petroleum distillates, waste oils and lubricants, aromatic solvents, and oil skimmings and sludges. Based on the distance from the Site, the registered waste generator at 2022 Dilworth Road does not present an environmental concern to the Phase One Property.

3.2.1.2.1 Off-Site Potentially Contaminating Activities

In accordance with the definitions within O. Reg. 153/04 (as amended) Schedule D (Table 2, Phase One ESAs) and through review of the database record, DST noted the PCAs summarized in the table below within the Phase One Study Area, as shown on Figure 2 in Appendix A and described in detail in Section 6.2.2.

Name/Location	Approximate Distance from the Site	Details
2022 Dilworth Road	170 m southeast of the Site	PCA Item # 8 – Chemical Manufacturing, Processing and Bulk Storage PCA Item # 40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

3.2.2 City of Ottawa

DST submitted a request to the City of Ottawa for Historical Land Use Inventory (HLUI) information for the Site. A response was not received as of the issuance date of this report. A copy of the response will be sent to the Client upon receipt. If the search results affect the conclusions of this report, an addendum to the report will be issued along with the response.

3.2.3 Environment and Climate Change Canada (ECCC)

DST submitted a request to ECCC under the *Access to Information Act*, to provide available information related to environmental concerns (general correspondence, occurrence reports, abatement), orders, tanks (ASTs/USTs), spills, investigations/prosecutions (with owner/tenant

information), and waste generator number/classes. The response from ECCC noted that no records were found for the Site. A copy of the ECCC's response is included in Appendix D.

3.2.4 Ministry of the Environment, Conservation and Parks – Freedom of Information (MECP-FOI)

The MECP-FOI office was contacted for information on the Site, such as past or existing environmental permits, existing environmental orders, fuel storage tanks, or any other environmentally related information. A response was not received as of the issuance date of this report. A copy of the response will be sent to the Client upon receipt. If the search results affect the conclusions of this report, an addendum to the report will be issued along with the response.

3.2.5 Ontario Ministry of Natural Resources and Forestry (OMNRF)

Based on The Ministry of Natural Resources and Forestry (MNRF) website, a search was conducted for the Site and surrounding properties in the Phase One Study Area. Such information typically includes rare, threatened or endangered species, environmentally sensitive sites, and Area of Natural and Scientific Interest (ANSI), or any other related information of environmental interest. A review of the website reveals that the eastern portion of the property is a wetland, and there are also woodlands on the site. The presence of the midland painted turtle (special concern), Bobolink (Threatened), snapping turtle (special concern), and Butternet tree (endangered) was noted for the Site. The Site was also noted to contain portions of the Reevercraig swamp forest and the Cranberry Creek.

3.2.6 Technical Standards and Safety Authority (TSSA)

The Technical Standards and Safety Authority (TSSA) Fuel Handling Division is responsible for records regarding the licensing of fuel handling facilities in Ontario. The TSSA was contacted for any information with respect to environmental concerns, which could include past or existing environmental spills, information on fuel tanks, or any other related environmental information at the Site. A response was received from the TSSA on February 24, 2021 indicating that there are no records for the Site. A copy of the TSSA's response is included in Appendix D.

3.2.7 City Directory Reviews

No City Directory records are available for the Phase One Study Area.

3.3 Physical Setting Sources

Aerial photographs and soil, bedrock geology, and topography maps were reviewed for information pertaining to the physical setting of the Site. The results for each record reviewed are discussed below.

3.3.1 Aerial Photographs

Aerial photographs can provide an indication of historical land uses with respect to the Site and surrounding properties. Eleven aerial photographs, for the years of 1936, 1959, 1976, 1991, 2002,

2005, 2008, 2011, 2014, 2017 and 2019 were reviewed by DST. The subject aerial photographs are included in Appendix C.

The following table highlights the observed features of the Site and Phase One Study Area in each aerial photograph.

Aerial Photographs Observations

Aerial Photograph Year	Site Observations	Surrounding Properties Observations
1936	• The Site appears to be developed with a residential dwelling and multiple small buildings, suspected to be sheds.	• **North of the Site**: Undeveloped • **East of the Site:** Primarily undeveloped, with the exception of what appears to be rural residential dwellings along Third Line Road and Dilworth Road. • **South of the Site:** Dilworth road, followed by undeveloped land. • **West of the Site:** Undeveloped.
1959	• The Site appears to be developed with a residential dwelling and a second structure, suspected to be a barn, as the northern portion of the property appears to be used for agricultural purposes	• Unchanged from the 1936 aerial photograph
1976	• The Site appears to be used for agricultural purposes in certain sections of the property. • The Site is developed with a single residential dwelling and a larger structure, suspected to be a barn. • The remainder of the property appears to be undeveloped.	• **North of the Site**: Primarily undeveloped, with the exception of what appears to be several rural residential dwellings along Third Line Road. • **East of the Site:** Primarily undeveloped, with the exception of what appears to be rural residential dwellings along Third Line Road and Dilworth road. • **South of the Site:** Primarily undeveloped, with exception of Dilworth road and a single rural residential dwelling on Reevercraig Road. • **West of the Site:** Undeveloped.
1991	• The barn has been expanded (suspected now to be used as a garage), and a trailer home has been constructed to the west of the residence. • Multiple sea cans have been placed in various areas of the property. • Buildings appear to be in the same configuration as present. • Surface clearing in the area to the east of the barn is visible. • The site no longer appears to be used for agricultural purposes.	• **North of the Site:** Unchanged from 1976 aerial photograph. • **East of the Site:** Several new residential dwellings have been constructed along Dilworth road, east of Third Line Road. • **South of the Site:** Unchanged from 1976 aerial photograph. • **West of the Site:** The Veterans Memorial Highway (HWY 416) has been constructed.

Aerial Photograph Year	Site Observations	Surrounding Properties Observations
2002	• Surface clearing in an area to the west of the structures appears is visible. • A suspected small stockpile of unknown material is present to the northwest of the garage. • Clearing of the area to the east of the structures has also expanded. • A small pond is now present to the northeast of the garage. • An area to the west and northwest of the buildings appears to be possibly used for agricultural purposes.	• **North of the Site:** Similar to 1991 aerial photograph • **East of the Site:** Similar to 1991 aerial photograph • **South of the Site:** Several residential dwellings have been constructed along Reevercraig Road. • **West of the Site:** A new interchange has been constructed for the HWY 416, which appears to be in its present-day configuration.
2005	• A small area to the west of the structures no longer appears to be used for agricultural purposes.	• **North of the Site:** Similar to 2002 aerial photograph • **East of the Site:** Several residential dwellings have been constructed along Third Line Road, south of Dilworth road. • **South of the Site:** Similar to the 2002 aerial photograph. • **West of the Site:** Similar to the 2002 aerial photograph.
2008 and 2011	• Similar to 2005 aerial photograph.	• **North of the Site:** Similar to the 2005 aerial photograph. • **East of the Site**: Similar to the 2005 aerial photograph. • **South of the Site:** Similar to the 2005 aerial photograph. • **West of the Site:** Similar to the 2005 aerial photograph.
2014, 2017 and 2019	• The central portion of the Site, to the west of the structures, appears to be used for agricultural purposes.	• **North of the Site:** Similar to the 2011 aerial photograph. • **East of the Site**: Similar to the 2011 aerial photograph. • **South of the Site:** Similar to the 2011 aerial photograph. • **West of the Site:** Similar to the 2011 aerial photograph.

Based on a review of the aerial photographs, activities related to the construction of the on-Site building, including possible importation of fill of unknown quality, poses a potential environmental concern to the Site.

3.3.2 Geology, Topography, and Hydrogeology

DST reviewed available maps to determine physical setting features of the Site and surrounding properties, including local geology, topography, hydrogeology and locations of nearby watercourses. DST also performed a Geotechnical Investigation at the Site at the time of this Phase One ESA. The findings of the investigation were also reviewed.

3.3.2.1 Geology

3.3.2.1.1 Surficial Geology

The Site is expected to consist of primarily coarse-textured glaciomarine deposits consisting of sand, gravel, minor silt and clay. The Site is also expected to have pockets of till consisting of sandy silt to silty sand. In the northern, western, and south portion of the Phase One Study Area, the surficial geology is expected to be similar to the Site. In the eastern portion of the Phase One Study Area, the surficial geology is expected to consist of organic deposits consisting of peat, muck, and marl (Ontario Geological Survey Earth Surficial Geology of Southern Ontario – Ministry of Northern Development and Mines, 2010).

3.3.2.1.2 Bedrock Geology

The bedrock geology in the area of the Site is expected to consist of dolostone, shale, and sandstone of the Oxford formation of the Beekmantown Group (Ontario Geological Survey Bedrock Geology of Ontario – Ministry of Northern Development and Mines, 2011).

3.3.2.2 Topography

The topography of the Site was analyzed using maps and information provided by Ontario Base Maps ordered through ERIS. The Ontario Base Map shows the ground surface elevation for the Site ranging between 89 and 90 metres above mean sea level (amsl). The regional topography appears to slope downwards from north to south towards the Rideau River.

3.3.2.3 Hydrogeology – Water Bodies and Areas of Natural Significance

There is a small unnamed creek within the property approximately 130 m east of the on-Site buildings oriented in the north-south direction. The closest major surface water body to the Site is the Rideau River, located approximately 700 m southeast of the Site.

The area to the southeast of the Phase One property, described as 2022 Dilworth Road, is considered an Area of Natural and Scientific Interest (ANSI). The area is approximately 230 m southeast of the Phase One Property. The eastern portion and pockets in the central area of the Phase One Property, as well as the properties immediately adjacent to the north, east and south are considered as wetlands. (Ministry of Natural Resources, 2021).

3.3.3 Fill Materials

The presence of structures on Site indicates the potential presence of fill material of an unknown quality in the developed portions of the Phase One Property.

3.3.4 Well Records

An online search of MECP well records was completed by DST, as well as the database search completed by ERIS for WWIS records. Seven (7) well records were identified on the Site, and twenty-eight (28) well records were identified within the Phase One Study Area.

The purpose for the well records on the Site were listed as for domestic water supply.

The stratigraphy identified in a well record for a monitoring well located at the western perimeter of the Site (Well ID No. 1526608 installed October 1992) was listed as follows:

- Grey hardpan from ground surface to 25.3 m below ground surface (bgs)
- Grey limestone bedrock from 25.3 m bgs to the end of hole at 31.4 m bgs
- Static water level was recorded at 9.1 m bgs.

The stratigraphy identified in a well record for a monitoring well located at the eastern perimeter of the Site (Well ID No. 1513307 installed June 1973) was listed as follows:

- Brown sand from ground surface to 4.6 m bgs
- Brown clay from 4.6 m bgs to 6.1 m bgs
- Gravel from 6.1 m bgs to 7.5 m bgs
- Limestone bedrock from 7.5 m bgs to end of hole at 22.3 m bgs
- Static water level was recorded at 3.0 m bgs

Details of all MECP well records are provided in the ERIS database report provided in Appendix D.

3.3.5 Site Operating Records

No operating records for the Site were available for review.

4 Interviews

Interviews of public and government agencies regarding specific details of properties are handled through FOI requests due to privacy legislation. The details of these information requests are provided in Sections 3.2.2 through 3.2.6.

DST conducted an in-person interview during the Site reconnaissance on February 11, 2021 with Mr. Ron Cureston, the previous owner of the Phase One Property. It should be noted that Mr. Cureston has reportedly been associated with the Site for over 30 years. The information provided to DST during the interview is incorporated into the appropriate Site reconnaissance sections of the report.

5 Site Reconnaissance

5.1 General Requirements

The findings documented in this section are based on observations made by the Phase One Property assessor, Mr. Zaeem Khalid, of DST, at the time of the Site reconnaissance, which took place on February 11, 2021. Weather conditions at the time of the Site reconnaissance were sunny with a temperature of approximately -15°C.

Select photographs taken during the Site reconnaissance are included in Appendix B.

5.2 Specific Observations at the Phase One Property

5.2.1 Description of Structures and Other Improvements

The Site is located at the municipal address of 2095 Dilworth Road and is developed with five structures: A two-storey residential dwelling; a residential trailer home; a one-storey commercial garage (formerly a barn); and two small storage sheds.

Based on the records review (see Section 3 of this report), and interview with the previous Site owner, Mr. Ron Cureston, the residential dwelling and barn were constructed prior to the 1920s. The trailer home was constructed in 1976. The construction date of the two storage sheds is unknown, but their construction was completed prior to 1976.

The two-storey residential dwelling is of vinyl siding, steel roof, and concrete block foundation construction, with an approximate footprint area of 160 m^2. The building has one underground basement level.

The one-storey commercial garage is of slab-on-grade, steel siding, and steel roof construction, with an approximate footprint area of 625 m^2. The foundation construction type could not be seen at the time of the Site reconnaissance.

The trailer home is of slab-on-grade, steel siding, and steel roof construction with an approximate footprint area of 85 m^2.

The two small sheds are of wood construction with steel roofs. Each shed has an approximate footprint area of 15 m^2.

Besides the Site buildings, the Site includes a gravel parking area and driveway with access from Dilworth road. The remainder of the Site was snow covered at the time of the Site reconnaissance but appeared to be undeveloped.

5.2.2 Description of Below-Ground Structures

The on-Site residential dwelling has one underground basement level comprised of concrete block wall, concrete slab floor and wood truss construction.

5.2.3 Details of Tanks

An aboveground storage tank (AST) containing heating oil was observed in the basement of the two-storey residence at the time of the Site reconnaissance. DST was informed by Mr. Cureston that a previous oil tank was installed in 2004 and removed and replaced with the existing tank in January 2020. No evidence of leaks or corrosion of the existing tank was observed by DST. Also, no staining was observed in the basement of the residence.

An outdoor propane AST was also present outside the on-Site trailer home.

5.2.4 Potable and Non-Potable Water Sources

Potable water for the Phase One Property is supplied by a well located to the north of the two-storey residential dwelling.

5.2.5 Underground Utilities and Service Corridors

Potable water is supplied from the on-Site well to the residential dwelling through an underground water line. A buried water and electrical line travel from the north side of the residential dwelling to a wood-fired boiler, which then leads to the on-Site garage. The septic tank for the two-storey residence is located to the west of the dwelling. No other underground utilities or corridors were located at the Site.

5.2.6 Features of Structures and Buildings

5.2.6.1 Entry and Exit Points

There is one entrance (driveway) to the Site from Dilworth Road to the south of the Site. There are four access points into the commercial garage, three into the two-storey residence, two into the trailer home, and one into each of the small sheds.

5.2.6.2 Heating and Cooling Systems

The two-storey residential dwelling and the commercial garage are heated using an outdoor wood furnace. The residential dwelling also has an oil tank and furnace in the basement as a back-up heating system for the residence. The trailer home is heated using a propane furnace.

The two-storey residence is cooled using a window-mounted air conditioning unit observed in a second floor window on the western elevation of the dwelling. An outdoor air conditioning unit was also observed outside the western elevation of the residence.

5.2.6.3 Drains, Pits and Sumps

No floor drains, pits or sumps were observed within the garage. One sump pit was observed in the basement of the residential dwelling.

5.2.6.4 Chemical Storage

Various small containers of chemicals were observed within the commercial garage on Site associated with maintenance and repair of snowmobile and small engines (gas/diesel, oil, lubricants, etc.)

An approximately 220 kg container of Dowfrost Heat Transfer Fluid was observed beside the outdoor wood furnace.

Due to health and safety concerns related to the COVID-19 pandemic, DST did not enter any interior areas of the residential dwelling other than the basement, to observe the heating oil AST; therefore, the presence of stored chemicals within the dwelling could not be verified.

5.2.6.5 Waste Removal

Waste removal at the Site is handled by Miller Waste on a bi-weekly basis.

5.2.6.6 Stains or Corrosion

There was staining observed in various areas on the concrete floors within the garage, likely due to fluids leaking or spilling during the repair and maintenance of the snowmobiles and small engines performed in the garage. It should be noted, however, that the concrete floor slab within the garage was observed to be in good condition.

5.2.7 Wells

One potable water supply well was observed on Site during the Site reconnaissance, located to the north of the two-storey residence. The approximate location of the subject well is shown on Figure 3, in Appendix A.

5.2.8 Sewage Works

Sewage generated from the residence at the Phase One Property is managed by the on-Site septic system located to the west of the two-storey residence.

5.2.9 Ground Surface

The access driveway and parking area consists of a surface layer of gravel. The remainder of the Phase One Property was covered with snow at the time of the Site reconnaissance.

5.2.10 Railway Lines or Spurs

No railway lines were observed at the Phase One Property during the Site reconnaissance.

5.2.11 Stained Soil

No stained soil or stressed vegetation was noted during the Site reconnaissance; however, observations were limited due to the snow cover on the ground at the time of the Site reconnaissance.

5.2.12 Fill and Debris

The presence of structures on Site indicates the presence of fill material of an unknown origin in the developed portion of the Phase One Property. Also, various stockpiles of topsoil were observed to the west of the garage at the time of the Site reconnaissance.

Various snowmobiles, farm equipment, snowblowers, and a large amount of split wood piles were present in the eastern portion of the Site, to the east of the on-Site buildings.

5.2.13 Designated Substances and Special Attention Items

Eleven (11) designated substances are regulated by the Ministry of Labour (MOL) under the Occupational Health and Safety Act (OHSA) through the development of designated substance regulations that control worker exposure to designated substances. The designated substances identified in OHSA include *asbestos, vinyl chloride, arsenic, benzene, lead, coke oven emissions, ethylene oxide, acrylonitrile, mercury, isocyanates, and silica*. Guidelines have been developed for building projects such as renovations, construction, and demolition where designated substances may be disturbed.

5.2.13.1 Lead and/or Lead-Containing Paint

Lead may be present in a variety of building materials and is commonly associated with paints, solder material, pipe plumbing, ceramic tile glazing and mechanical equipment due to its ability to resist corrosion. Exposure to lead may cause lead poisoning and is considered to be a human health risk. The historic use of lead-containing paints (LCPs) is a source of exposure through ingesting peeling or flaking paints, and/or routine contact with painted surfaces containing lead. Regulations have been established that limit worker exposure to lead, and guidelines have been published with work procedures to be followed when performing work that generates airborne lead containing dust.

Due to the inferred construction date of the Site buildings, lead-based paint and other lead-based materials may have been utilized in the Site buildings. A designated substances survey (DSS) would be required to assess the presence of lead-containing materials that may be disturbed during any renovation or deconstruction activities.

5.2.13.2 Mercury

Liquid mercury is commonly associated with mechanical equipment such as thermostats, thermometers, barometers, pressure gauges, and electrical switches. A small amount of mercury is present in fluorescent light tubes and compact fluorescent light bulbs. Removal of materials suspected to contain mercury should be conducted in accordance with “The Safe Handling of Mercury: A Guide for the Construction Industry”.

Fluorescent light tubes suspected of containing mercury were observed within the garage building during the Site reconnaissance.

5.2.13.3 Asbestos Containing Materials

Asbestos is a naturally occurring fibrous mineral which has been widely used historically due to physical properties that, amongst other things, allow asbestos to withstand high temperatures. Asbestos has been used in a number of building products including, but not limited to, thermal and electrical insulation, floor and ceiling tiles, plaster and drywall joint compound.

Based on the date of construction of the Site buildings, asbestos-containing materials (ACMs) may be present in building materials within the Site buildings. A DSS would be required to assess the presence of ACMs that may be disturbed during any renovation or deconstruction activities at the Site.

5.2.13.4 Urea Formaldehyde Foam Insulation

Based on the inferred date of construction of the Site buildings, urea formaldehyde foam insulation (UFFI) may have been used. UFFI was banned in Canada in 1980. There was no apparent visual evidence of such use within the garage on Site.

Due to health and safety concerns related to the COVID-19 pandemic, DST did not enter all interior areas of the residence and, therefore, could not verify the presence of possible UFFI in the residence.

5.2.13.5 Silica

Silica is a naturally occurring mineral found in a variety of construction materials and is commonly associated with manufactured concrete products, ceramic tiles, mortar, and products in the electronics industry.

Many building materials within the Site building are expected to contain silica, such as, but not limited to, concrete foundations, block walls and tiled floors (if present).

5.2.13.6 Polychlorinated Biphenyls

In 1977, the Canadian government enacted a set of chlorobiphenyls regulations which limited the use of polychlorinated biphenyls (PCBs). As such, the only allowable use of PCBs in Canada is in electrical transformers and capacitors existing in Canada before July 1, 1980, and certain other “closed use” equipment (specifically heat transfer equipment, hydraulic equipment and vapour diffusion pumps) that were in Canada before September 1, 1977 (Hilborn and Buccini, 1998).

PCBs are also commonly found within electrical ballasts manufactured prior to 1981, within fluorescent light fixtures and high intensity discharge (HID) lamps. Light fixtures with T12 lamps are more likely to contain ballasts that were manufactured prior to 1981. T8 lamps are associated with light fixtures that were manufactured after the phase-out of PCB-containing ballasts. The letter “T” denotes the shape of the light fixture (e.g. tubular) and the number which follows indicates the diameter in eights of an inch.

There were fluorescent light tubes observed at the Phase One property at the Site at the time of the Site reconnaissance.

5.2.13.7 Ozone Depleting Substances

Canada signed the Montreal Protocol on September 16, 1987 which controlled the use of Ozone Depleting Substances (ODSs) and banned over 100 ODSs grouped into the following categories: chlorofluorocarbons (CFCs); halons; carbon tetrachloride (CTC); hydrochlorofluorocarbons (HCFC); methyl chloroform; and methyl bromide. ODSs can be found in older refrigerating and air conditioning equipment.

Refrigerators/freezers and air conditioning unit observed during the Site reconnaissance are considered potentially ODS-containing equipment.

5.2.13.8 Mould

No visual evidence of mould was present within the accessed areas of the Site buildings.

5.2.14 Unidentified Substances

No unidentified substances were observed at the Site at the time of the Site reconnaissance.

5.2.15 Potentially Contaminating Activity

In accordance with the definitions within O. Reg. 153/04 (as amended) Schedule D (Table 2, Phase One ESAs), three PCAs were identified on the Phase One Property during the Site reconnaissance:

- PCA Item #28 – *Gasoline and Associated Products Storage in Fixed Tanks* – The former heating oil storage tank in
- PCA Item #30 – *Importation of Fill Material of Unknown Quality* – Possible fill materials imported during the construction of the on-Site structures.
- PCA Item #52 – *Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems* – The on-Site garage used for storing and repair of snowmobiles, farm equipment and other small engines. There is also a hoist present in the garage.

5.3 Surrounding Properties

Properties in the Phase One Study Area were observed from publicly accessible areas.

The Phase One Property is surrounded by the following properties:

- North: Vacant wooded area, followed by residential dwellings;
- East: Residential dwellings, followed by Third Line Road;
- South: Dilworth Road, followed by vacant wooded area and residential dwellings; and
- West: Veterans Memorial Highway (HWY 416), followed by vacant wooded area and agricultural fields.

5.3.1 Potentially Contaminating Activity

During the Site reconnaissance, properties surrounding the Phase One property were observed from publicly accessible areas. No potentially contaminating activities were identified.

6 Review and Evaluation

6.1 Current and Past Uses

Based on a review of aerial photographs and information obtained during the interview, the Site was first developed with a residential dwelling and a barn, for residential and agricultural purposes, prior to the 1920s. The Site has been used for mixed residential and commercial purposes since. The on-Site garage has been used for commercial purposes (repair of snowmobiles, farm equipment and other small engines) for approximately the past 35 years.

6.2 Potentially Contaminating Activities (PCA)

6.2.1 Potentially Contaminating Activities at the Phase One Property

Based on information obtained during the records review, interview, and Site reconnaissance, the following PCAs were identified at the Site, as shown on Figure 2 in Appendix A:

Potentially Contaminating Activities at the Phase One Property

Potentially Contaminating Activity	Location on Phase One Property	Description	Contributes to APEC?
PCA 1 PCA Item No. 30 – Importation of Fill Material of Unknown Quality	Gravel parking area and area surrounding the existing structures	Based on historical aerial photos and DST observations during the Site reconnaissance, fill material of an unknown quality was placed for the gravel parking lot and as part of the construction of the existing structures on the Site.	Yes
PCA 2 PCA Item No. 52 – Storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems	Commercial Garage	Based on DST observations during the Site reconnaissance, the on-Site garage is used for the storage and repair of snowmobiles, farm equipment, and other small engines. There is also a hoist present in the garage.	Yes
PCA 3 PCA Item No. 28 – Gasoline and Associated Products Storage in Fixed Tanks	Two-Storey residential dwelling	Based on DST observations during the Site reconnaissance, a former heating oil storage tank was present within the residential dwelling. There are no reported spills or leaks associated with the tank. No staining was observed on the ground surface around the tank location.	No

6.2.2 Potentially Contaminating Activities in the Phase One Study Area

Through observation and records review of the properties surrounding the Site during the Site reconnaissance, and review of records and aerial photographs, the following PCAs were observed at other properties within the Phase One Study Area, as shown on Figure 2 in Appendix A:

Potentially Contaminating Activities within the Phase One Study Area

Potentially Contaminating Activity	Location in Phase One Study Area	Description	Contributes to APEC?
PCA 4 PCA Item #8 – Chemical Manufacturing, Processing and Bulk Storage	2022 Dilworth Road - 170 m southeast of the Site	Based on ERIS database report, the property has two records of licenses to use pesticides.	No
PCA 5 PCA Item #40 – Pesticides (including Herbicides, Fungucides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	2022 Dilworth Road - 170 m southeast of the Site	Based on the ERIS database report, the property is a registered waste generator of petroleum distillates, waste oils and lubricants, aromatic solvents, and oil skimmings and sludges.	No

Based on the distance from the Site, the registered pesticide license and waste generator at 2022 Dilworth Road does not present a potential environmental concern to the Phase One Property.

6.3 Areas of Potential Environmental Concern (APECs)

Based on the PCAs identified in Section 6.2, the following APECs were identified for the Site.

APEC	Location of APEC	Area of Potential Environmental Concern	Contaminants of Potential Concern (COPCs)	Media Potentially Impacted
APEC 1 Fill material of unknown quality likely present on Site	Developed portion of the property	PCA Item #30 – Importation of Fill Material of Unknown Quality	- Metals - Polycyclic aromatic hydrocarbons (PAHs)	Soil
APEC 2 Existing commercial garage	Within the area of the on-Site garage	PCA Item #52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	- Petroleum hydrocarbons - Volatile organic compounds (VOCs)	Soil and groundwater

6.4 Conceptual Site Model

The illustrative requirements, according to O. Reg. 153/04, of the Phase One Conceptual Site Model (CSM) are shown on Figures 2 and 3 provided in Appendix A. These figures include: the location of the existing buildings at the Site and in the Phase One Study Area; the roads, including names, within the Phase One Study Area; uses of properties adjacent to the Site; and, the location of potentially contaminating activities (PCAs) within the Phase One Study Area and areas of potential environmental concern (APECs) at the Site. The locations of the on-Site and off-Site water bodies and the drinking water well at the Site are also depicted on the figures.

The PCAs and evaluation of any APECs are discussed in Sections 6.2 and 6.3.

The topography of the Site was analyzed using maps and information provided by Ontario Base Maps ordered through ERIS. The Ontario Base Map shows the ground surface elevation for the Site ranging between 89 and 90 metres amsl. The regional topography appears to slope downwards from north to south, towards the Rideau River. Based on visual observations during the Site visit, the Site and surrounding areas are generally flat, with a gentle slope downwards towards the south and east.

There is a small unnamed creek within the Phase One property, located approximately 130 m east of the on-Site buildings and oriented in the north-south direction. The closest major surface water body to the Site is the Rideau River, located approximately 700 m southeast of the Site. Based on the regional topography, location of the nearest major water body, and historical well records at the Site, the inferred direction of the regional shallow horizontal groundwater flow is to the southeast. Depending on climate conditions and the amount of surface water available, ditching, underground services, and ground surface may affect the shallow groundwater flow on a local level.

Underground utilities at the Site generally consist of a potable water line supplied from the on-Site well to the residential dwelling through an underground water line. A buried water line and electrical line travel from the north side of the residential dwelling to a wood-fired boiler, which then leads to the on-Site garage. The septic tank for the two-storey residence is located to the west of the dwelling; however, the exact location of the septic bed is unknown. No other underground utilities or corridors were located at the Site.

It is not anticipated that underground utilities are present near the groundwater table and, therefore, it is unlikely that underground utilities will affect contaminant distribution and transport.

The geological maps reviewed indicate that the Phase One Study Area is underlain by dolostone, shale, and sandstone of the Oxford Formation of the Beekmantown Group (OGS, 2011). The surficial geology mapped according the Ontario Geological Survey (OGS) Earth Surficial Geology of Southern Ontario (OGS, 2010) indicates that the Site, and northern, western and southern portions of the Phase One Study Area consists of coarse-textured glaciomarine deposits consisting of sand, gravel, and minor silt and clay with pockets of till consisting of sandy silt and silty sand. The eastern portion of the Phase One Study Area is expected to consist of an organic deposit consisting of peat, muck, and marl.

DST performed a Geotechnical Investigation at the Site at the time of this report (DST Report Ref. No. 02101208.000, dated April 2021). From the review of the findings of the investigation, the overburden at the Site generally consists of a native silty sand deposit transitioning to a silty clay in some areas. A deposit of sand and gravel (till) was encountered overlying the bedrock. Bedrock in the central portion of the Site was confirmed as Limestone bedrock.

No significant issues relating to uncertainty or absence of information were encountered during the completion of the Phase One ESA and, therefore, it is not anticipated that uncertainty or absence of information will affect the validity of this Phase One CSM.

7 Conclusions & Recommendations

An evaluation of actual and potential contamination on Site was completed during this Phase One ESA. The information evaluated to identify PCAs and to determine APECs on the Site included record searches, a Site reconnaissance, and an interview with a person knowledgeable about the Site.

Based on the findings of the Phase One ESA, the following APECs were identified at the Site:

Areas of Potential Environmental Concern

APEC	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (on Site or off Site)	Contaminants of Potential Environmental Concern	Media Potentially Impacted
APEC 1 Fill material of unknown quality likely present on Site	Developed portion of the property	Item #30 – Importation of Fill Material of Unknown Quality	On Site	- Metals - PAHs	Soil
APEC 2 Existing commercial garage	Within the area of the on-Site garage	Item #52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	On Site	- Petroleum hydrocarbons - VOCs	Soil and groundwater

7.1 Requirement for Further Investigation

Based on the APECs identified above, further investigation in the form of a Phase Two ESA would be required to assess the environmental quality of soils and groundwater at the identified APECs.

7.2 Additional Recommendations

It is recommended that a designated substance and hazardous materials assessment (DSHMA) be conducted at the Phase One property prior to any renovation or demolition of the on-Site structures.

8 Limitations of Liability and Third Party Reliance

DST, a division of Englobe (DST) has prepared this report for the exclusive use of Dilworth Development Inc. (the "Client"). The information, conclusions and recommendations given herein are specific for this project and this Client only, for the scope of work described herein. DST will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of DST. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of potential environmental concern, reflecting DST's best judgment using information reasonably available at the time of DST's Site reconnaissance. The assessment was partly based on information from various sources of which the accuracy has not been verified, and because observations made during the Site reconnaissance may have been limited by existing conditions, this report does not guarantee that the subject property is free of hazardous or potentially hazardous material or conditions, or that latent or undiscovered conditions will not become evident in the future. DST has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to DST at the time of the Site reconnaissance and assessment.

The conclusions regarding environmental conditions, which are presented in this report, are based on a scope of work authorized by the Client. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground. This report, therefore, cannot warrant that all conditions on or off the subject property have been identified within this assessment.

Since onsite and surrounding activities are beyond DST's control, and can change at any time after the completion of this assessment, the observations, findings, and opinions can be considered valid only as of the date provided on this report.

Conclusions and recommendations contained in this assessment were developed in accordance with currently accepted engineering standards and practices. Standards, guidelines and practices related to environmental investigations may change over time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.

9 Closure

DST confirms that the carrying out of the Phase One ESA Update has been supervised by Salim Eid, who is a Qualified Person (QP) as defined by O. Reg. 153/04 (as amended), and further confirms the findings and conclusions of this report.

We trust that the above meets your present requirements; should you have any questions or concerns regarding this report, please feel free to contact the undersigned at your convenience.

Sincerely,

For DST, a division of Englobe

Salim Eid, P.Eng.
Team Lead

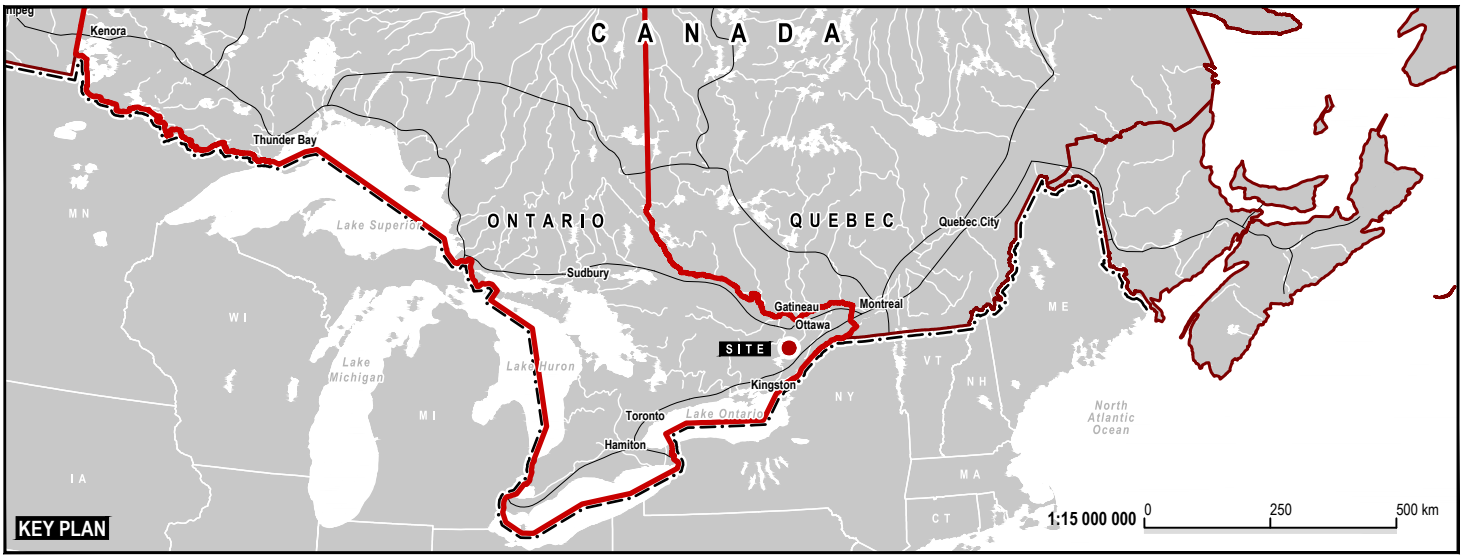
10 References

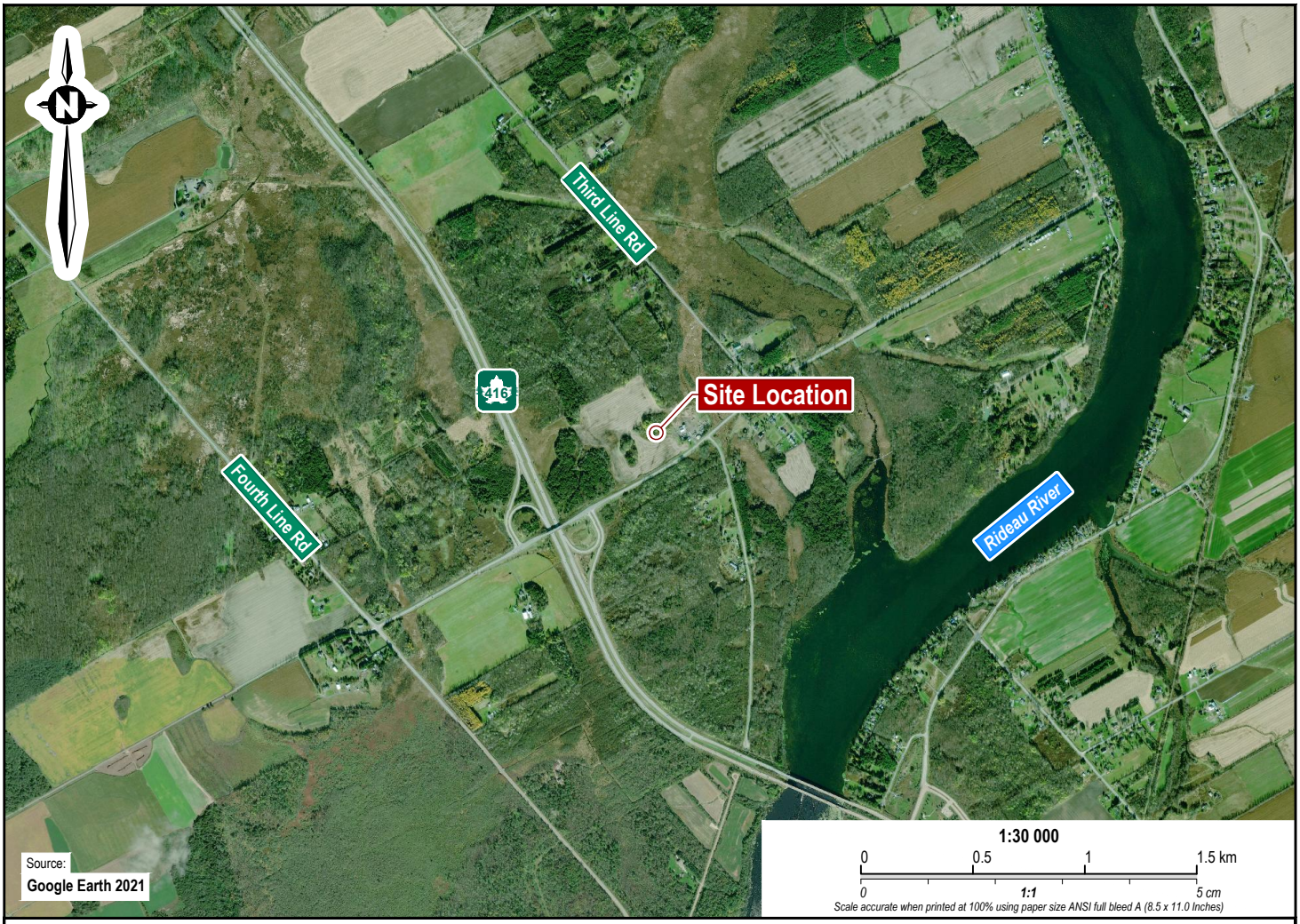
Land Information Ontario, 2021. *Ontario GeoHub*. Available from: https://geohub.lio.gov.on.ca/ [Accessed February 2021].

Ontario Ministry of Northern Development and Mines, 2011. Ontario Geological Survey (OGS) Bedrock Geology of Ontario. Google Earth files available for download from: https://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth [Accessed February 2021].

Ontario Ministry of Northern Development and Mines, 2010. OGS Surficial Geology of Southern Ontario. Google Earth files available for download from: https://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth [Accessed February 2021].

APPENDIX A
Figures





Note

1. This drawing shall be read in conjunction with the associated technical report.

Revision	Date	Issue	Approval
0	2021/04/06	Original	S.V.

Client: Dilworth Development Inc.	Site: 2095 Dilworth Road in Kars, ON		
DST consulting engineers a division of Englobe	Report Title: Phase One Environmental Site Assessment	Designed By: R.V.	Date: April 2021
		Drawn By: J.M.	Project No.: 02101208
	Drawing Title: Site Location Map	Approved By: S.V.	Figure No.: 1
		Scale: As shown	

2150 Thurston Drive, Suite 203, Ottawa, Ontario K1G 5T9 Tel: (613) 748-1415 Fax: (613) 748-1356 Website: www.dstgroup.com

PCA	Description
1	Importation of fill material of unknown quality
2	Storage, maintenance, fueling, and repair of equipment, vehicles, and material used to maintain transportation systems
3	Gasoline and associated products storage in fixed tanks
4	Chemical manufacturing, processing, and bulk storage
5	Pesticides (including herbicides, fungucides, and anti-fouling agents) manufacturing, processing, bulk storage, and large-scale applications

DST consulting engineers
a division of Englobe

Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Approximate Site Boundary
- Phase One Study Area - 250 m Buffer

1:5 000

0 50 100 150 200 250 m

0 1:1 5 cm

Scale accurate when printed at 100% using paper size ANSI full bleed B (11.0 x 17.0 Inches)

Revision	Date	Issue	Approval
0	2021/04/06	Original	S.V.

Client
Dilworth Development Inc.

Site
2095 Dilworth Road in Kars, ON

Report Title
Phase One Environmental Site Assessment

Drawing Title
Study Area and Potentially Contaminating Activities (PCAs)

Designed By	Scale
R.V.	As shown
Drawn By	**Date**
J.M.	April 2021
Approved By	**Project No.**
S.V.	02101208

Figure No. 2

Drawing: 2 Study Area.dwg Folder: C:\Users\jmendoza\Documents\Work From Home 03.24.2020\02101208 Dilworth Rd\2021 Phase I Site Assessment\DWGs Wednesday, March 03, 2021 @ 16:51 by Joven Mendoza

885 Regent Street, Suite 2-1B, Sudbury, Ontario P3E 5M4 Tel: (705) 523-6680 Fax: (705) 523-6690 Website: www.dstgroup.com

APEC	Description
1	Importation of fill material of unknown quality
2	Storage, maintenance, fueling, and repair of equipment, vehicles, and material used to maintain transportation systems

DST consulting engineers
a division of Englobe

Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Approximate Site Boundary
- Phase One Study Area - 250 m Buffer
- Area of Potential Environmental Concern (APECs)

1:3 500

0 50 100 150 200

0 1:1 5 cm

Scale accurate when printed at 100% using paper size ANSI full bleed B (11.0 x 17.0 Inches)

Revision	Date	Issue	Approval
0	2021/04/06	Original	S.V.

Client
Dilworth Development Inc.

Site
2095 Dilworth Road in Kars, ON

Report Title
Phase One Environmental Site Assessment

Drawing Title
Areas of Potential Environmental Concern (APECs)

Designed By	Scale
R.V.	As shown
Drawn By	**Date**
J.M.	April 2021
Approved By	**Project No.**
S.V.	02101208

Figure No.
3

Drawing: 3 APEC.dwg Folder: C:\Users\jmendoza\Documents\Work From Home 03.24.2020\02101208 Dilworth Rd\2021 Phase I Site Assessment\DWGs Wednesday, March 03, 2021 @ 16:51 by Joven Mendoza

885 Regent Street, Suite 2-1B, Sudbury, Ontario P3E 5M4 Tel: (705) 523-6680 Fax: (705) 523-6690 Website: www.dstgroup.com

APPENDIX B

Site Photographs

All Site Photographs were taken on February 11, 2021.

Photograph 1: South entrance facing North.

Photograph 2: South of garage facing Dilworth Road to the south.

Photograph 3: South of garage facing west.

Photograph 4: South of garage facing southwest

Photograph 5: Snowblowers stored outside, east of garage.

Photograph 6: Eastern portion of site, facing Third Line Road

Photograph 7: Eastern portion of site wood piles, facing east

Photograph 8: Eastern portion of site wood piles, facing east

Photograph 9: Eastern portion of site, facing northeast

Photograph 10: Eastern portion of site, facing west

Photograph 11: West of garage facing south

Photograph 12: West of garage facing north

Photograph 13: North of trailer facing west

Photograph 14: North of trailer facing east

Photograph 15: Stockpiled material southwest of main house

Photograph 16: West of garage facing northwest

Photograph 17: West of Photograph 16, facing northwest

Photograph 18: Northwest Photograph 17 facing northwest

Photograph 19: Northwest Photograph 18 facing northwest

Photograph 20: Northwest section facing southeast

Photograph 21: Northwest section facing southwest

Photograph 22: Main house, south face

Photograph 23: Main house, east face

Photograph 24: Main house, northeast corner

Photograph 25: Main house, north face

Photograph 26: Main house addition, west face

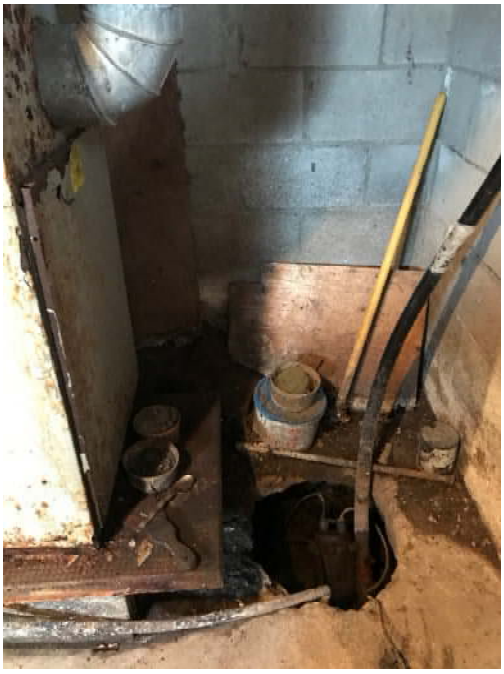
Photograph 27: Main house, west face

Photograph 28: Main house basement, heating oil tank

Photograph 29: Heating oil tank, fill and vent lines

Photograph 30: Main house basement, heating oil tank

Photograph 31: Main house basement, oil furnace



Photograph 32: Main house basement, sump pit

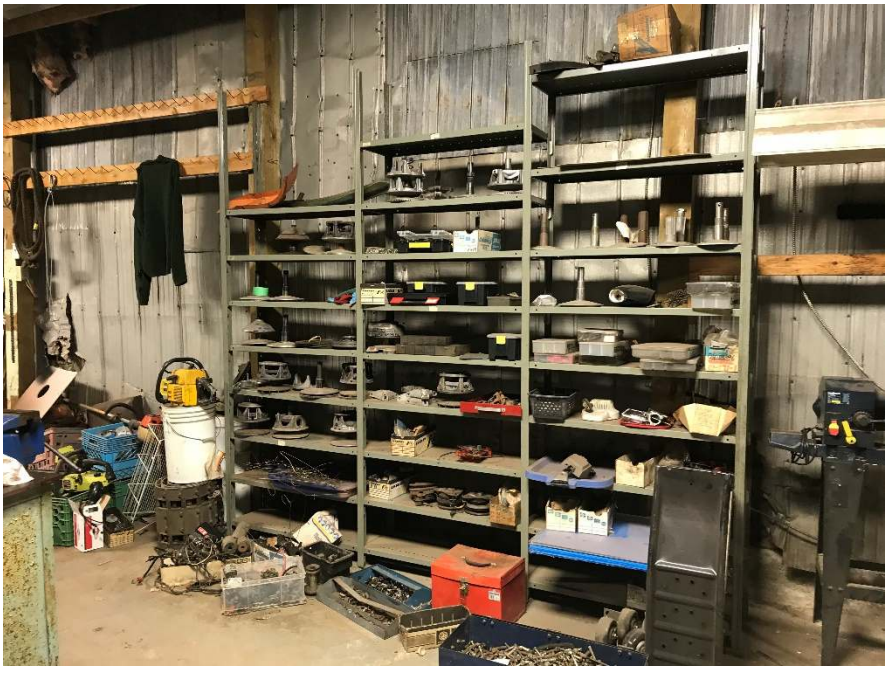
Photograph 33: Trailer home, east face

Photograph 34: Trailer home, north face

Photograph 35: Trailer home, west face

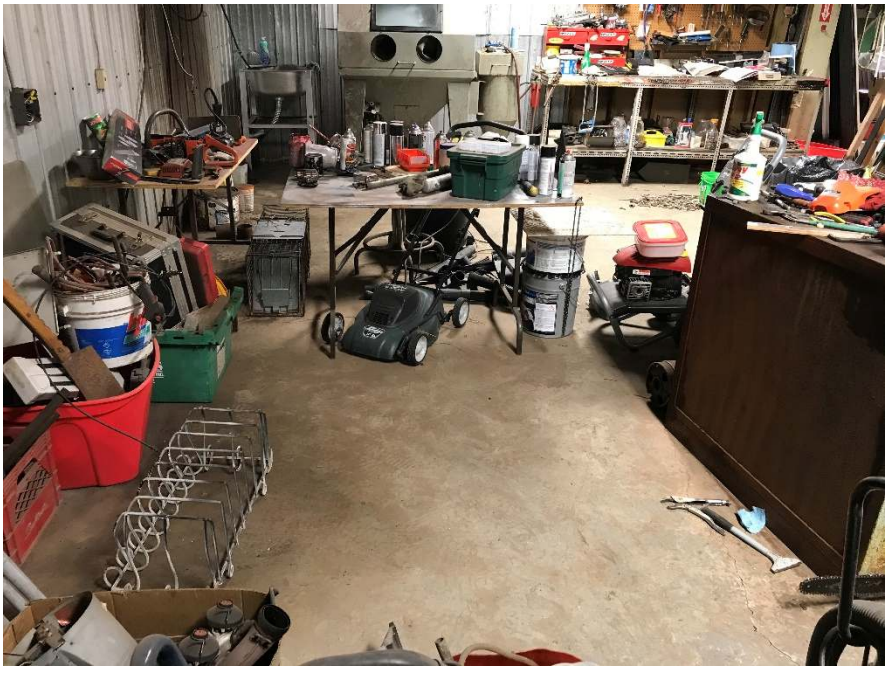
Photograph 36: Garage, south face

Photograph 37: Garage, west face



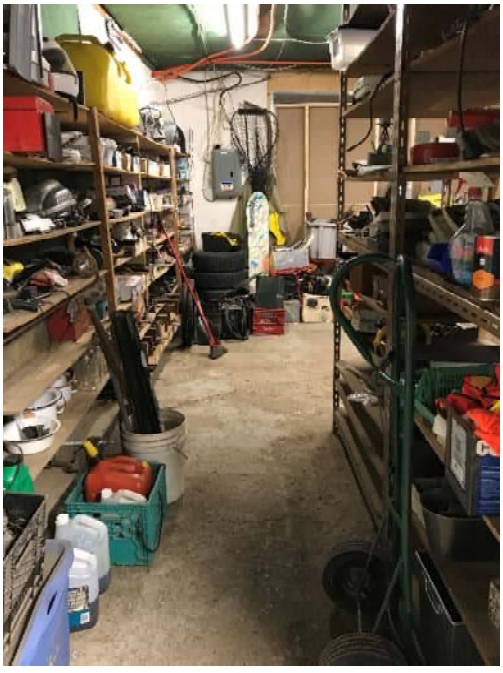
Photograph 38: Garage interior storage shelves

Photograph 39: Garage interior storage area

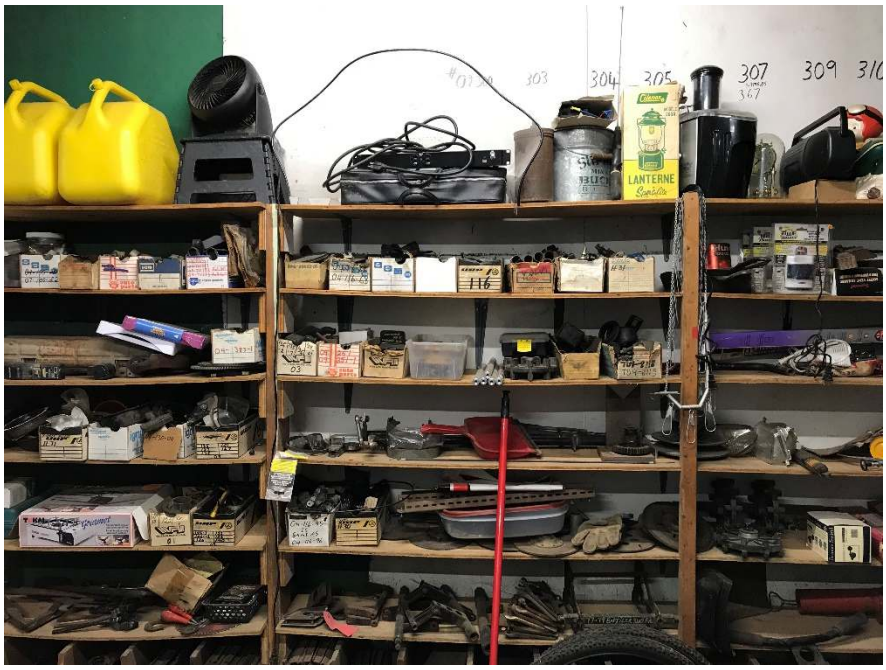


Photograph 40: Garage interior storage and work area

Photograph 41: Garage interior storage shelves



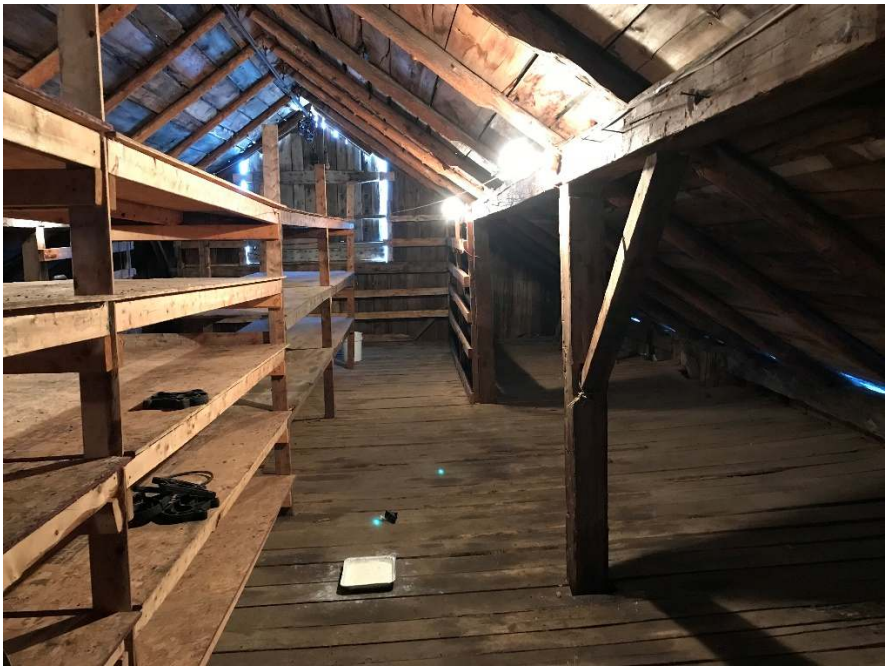
Photograph 42: Garage interior storage shelves



Photograph 43: Garage interior storage shelves

Photograph 44: Garage interior storage area

Photograph 45: Garage interior former barn section



Photograph 46: Garage interior former barn section

Photograph 47: Garage interior former barn section

Photograph 48: Garage interior hoist and work area

Photograph 49: Garage interior, Hoist control

Photograph 50: Garage interior, Hoist

Photograph 51: Garage interior staining

Photograph 52: Garage interior spill and staining

Photograph 53: Western boundary of site facing north

Photograph 54: East of Photograph 44, facing south from Dilworth

Photograph 55: East of Photograph 45, facing south from Dilworth

Photograph 56: East of Photograph 46, facing south from Dilworth

Photograph 57: Intersection of Dilworth road and Reevercraig Road facing east

Photograph 58: Intersection of Dilworth road and Reevercraig Road facing east

Photograph 59: East of Photograph 49, wetlands, facing south from Dilworth Road

Photograph 60: 2064 Dilworth Road, facing south

Photograph 61: East boundary of Site, facing east

APPENDIX C
Aerial Photographs

Aerial Photograph 1 – 1936 (National Air Photo Library)

Aerial Photograph 2 – 1959 (National Air Photo Library)

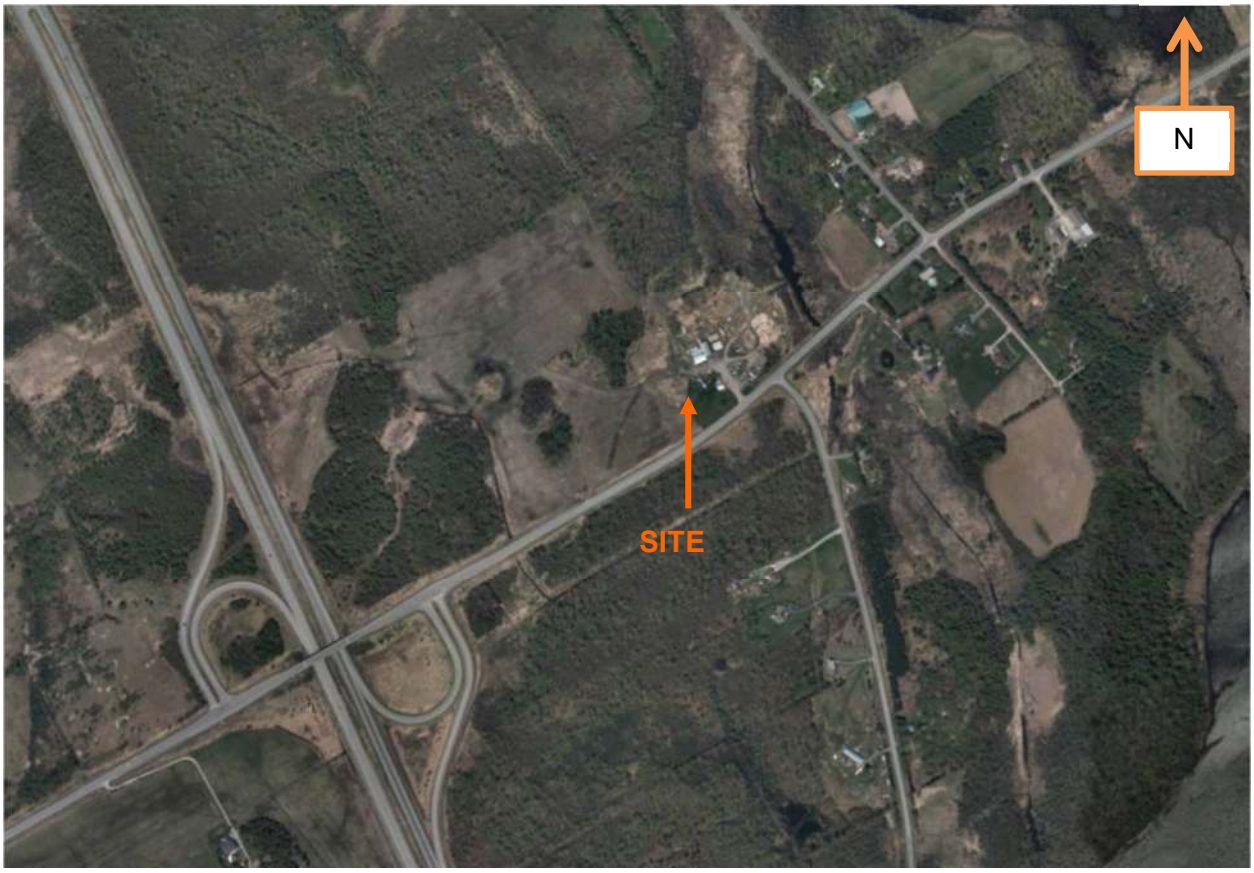
Aerial Photograph 3 – 1976 (geoOttawa)

Aerial Photograph 4 – 1991 (geoOttawa)

Aerial Photograph 5 – 2002 (geoOttawa)

Aerial Photograph 6 – 2005 (geoOttawa)

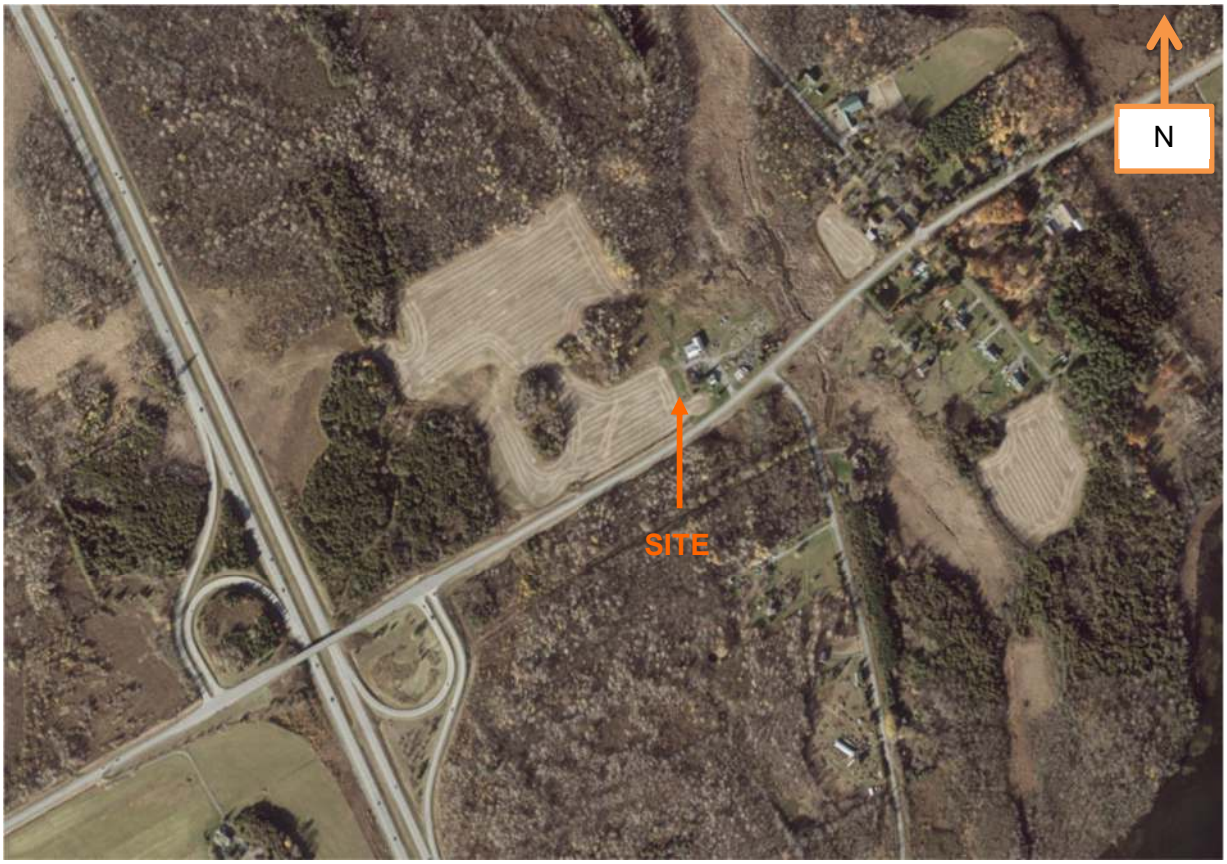
Aerial Photograph 7 – 2008 (geoOttawa)



Aerial Photograph 8 – 2011 (geoOttawa)

Aerial Photograph 9 – 2014 (geoOttawa)

Aerial Photograph 10 – 2017 (geoOttawa)



Aerial Photograph 11 – 2019 (geoOttawa)

APPENDIX D

Database Search and Information Requests

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*2095 Dilworth Road in North Gower* *2095 Dilworth Rd* *Kars ON K0A 2E0*
Project No:	
Report Type:	*Quote*
Order No:	*21011400250*
Requested by:	*DST Consulting Engineers Inc.*
Date Completed:	*February 4, 2021*

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

Table of Contents

Executive Summary

Property Information:

Project Property: *2095 Dilworth Road in North Gower*
2095 Dilworth Rd Kars ON K0A 2E0

Project No:

Coordinates:

Latitude:	*45.09726819*
Longitude:	*-75.64840604*
UTM Northing:	*4,993,960.23*
UTM Easting:	*448,982.23*
UTM Zone:	*18T*

Elevation: *295 FT*
89.88 M

Order Information:

Order No: *21011400250*
Date Requested: *January 14, 2021*
Requested by: *DST Consulting Engineers Inc.*
Report Type: *Quote*

Historical/Products:

Topographic Map *RSC Maps*

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
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	2	8	10
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 Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	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

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (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	2	2
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	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	7	14	21
	Total:		9	24	33

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 35 con 3 ON ***Well ID:*** 1516779	E/0.0	0.00	17
2	BORE		ON	SSW/0.0	0.04	20
3	WWIS		lot 35 con 3 ON ***Well ID:*** 1513307	ENE/0.0	-1.00	21
4	WWIS		lot 34 con 3 ON ***Well ID:*** 1526608	WSW/0.0	0.00	24
5	WWIS		lot 35 con 3 ON ***Well ID:*** 1513806	ENE/0.0	-1.00	27
6	WWIS		lot 35 con 3 ON ***Well ID:*** 1534319	WSW/0.0	0.00	31
7	WWIS		lot 35 con 3 ON ***Well ID:*** 1518449	W/0.0	0.00	34
8	WWIS		lot 35 con 3 ON ***Well ID:*** 1512294	ENE/0.0	-1.08	37
9	BORE		ON	SW/0.0	0.00	40

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
10	BORE		ON	SW/20.4	0.00	41
11	BORE		ON	E/21.8	-0.69	41
12	BORE		ON	SW/34.6	0.00	43
13	BORE		ON	SW/52.1	0.00	43
14	WWIS		lot 35 con 2 ON ***Well ID:*** 1511642	ENE/56.8	0.00	45
15	BORE		ON	ENE/56.8	0.00	48
16	BORE		ON	SW/58.2	0.00	50
17	BORE		ON	SW/63.7	0.00	50
18	WWIS		lot 35 con 3 ON ***Well ID:*** 1514695	SE/71.0	0.00	51
19	WWIS		lot 36 con 3 ON ***Well ID:*** 1514870	ESE/75.5	-0.92	55
20	BORE		ON	E/128.0	0.00	58
21	WWIS		lot 36 con 3 ON	E/156.5	-1.00	59

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1514876			
22	PES	RIDEAU VALLEY CONSERVATION AUTHORITY	2022 Dilworth Road Kars ON K0G 1G0	E/171.7	0.00	62
22	PES	RIDEAU VALLEY CONSERVATION AUTHORITY	2022 Dilworth Road Kars ON K0G 1G0	E/171.7	0.00	62
23	WWIS		lot 36 con 3 ON ***Well ID:*** 7048482	ESE/204.9	-3.12	63
24	WWIS		lot 36 con 3 ON ***Well ID:*** 1531276	SSW/211.7	-2.00	69
24	WWIS		lot 36 con 3 ON ***Well ID:*** 1533875	SSW/211.7	-2.00	73
24	WWIS		lot 36 con 3 ON ***Well ID:*** 1534056	SSW/211.7	-2.00	76
25	WWIS		lot 36 con 3 ON ***Well ID:*** 1526527	SSW/214.2	-2.00	79
25	WWIS		lot 36 con 3 ON ***Well ID:*** 1529354	SSW/214.2	-2.00	82
25	WWIS		lot 36 con 3 ON ***Well ID:*** 1529610	SSW/214.2	-2.00	85
26	WWIS		lot 35 con 2 ON ***Well ID:*** 1513222	ENE/220.1	-1.00	89
27	WWIS		lot 34 con 3 ON ***Well ID:*** 1533871	W/227.8	0.00	92
28	WWIS		lot 34 con 3 ON ***Well ID:*** 1516795	NNE/241.7	-0.86	95

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 10 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	SSW	0.00	2
	ON	SW	0.00	9
	ON	SW	20.42	10
	ON	SW	34.60	12
	ON	SW	52.12	13
	ON	ENE	56.82	15
	ON	SW	58.25	16
	ON	SW	63.69	17
	ON	E	128.02	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	E	21.77	11

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Dec 31, 2020 has found that there are 2 PES site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
RIDEAU VALLEY CONSERVATION AUTHORITY	2022 Dilworth Road Kars ON K0G 1G0	E	171.72	22
RIDEAU VALLEY CONSERVATION AUTHORITY	2022 Dilworth Road Kars ON K0G 1G0	E	171.72	22

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 21 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 35 con 3 ON ***Well ID:*** 1516779	E	0.00	1
	lot 34 con 3 ON ***Well ID:*** 1526608	WSW	0.00	4
	lot 35 con 3 ON ***Well ID:*** 1534319	WSW	0.00	6
	lot 35 con 3 ON ***Well ID:*** 1518449	W	0.00	7
	lot 35 con 2 ON ***Well ID:*** 1511642	ENE	56.79	14
	lot 35 con 3 ON	SE	70.95	18

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	Well ID: 1514695			
	lot 34 con 3 ON	W	227.78	27
	Well ID: 1533871			

Lower Elevation	Address	Direction	Distance (m)	Map Key
	lot 35 con 3 ON	ENE	0.00	3
	Well ID: 1513307			
	lot 35 con 3 ON	ENE	0.00	5
	Well ID: 1513806			
	lot 35 con 3 ON	ENE	0.00	8
	Well ID: 1512294			
	lot 36 con 3 ON	ESE	75.50	19
	Well ID: 1514870			
	lot 36 con 3 ON	E	156.52	21
	Well ID: 1514876			
	lot 36 con 3 ON	ESE	204.87	23
	Well ID: 7048482			
	lot 36 con 3 ON	SSW	211.73	24
	Well ID: 1531276			
	lot 36 con 3 ON	SSW	211.73	24
	Well ID: 1533875			
	lot 36 con 3 ON	SSW	211.73	24
	Well ID: 1534056			
	lot 36 con 3 ON	SSW	214.25	25

Well ID: 1526527

lot 36 con 3 ON	SSW	214.25	**25**

Well ID: 1529354

lot 36 con 3 ON	SSW	214.25	**25**

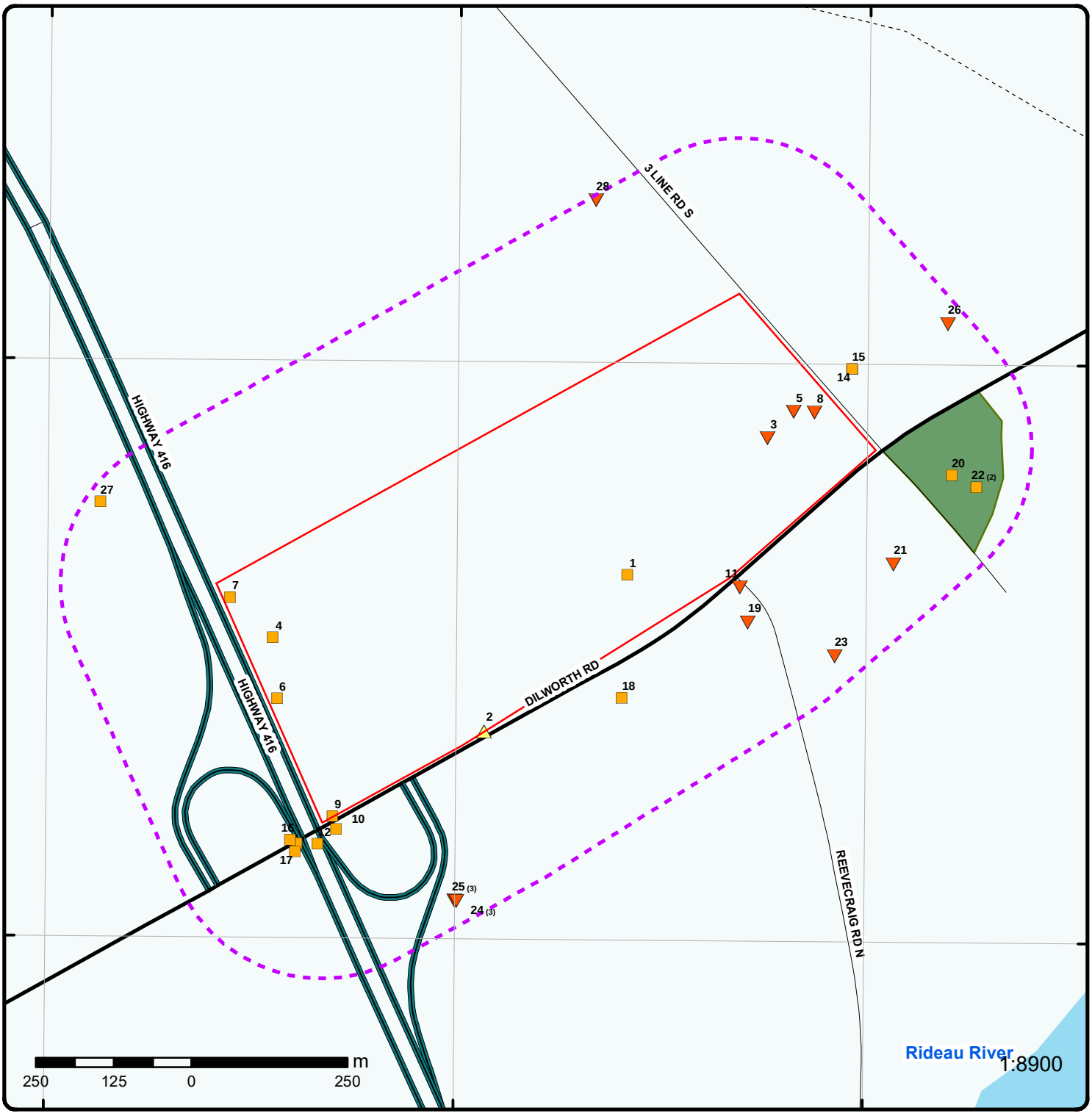
Well ID: 1529610

lot 35 con 2 ON	ENE	220.13	**26**

Well ID: 1513222

lot 34 con 3 ON	NNE	241.74	**28**

Well ID: 1516795



Map : 0.25 Kilometer Radius

Order Number: 21011400250

Address: 2095 Dilworth Rd, Kars, ON

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

75°39'W

45°6'N

45°6'N

Aerial

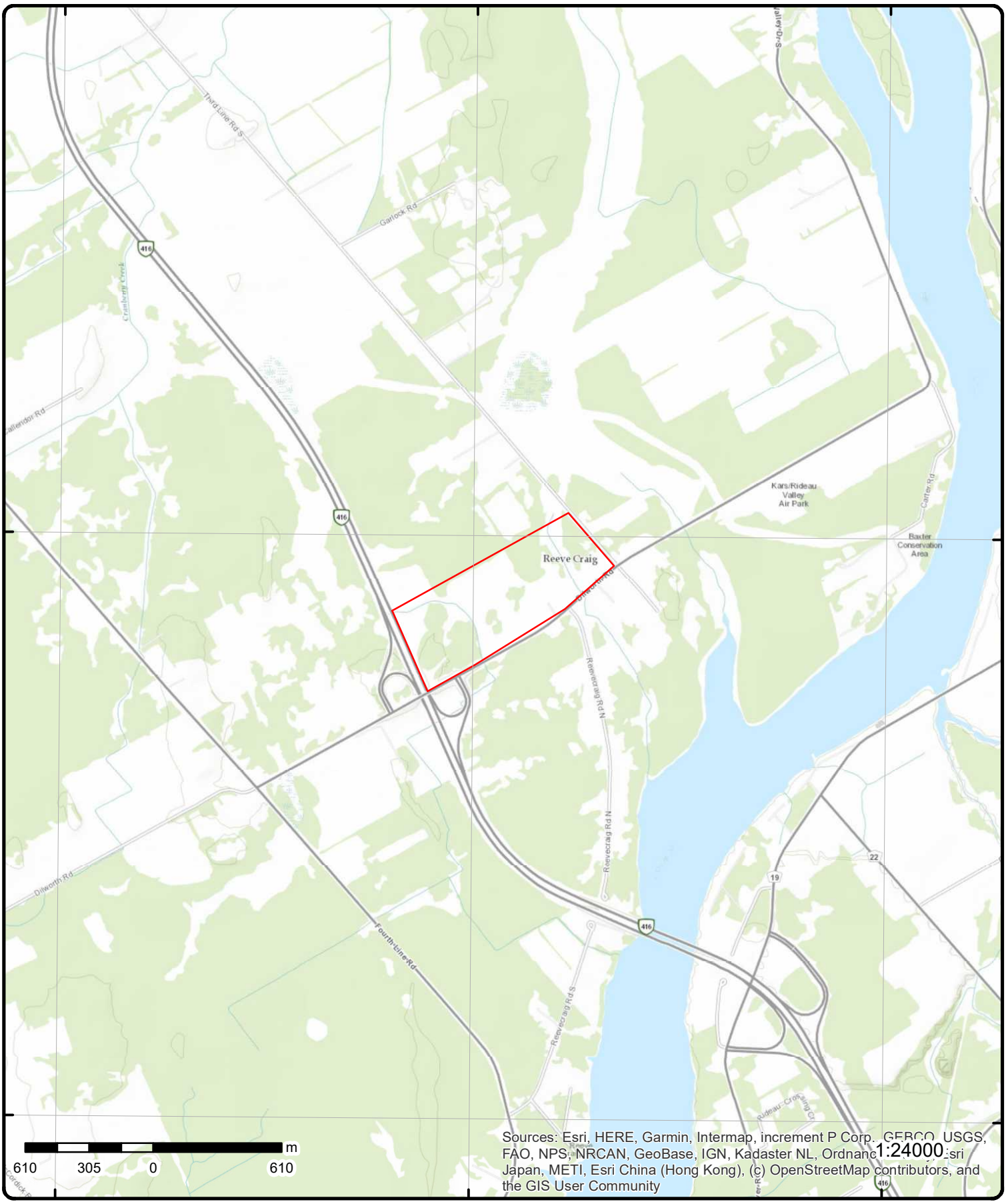
Year: 2015

Address: 2095 Dilworth Rd, Kars, ON

Source: ESRI World Imagery

Order Number: 21011400250

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 2095 Dilworth Rd, ON

Source: ESRI World Topographic Map

Order Number: 21011400250

ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	E/0.0	89.9 / 0.00	lot 35 con 3 ON	WWIS

Well ID:	1516779	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/27/1978
Sec. Water Use:	0	**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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516779.pdf

Bore Hole Information

Bore Hole ID:	10038674	**Elevation:**	88.787696
DP2BR:	24	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	449130.7
Code OB Desc:	Bedrock	**North83:**	4993922
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	9/15/1978	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931033144
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 190
Formation End Depth: 215
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931033143
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 24
Formation End Depth: 190
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931033142
Layer: 1
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 24
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961516779
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10587244
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930067915
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: 991516779
Pump Set At:
Static Level: 6
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934102348
Test Type: Draw Down
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381510
Test Type: Draw Down
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934643017
Test Type: Draw Down
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934900501
Test Type: Draw Down
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933473138

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

2 **1 of 1** **SSW/0.0** **89.9 / 0.04** **ON** **BORE**

Borehole ID:	611413	**Inclin FLG:**	No
OGF ID:	215512735	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	AUG-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.094668
Total Depth m:	-999	**Longitude DD:**	-75.649413
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448901
Drill Method:		**Northing:**	4993672
Orig Ground Elev m:	87.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	87.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218388284	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Unknown	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 1700.		

Geology Stratum ID:	218388285	**Mat Consistency:**	Firm
Top Depth:	3.7	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. SEISMIC VELOCITY = 15000. BEDROCK. SEISMIC VELOCITY = 14000. 8790FIRM. CLAY.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	L	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 03921 NTS_Sheet:		

Confiden 1: Gives some indication of sub-surface condition but material is unknown.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

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3 | ***1 of 1*** | ***ENE/0.0*** | ***88.9 / -1.00*** | ***lot 35 con 3 ON*** | ***WWIS***

Well ID: 1513307
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: 8/13/1973
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 035
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513307.pdf

Bore Hole Information

Bore Hole ID: 10035294
DP2BR: 25
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/27/1973
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 88.28318
Elevrc:
Zone: 18
East83: 449355.7
North83: 4994141
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: gis

Overburden and Bedrock Materials Interval

Formation ID: 931022986
Layer: 4
Color:

General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 25
Formation End Depth: 73
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022983
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022984
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022985
Layer: 3
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 20
Formation End Depth: 25
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	961513307
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10583864
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930062526
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

Construction Record - Casing

Casing ID:	930062527
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	73
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513307
Pump Set At:	
Static Level:	10
Final Level After Pumping:	40
Recommended Pump Depth:	45
Pumping Rate:	8
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934099003
Test Type:	Draw Down

Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934639534
Test Type: Draw Down
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934897012
Test Type: Draw Down
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378535
Test Type: Draw Down
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933468826
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

Water Details

Water ID: 933468827
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 73
Water Found Depth UOM: ft

---

4 | **1 of 1** | **WSW/0.0** | **89.9 / 0.00** | **lot 34 con 3 ON** | **WWIS**

Well ID: 1526608
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 111937
Tag:
Construction Method:
Elevation (m):

Data Entry Status:
Data Src: 1
Date Received: 10/26/1992
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	034
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1526608.pdf

Bore Hole Information

Bore Hole ID:	10048303	**Elevation:**	88.187484
DP2BR:	83	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448562.7
Code OB Desc:	Bedrock	**North83:**	4993822
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10/14/1992	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931064667
Layer:	1
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	83
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931064668
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	83
Formation End Depth:	103
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961526608
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10596873
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930084575
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	86
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930084576
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	103
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991526608
Pump Set At:	
Static Level:	30
Final Level After Pumping:	80
Recommended Pump Depth:	80
Pumping Rate:	15
Flowing Rate:	
Recommended Pump Rate:	15
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934909728
Test Type:	Recovery
Test Duration:	60
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934652532
Test Type:	Recovery
Test Duration:	45
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934391597
Test Type:	Recovery
Test Duration:	30
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934107967
Test Type:	Recovery
Test Duration:	15
Test Level:	32
Test Level UOM:	ft

Water Details

Water ID:	933485979
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	97
Water Found Depth UOM:	ft

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5 ***1 of 1*** ***ENE/0.0*** ***88.9 / -1.00*** ***lot 35 con 3 ON*** ***WWIS***

Well ID:	1513806	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	2/11/1974
Sec. Water Use:	0	**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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	

Flow Rate:
Clear/Cloudy:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513806.pdf

Bore Hole Information

Bore Hole ID:	10035788	**Elevation:**	88.789245
DP2BR:	25	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	449397.7
Code OB Desc:	Bedrock	**North83:**	4994183
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/27/1973	**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:	931024529
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15
Formation End Depth:	20
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931024530
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20
Formation End Depth:	25
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931024528
Layer:	1

Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	15
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931024531
Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	25
Formation End Depth:	73
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961513806
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10584358
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930063286
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	73
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930063285
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: 991513806
Pump Set At:
Static Level: 10
Final Level After Pumping: 40
Recommended Pump Depth: 45
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934641236
Test Type: Draw Down
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934380242
Test Type: Draw Down
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934099585
Test Type: Draw Down
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934898709
Test Type: Draw Down
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933469534
Layer: 2

Kind Code:	1
Kind:	FRESH
Water Found Depth:	73
Water Found Depth UOM:	ft

Water Details

Water ID:	933469533
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55
Water Found Depth UOM:	ft

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6 | ***1 of 1*** | ***WSW/0.0*** | ***89.9 / 0.00*** | ***lot 35 con 3 ON*** | ***WWIS***

Well ID:	1534319	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/13/2003
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	2
Audit No:	267035	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534319.pdf

Bore Hole Information

Bore Hole ID:	11097369	**Elevation:**	89.469161
DP2BR:	38	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448569.3
Code OB Desc:	Bedrock	**North83:**	4993724
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	10/23/2003	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932942102
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	8
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932942103
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8
Formation End Depth:	22
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932942104
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	22
Formation End Depth:	38
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932942105
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	38
Formation End Depth:	150

Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933245146
Layer: 1
Plug From: 0
Plug To: 42
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961534319
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11101084
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930832115
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 150
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930832114
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 42
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991534319
Pump Set At:
Static Level: 2
Final Level After Pumping: 27
Recommended Pump Depth: 25
Pumping Rate: 50
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft

Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934915218
Test Type:	Draw Down
Test Duration:	60
Test Level:	145
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934657771
Test Type:	Draw Down
Test Duration:	45
Test Level:	75
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934114197
Test Type:	Draw Down
Test Duration:	15
Test Level:	27
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934397811
Test Type:	Draw Down
Test Duration:	30
Test Level:	60
Test Level UOM:	ft

Water Details

Water ID:	934042558
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	139
Water Found Depth UOM:	ft

7 | ***1 of 1*** | ***W/0.0*** | ***89.9 / 0.00*** | ***lot 35 con 3 ON*** | ***WWIS***

Well ID:	1518449	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/3/1983
Sec. Water Use:		**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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518449.pdf

Bore Hole Information

Bore Hole ID:	10040319	**Elevation:**	88.200569
DP2BR:	63	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448493.7
Code OB Desc:	Bedrock	**North83:**	4993886
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	5/25/1983	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931038478
Layer:	2
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12
Formation End Depth:	63
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931038479
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	

Formation Top Depth:	63
Formation End Depth:	84
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931038477
Layer:	1
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	12
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961518449
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10588889
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930070387
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	84
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930070386
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	65
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991518449
Pump Set At:	
Static Level:	8
Final Level After Pumping:	25
Recommended Pump Depth:	25
Pumping Rate:	50
Flowing Rate:	
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934379351
Test Type:	
Test Duration:	30
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934898454
Test Type:	
Test Duration:	60
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934640411
Test Type:	
Test Duration:	45
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934103765
Test Type:	
Test Duration:	15
Test Level:	25
Test Level UOM:	ft

Water Details

Water ID:	933475160
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	80
Water Found Depth UOM:	ft

8	***1 of 1***	***ENE/0.0***	***88.8 / -1.08***	***lot 35 con 3***	***WWIS***

Well ID:	1512294	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/31/1973
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4904
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512294.pdf

Bore Hole Information

Bore Hole ID:	10034286	**Elevation:**	89.020172
DP2BR:	20	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	449430.7
Code OB Desc:	Bedrock	**North83:**	4994182
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	8/3/1972	**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:	931020224
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20
Formation End Depth:	36
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931020223
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Mat2 Desc: SILT
Mat3: 28
Mat3 Desc: SAND
Formation Top Depth: 0
Formation End Depth: 20
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961512294
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10582856
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930060789
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991512294
Pump Set At:
Static Level: 4
Final Level After Pumping: 25
Recommended Pump Depth: 32
Pumping Rate: 6
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: No

Draw Down & Recovery

Pump Test Detail ID: 934097947
Test Type: Draw Down
Test Duration: 15
Test Level: 4
Test Level UOM: ft

Water Details

Water ID: 933467692
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 30
Water Found Depth UOM: ft

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9 | **1 of 1** | **SW/0.0** | **89.9 / 0.00** | **ON** | **BORE**

Borehole ID: 880938
OGF ID: 215587748
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 10-OCT-1990
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 7.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Hollow stem auger
Orig Ground Elev m: 87.7
Elev Reliabil Note:
DEM Ground Elev m: 90.3
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot: ROAD
Township: NORTH GOWER
Latitude DD: 45.093417
Longitude DD: -75.652483
UTM Zone: 18
Easting: 448658
Northing: 4993535
Location Accuracy:
Accuracy: Within 10 metres

Borehole Geology Stratum

Geology Stratum ID: 8003768
Top Depth: 0
Bottom Depth: 3.3
Material Color: Brown
Material 1: Till
Material 2: Sand
Material 3: Gravel
Material 4:
Gsc Material Description:
Stratum Description: GRAVELLY SAND TO SANDY GRAVEL, SOME SILT (GLACIAL TILL), OCC. COBBLES AND BOULDERS, COMPACT TO VERY DENSE, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency: Compact
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial

Geology Stratum ID: 8003769
Top Depth: 3.3
Bottom Depth: 7.9
Material Color:
Material 1: Bedrock
Material 2: Limestone
Material 3: Fractured
Material 4:

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Gsc Material Description:
Stratum Description: LIMESTONE BEDROCK, FRACTURED, POOR QUALITY, SOUND, EXCELLENT QUALITY **Note: Many records provided by the department have a truncated [Stratum Description] field.

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10 | **1 of 1** | **SW/20.4** | **89.9 / 0.00** | **ON** | **BORE**

Borehole ID:	880935	**Inclin FLG:**	No
OGF ID:	215587745	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	09-OCT-1990	**Municipality:**	
Static Water Level:		**Lot:**	LOT 36
Primary Water Use:		**Township:**	NORTH GOWER
Sec. Water Use:		**Latitude DD:**	45.093229
Total Depth m:	3.4	**Longitude DD:**	-75.652405
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448664
Drill Method:	Hollow stem auger	**Northing:**	4993514
Orig Ground Elev m:	87.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	89.7		
Concession:	CON 3		
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	8003763	**Mat Consistency:**	
Top Depth:	1.8	**Material Moisture:**	
Bottom Depth:	3.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Fractured	**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: LIMESTONE BEDROCK, POOR QUALITY, FRACTURED, EXCELLENT QUALITY, SOUND **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	8003762	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: GRAVELLY SAND TO SANDY GRAVEL WITH SILT (GLACIAL TILL), COMPACT TO VERY DENSE, OCC. COBBLES AND BOULDERS, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.

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11 | **1 of 1** | **E/21.8** | **89.2 / -0.69** | **ON** | **BORE**

Borehole ID:	611415	**Inclin FLG:**	No
OGF ID:	215512737	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	AUG-1970	**Municipality:**	

Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.096768
Total Depth m:	-999	**Longitude DD:**	-75.644226
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	449311
Drill Method:		**Northing:**	4993902
Orig Ground Elev m:	88.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	89.8		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218388288	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Unknown	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 1300.		

Geology Stratum ID:	218388289	**Mat Consistency:**	
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	5.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Unknown	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 4500.		

Geology Stratum ID:	218388290	**Mat Consistency:**	Firm
Top Depth:	5.2	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. SEISMIC VELOCITY = 14500. 8790FIRM. CLAY. GREY,FIRM. SAND. BROWN. BEDROCK,UNSPE **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	L	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 03923 NTS_Sheet:		
Confiden 1:	Gives some indication of sub-surface condition but material is unknown.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

12 **1 of 1** **SW/34.6** **89.9 / 0.00** **ON** **BORE**

Borehole ID:	880936	**Inclin FLG:**	No
OGF ID:	215587746	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	09-OCT-1990	**Municipality:**	
Static Water Level:		**Lot:**	LOT 36
Primary Water Use:		**Township:**	NORTH GOWER
Sec. Water Use:		**Latitude DD:**	45.093019
Total Depth m:	6.9	**Longitude DD:**	-75.652783
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448634
Drill Method:	Hollow stem auger	**Northing:**	4993491
Orig Ground Elev m:	87.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	89.8		
Concession:	CON 3		
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	8003764	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	GRAVELLY SAND TO SANDY GRAVEL, SOME SILT (GLACIAL TILL), OCC. COBBLES AND BOULDERS, DENSE, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	8003765	**Mat Consistency:**	
Top Depth:	3.8	**Material Moisture:**	
Bottom Depth:	6.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Fractured	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE BEDROCK, FRACTURED, VERY POOR TO POOR QUALITY **Note: Many records provided by the department have a truncated [Stratum Description] field.		

13 **1 of 1** **SW/52.1** **89.9 / 0.00** **ON** **BORE**

Borehole ID:	611412	**Inclin FLG:**	No
OGF ID:	215512734	**SP Status:**	Initial Entry

Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	AUG-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.093026
Total Depth m:	-999	**Longitude DD:**	-75.653207
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448601
Drill Method:		**Northing:**	4993492
Orig Ground Elev m:	89.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	90		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218388281	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Unknown	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 1600.		

Geology Stratum ID:	218388282	**Mat Consistency:**	
Top Depth:	3.4	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Unknown	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 7200.		

Geology Stratum ID:	218388283	**Mat Consistency:**	Firm
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. SEISMIC VELOCITY = 14000. 8790FIRM. CLAY. GREY,FIRM. SAND. BROWN. BEDROCK,UNSPE **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	L	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 03920 NTS_Sheet:		

Confiden 1: Gives some indication of sub-surface condition but material is unknown.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

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14 | **1 of 1** | **ENE/56.8** | **89.9 / 0.00** | **lot 35 con 2 ON** | **WWIS**

Well ID: 1511642
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: 1/13/1972
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 035
Concession: 02
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1511642.pdf

Bore Hole Information

Bore Hole ID: 10033636
DP2BR: 26
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 12/2/1971
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation: 89.414405
Elevrc:
Zone: 18
East83: 449490.7
North83: 4994252
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931018347
Layer: 1
Color: 6
General Color: BROWN

Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 11
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931018349
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 16
Formation End Depth: 26
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931018350
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 26
Formation End Depth: 81
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931018348
Layer: 2
Color: 2
General Color: GREY
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 11
Formation End Depth: 16
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961511642
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10582206
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930059756
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 33
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930059757
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 81
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991511642
Pump Set At:
Static Level: 6
Final Level After Pumping: 40
Recommended Pump Depth: 60
Pumping Rate: 7
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934098295
Test Type: Draw Down
Test Duration: 15

Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934901889
Test Type: Draw Down
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644971
Test Type: Draw Down
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934382837
Test Type: Draw Down
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933466867
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 80
Water Found Depth UOM: ft

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15 ***1 of 1*** ***ENE/56.8*** ***89.9 / 0.00*** ***ON*** ***BORE***

Borehole ID: 611418
OGF ID: 215512740
Status:
Type: Borehole
Use:
Completion Date: DEC-1971
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 24.7
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 89.9
Elev Reliabil Note:
DEM Ground Elev m: 89.4
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.099931
Longitude DD: -75.641973
UTM Zone: 18
Easting: 449491
Northing: 4994252
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218388298
Top Depth: 4.9
Bottom Depth: 7.9
Material Color: Grey
Material 1:
Material 2: Boulders
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: HARDPAN,BOULDERS. GREY.

Mat Consistency: Hard
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218388299
Top Depth: 7.9
Bottom Depth: 24.7
Material Color: Brown
Material 1: Limestone
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: LIMESTONE. GREY. 00080LOCITY = 14500. 8790FIRM. CLAY. GREY,FIRM. SAND. BROWN. BEDROC **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency: Firm
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218388296
Top Depth: 0
Bottom Depth: 3.4
Material Color: Brown
Material 1: Sand
Material 2: Boulders
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND,BOULDERS. BROWN.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218388297
Top Depth: 3.4
Bottom Depth: 4.9
Material Color: Grey
Material 1: Sand
Material 2: Boulders
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND,BOULDERS. GREY.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 03926 NTS_Sheet:
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

Source Originators: Geological Survey of Canada

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16 ***1 of 1*** ***SW/58.2*** ***89.9 / 0.00*** ***ON*** ***BORE***

Borehole ID:	880939	***Inclin FLG:***	No
OGF ID:	215587749	***SP Status:***	Initial Entry
Status:	Decommissioned	***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	04-OCT-1990	***Municipality:***	
Static Water Level:		***Lot:***	ROAD
Primary Water Use:		***Township:***	NORTH GOWER
Sec. Water Use:		***Latitude DD:***	45.09307
Total Depth m:	7	***Longitude DD:***	-75.653343
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	448590
Drill Method:	Hollow stem auger	***Northing:***	4993497
Orig Ground Elev m:	88.2	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Within 10 metres
DEM Ground Elev m:	90.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	8003771	***Mat Consistency:***	
Top Depth:	4.1	***Material Moisture:***	
Bottom Depth:	7	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Limestone	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	LIMESTONE BEDROCK, POOR QUALITY, EXCELLENT QUALITY **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	8003770	***Mat Consistency:***	Compact
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	4.1	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Gravel	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	GRAVELLY SAND TO SANDY GRAVEL, TRACE SILT (GLACIAL TILL), OCC. COBBLES AND BOULDERS, COMPACT, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.		

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17 ***1 of 1*** ***SW/63.7*** ***89.9 / 0.00*** ***ON*** ***BORE***

Borehole ID:	880937	***Inclin FLG:***	No
OGF ID:	215587747	***SP Status:***	Initial Entry
Status:	Decommissioned	***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	05-OCT-1990	***Municipality:***	
Static Water Level:		***Lot:***	LOT 36

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

Primary Water Use:		**Township:**	NORTH GOWER
Sec. Water Use:		**Latitude DD:**	45.0929
Total Depth m:	7	**Longitude DD:**	-75.65324
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448598
Drill Method:	Hollow stem auger	**Northing:**	4993478
Orig Ground Elev m:	88.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	89.8		
Concession:	CON 3		
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	8003766	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	GRAVELLY SAND TO SANDY GRAVEL WITH SILT (GLACIAL TILL), OCC. COBBLES AND BOULDERS, VERY DENSE TO DENSE, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	8003767	**Mat Consistency:**	
Top Depth:	4	**Material Moisture:**	
Bottom Depth:	7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Fractured	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE BEDROCK, FRACTURED, POOR QUALITY, SOUND, GOOD QUALITY **Note: Many records provided by the department have a truncated [Stratum Description] field.		

18	*1 of 1*	*SE/71.0*	*89.9 / 0.00*	*lot 35 con 3 ON*	*WWIS*

Well ID:	1514695	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/5/1975
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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514695.pdf

Bore Hole Information

Bore Hole ID:	10036665	***Elevation:***	89.429649
DP2BR:	90	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	449121.7
Code OB Desc:	Bedrock	***North83:***	4993725
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	5/20/1975	***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:	931027010
Layer:	4
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	75
Formation End Depth:	90
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027008
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12
Formation End Depth:	35
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027011
Layer:	5
Color:	8
General Color:	BLACK

Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	90
Formation End Depth:	116
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027009
Layer:	3
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	35
Formation End Depth:	75
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027007
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	01
Mat2 Desc:	FILL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	12
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514695
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10585235
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930064805

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 90
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930064806
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 94
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930064807
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 116
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991514695
Pump Set At:
Static Level: 15
Final Level After Pumping: 60
Recommended Pump Depth: 90
Pumping Rate: 3
Flowing Rate:
Recommended Pump Rate: 3
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: No

Draw Down & Recovery

Pump Test Detail ID: 934901988
Test Type: Draw Down
Test Duration: 60
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644100
Test Type: Draw Down
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934100514
Test Type: Draw Down
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934383530
Test Type: Draw Down
Test Duration: 30
Test Level: 60
Test Level UOM: ft

Water Details

Water ID: 933470626
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 112
Water Found Depth UOM: ft

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19 | **1 of 1** | **ESE/75.5** | **89.0 / -0.92** | **lot 36 con 3 ON** | **WWIS**

Well ID: 1514870
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: 8/22/1975
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 036
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514870.pdf

Bore Hole Information

Bore Hole ID: 10036838
DP2BR:
Spatial Status:

Elevation: 89.495475
Elevrc:
Zone: 18

Code OB:	o	**East83:**	449323.7
Code OB Desc:	Overburden	**North83:**	4993846
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/9/1975	**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:	931027553
Layer:	2
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	21
Formation End Depth:	25
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027552
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	21
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514870
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10585408
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930065122
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	25
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991514870
Pump Set At:	
Static Level:	6
Final Level After Pumping:	20
Recommended Pump Depth:	20
Pumping Rate:	30
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934893803
Test Type:	Draw Down
Test Duration:	60
Test Level:	20
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934100678
Test Type:	Draw Down
Test Duration:	15
Test Level:	20
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934384111
Test Type:	Draw Down
Test Duration:	30
Test Level:	20
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934644678
Test Type:	Draw Down
Test Duration:	45
Test Level:	20
Test Level UOM:	ft

Water Details

Water ID:	933470845
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	25
Water Found Depth UOM:	ft

20 ***1 of 1*** ***E/128.0*** ***89.9 / 0.00*** ***ON*** ***BORE***

Borehole ID:	611416	***Inclin FLG:***	No
OGF ID:	215512738	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	AUG-1970	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.098412
Total Depth m:	-999	***Longitude DD:***	-75.639923
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	449651
Drill Method:		***Northing:***	4994082
Orig Ground Elev m:	89.9	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	89.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218388292	***Mat Consistency:***	Firm
Top Depth:	3.4	***Material Moisture:***	
Bottom Depth:		***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK. SEISMIC VELOCITY = 16600. BEDROCK. SEISMIC VELOCITY = 14500. 8790FIRM. CLAY.		

Geology Stratum ID:	218388291	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	3.4	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Unknown	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	UNSPECIFIED. SEISMIC VELOCITY = 1200.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1

Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	L	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 03924 NTS_Sheet:		
Confiden 1:	Gives some indication of sub-surface condition but material is unknown.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

21	1 of 1	E/156.5	88.9 / -1.00	lot 36 con 3 ON	WWIS

Well ID:	1514876	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/22/1975
Sec. Water Use:	0	**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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	036
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514876.pdf

Bore Hole Information

Bore Hole ID:	10036844	**Elevation:**	89.662025
DP2BR:	21	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	449557.7
Code OB Desc:	Bedrock	**North83:**	4993939
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/9/1975	**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:	931027567
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	21
Formation End Depth:	135
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027566
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6
Formation End Depth:	21
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027565
Layer:	1
Color:	7
General Color:	RED
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	6
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514876
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10585414
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930065128
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	23
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930065129
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	135
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991514876
Pump Set At:	
Static Level:	5
Final Level After Pumping:	100
Recommended Pump Depth:	100
Pumping Rate:	2
Flowing Rate:	
Recommended Pump Rate:	2
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934645102
Test Type:	Draw Down
Test Duration:	45
Test Level:	100
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934100684
Test Type:	Draw Down
Test Duration:	15
Test Level:	100
Test Level UOM:	ft

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

Draw Down & Recovery

Pump Test Detail ID: 934384117
Test Type: Draw Down
Test Duration: 30
Test Level: 100
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934893809
Test Type: Draw Down
Test Duration: 60
Test Level: 100
Test Level UOM: ft

Water Details

Water ID: 933470851
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 130
Water Found Depth UOM: ft

22	*1 of 2*	*E/171.7*	*89.9 / 0.00*	***RIDEAU VALLEY CONSERVATION AUTHORITY*** ***2022 Dilworth Road*** ***Kars ON K0G 1G0***	***PES***

Detail Licence No:
Licence No: L-240-7043270961
Status: Active
Approval Date: 2019-02-06
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 45.09805556
Longitude: -75.63777778
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2123868

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Ottawa
SWP Area Name: Rideau Valley

22	*2 of 2*	*E/171.7*	*89.9 / 0.00*	***RIDEAU VALLEY CONSERVATION AUTHORITY*** ***2022 Dilworth Road*** ***Kars ON K0G 1G0***	***PES***

Detail Licence No:
Licence No: L-240-7043270961
Status: Active
Approval Date: 2019-12-16
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 45.09805556

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:

Longitude:	-75.63777778	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Ottawa
County:		**SWP Area Name:**	Rideau Valley
Trade Name:			

PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2200763

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23 | **1 of 1** | **ESE/204.9** | **86.8 / -3.12** | **lot 36 con 3 ON** | **WWIS**

Well ID:	7048482	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	8/23/2007
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4877
Casing Material:		**Form Version:**	3
Audit No:	Z72515	**Owner:**	
Tag:	A049954	**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	036
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7048482.pdf

Bore Hole Information

Bore Hole ID:	23048482	**Elevation:**	87.862731
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	449463
Code OB Desc:		**North83:**	4993792
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	6/20/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	30248482
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY

Mat2: 12
Mat2 Desc: STONES
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 2.74
Formation End Depth: 8.23
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30348482
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 16
Mat2 Desc: DOLOMITE
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 8.23
Formation End Depth: 55.17
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30148482
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 0
Formation End Depth: 2.74
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 44003968
Layer: 1
Plug From: 9.45
Plug To: 6.1
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 25948482
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 29048482

Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 42248482
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 9.45
Depth To: 55.17
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 42148482
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 9.45
Casing Diameter: 15.88
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 27048482
Pump Set At: 51.82
Static Level: 1.86
Final Level After Pumping: 31.57
Recommended Pump Depth: 51.82
Pumping Rate: 22.75
Flowing Rate:
Recommended Pump Rate: 22.75
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 45031687
Test Type: Recovery
Test Duration: 1
Test Level: 30.52
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031697
Test Type: Draw Down
Test Duration: 40
Test Level: 26.08
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031700
Test Type: Recovery
Test Duration: 40
Test Level: 16.66
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031699
Test Type: Draw Down
Test Duration: 2
Test Level: 4.44
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031709
Test Type: Draw Down
Test Duration: 25
Test Level: 21.19
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031706
Test Type: Recovery
Test Duration: 3
Test Level: 29.78
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031689
Test Type: Draw Down
Test Duration: 4
Test Level: 6.23
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031690
Test Type: Recovery
Test Duration: 30
Test Level: 19.71
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031685
Test Type: Recovery
Test Duration: 60
Test Level: 11.87
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031696
Test Type: Draw Down
Test Duration: 15
Test Level: 15.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031692
Test Type: Recovery
Test Duration: 5
Test Level: 29.21
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031704
Test Type: Recovery
Test Duration: 25
Test Level: 21.42
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031701
Test Type: Draw Down
Test Duration: 30
Test Level: 22.88
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031686
Test Type: Draw Down
Test Duration: 60
Test Level: 31.57
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031695
Test Type: Draw Down
Test Duration: 1
Test Level: 3.51
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031703
Test Type: Recovery
Test Duration: 50
Test Level: 13.57
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031684
Test Type: Recovery
Test Duration: 4
Test Level: 29.48

Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031691
Test Type: Draw Down
Test Duration: 5
Test Level: 7.12
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031688
Test Type: Draw Down
Test Duration: 10
Test Level: 11.38
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031693
Test Type: Recovery
Test Duration: 10
Test Level: 26.42
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031705
Test Type: Draw Down
Test Duration: 20
Test Level: 19.86
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031694
Test Type: Recovery
Test Duration: 15
Test Level: 25.35
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031698
Test Type: Recovery
Test Duration: 20
Test Level: 23.35
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031708
Test Type: Recovery
Test Duration: 2
Test Level: 30.21
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031707
Test Type: Draw Down
Test Duration: 3
Test Level: 5.54
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45031702
Test Type: Draw Down
Test Duration: 50
Test Level: 29.18
Test Level UOM: m

Water Details

Water ID: 41248482
Layer: 2
Kind Code:
Kind:
Water Found Depth: 49.68
Water Found Depth UOM: m

Water Details

Water ID: 41148482
Layer: 1
Kind Code:
Kind:
Water Found Depth: 45
Water Found Depth UOM: m

Hole Diameter

Hole ID: 46002817
Diameter: 15.55
Depth From: 9.45
Depth To: 55.17
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 46002816
Diameter: 25.08
Depth From: 0
Depth To: 9.45
Hole Depth UOM: m
Hole Diameter UOM: cm

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24 | ***1 of 3*** | ***SSW/211.7*** | ***87.9 / -2.00*** | ***lot 36 con 3 ON*** | ***WWIS***

Well ID: 1531276
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:

Data Entry Status:
Data Src: 1
Date Received: 8/18/2000
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 1

Audit No:	217043	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	036
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1531276.pdf

Bore Hole Information

Bore Hole ID:	10052810	**Elevation:**	88.564727
DP2BR:	24	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448853.3
Code OB Desc:	Bedrock	**North83:**	4993400
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	7/17/2000	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931078054
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	24
Formation End Depth:	81
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931078053
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	

Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 24
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933116448
Layer: 1
Plug From: 2
Plug To: 30
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531276
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10601380
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092350
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930092352
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930092351
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:

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

Results of Well Yield Testing

Pump Test ID: 991531276
Pump Set At:
Static Level: 5
Final Level After Pumping: 60
Recommended Pump Depth: 60
Pumping Rate: 16
Flowing Rate:
Recommended Pump Rate: 16
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934657027
Test Type: Recovery
Test Duration: 45
Test Level: 5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934395953
Test Type: Recovery
Test Duration: 30
Test Level: 5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934913919
Test Type: Recovery
Test Duration: 60
Test Level: 5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934113449
Test Type: Recovery
Test Duration: 15
Test Level: 5
Test Level UOM: ft

Water Details

Water ID: 933491668
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 61
Water Found Depth UOM: ft

Water Details

Water ID: 933491669
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 73
Water Found Depth UOM: ft

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24 | **2 of 3** | **SSW/211.7** | **87.9 / -2.00** | **lot 36 con 3 ON** | **WWIS**

Well ID:	1533875	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/16/2003
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	1
Audit No:	248377	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	036
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533875.pdf

Bore Hole Information

Bore Hole ID:	10542990	**Elevation:**	88.564727
DP2BR:	31	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448853.3
Code OB Desc:	Bedrock	**North83:**	4993400
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	6/17/2003	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 932924476
Layer: 2
Color: 2

General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	31
Formation End Depth:	220
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932924475
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	31
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933240774
Layer:	1
Plug From:	0
Plug To:	35
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961533875
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	11091560
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930097781
Layer:	1
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	8
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930097783
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930097782
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991533875
Pump Set At:
Static Level: 36
Final Level After Pumping: 180
Recommended Pump Depth: 180
Pumping Rate: 6
Flowing Rate:
Recommended Pump Rate: 6
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934914032
Test Type: Recovery
Test Duration: 60
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396208
Test Type: Recovery
Test Duration: 30
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934656585
Test Type:	Recovery
Test Duration:	45
Test Level:	36
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934113011
Test Type:	Recovery
Test Duration:	15
Test Level:	107
Test Level UOM:	ft

Water Details

Water ID:	934036688
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	212
Water Found Depth UOM:	ft

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24 ***3 of 3*** ***SSW/211.7*** ***87.9 / -2.00*** ***lot 36 con 3 ON*** ***WWIS***

Well ID:	1534056	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/23/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	1
Audit No:	265557	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	036
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534056.pdf

Bore Hole Information

Bore Hole ID:	10543171	***Elevation:***	88.564727
DP2BR:	11	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	448853.3
Code OB Desc:	Bedrock	***North83:***	4993400
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	8/26/2003	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932924945
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 11
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932924946
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11
Formation End Depth: 87
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933240944
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961534056
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11091741
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930098172
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930098171
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991534056
Pump Set At:	
Static Level:	7
Final Level After Pumping:	60
Recommended Pump Depth:	60
Pumping Rate:	25
Flowing Rate:	
Recommended Pump Rate:	25
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934113588
Test Type:	Recovery
Test Duration:	15
Test Level:	7
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934657162
Test Type:	Recovery
Test Duration:	45
Test Level:	7
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934397202
Test Type:	Recovery
Test Duration:	30
Test Level:	7
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934914609
Test Type:	Recovery
Test Duration:	60
Test Level:	7
Test Level UOM:	ft

Water Details

Water ID:	934036952
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	70
Water Found Depth UOM:	ft

Water Details

Water ID:	934036951
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	50
Water Found Depth UOM:	ft

---

25 ***1 of 3*** ***SSW/214.2*** ***87.9 / -2.00*** ***lot 36 con 3 ON*** ***WWIS***

Well ID:	1526527	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/25/1992
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3749
Casing Material:		***Form Version:***	1
Audit No:	123365	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	036
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1526527.pdf

Bore Hole Information

Bore Hole ID:	10048225	**Elevation:**	88.578895
DP2BR:	28	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448856.7
Code OB Desc:	Bedrock	**North83:**	4993399
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	8/20/1992	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931064416
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	28
Formation End Depth:	55
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931064415
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	28
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933111768
Layer:	1
Plug From:	6
Plug To:	30
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961526527
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10596795
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930084438
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526527
Pump Set At:
Static Level: 12
Final Level After Pumping:
Recommended Pump Depth: 50
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391531
Test Type: Recovery
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934107900
Test Type: Recovery
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Water Details

Water ID:	933485868
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	45
Water Found Depth UOM:	ft

25 **2 of 3** **SSW/214.2** **87.9 / -2.00** **lot 36 con 3 ON** **WWIS**

Well ID:	1529354	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	3/10/1997
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	6455
Casing Material:		**Form Version:**	1
Audit No:	176417	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	036
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529354.pdf

Bore Hole Information

Bore Hole ID:	10050890	**Elevation:**	88.578895
DP2BR:	16	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448856.7
Code OB Desc:	Bedrock	**North83:**	4993399
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	2/27/1997	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931072474
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD

Mat3:
Mat3 Desc:
Formation Top Depth: 16
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072473
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 5
Formation End Depth: 16
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072472
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933114341
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961529354
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10599460
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID:	930088834
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	30
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930088833
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:	991529354
Pump Set At:	
Static Level:	2
Final Level After Pumping:	8
Recommended Pump Depth:	20
Pumping Rate:	50
Flowing Rate:	
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934390537
Test Type:	Draw Down
Test Duration:	30
Test Level:	8
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934659147
Test Type:	Draw Down
Test Duration:	45
Test Level:	8
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934908237
Test Type:	Draw Down
Test Duration:	60
Test Level:	8
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934115569
Test Type:	Draw Down
Test Duration:	15
Test Level:	8
Test Level UOM:	ft

Water Details

Water ID:	933489306
Layer:	1
Kind Code:	4
Kind:	MINERIAL
Water Found Depth:	27
Water Found Depth UOM:	ft

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25 ***3 of 3*** ***SSW/214.2*** ***87.9 / -2.00*** ***lot 36 con 3 ON*** ***WWIS***

Well ID:	1529610	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/17/1997
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	6455
Casing Material:		***Form Version:***	1
Audit No:	180702	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	036
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529610.pdf

Bore Hole Information

Bore Hole ID:	10051145	***Elevation:***	88.578895
DP2BR:	26	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	448856.7
Code OB Desc:	Bedrock	***North83:***	4993399
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	8/20/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931073303
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3: 14
Mat3 Desc: HARDPAN
Formation Top Depth: 20
Formation End Depth: 26
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073302
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 88
Mat2 Desc: THICK
Mat3:
Mat3 Desc:
Formation Top Depth: 7
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073301
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073304

Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	78
Mat2 Desc:	MEDIUM-GRAINED
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	26
Formation End Depth:	40
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114635
Layer:	1
Plug From:	0
Plug To:	28
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529610
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599715
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089278
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	40
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089277
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	28
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991529610
Pump Set At:	
Static Level:	5
Final Level After Pumping:	25
Recommended Pump Depth:	30
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934116179
Test Type:	Draw Down
Test Duration:	15
Test Level:	15
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934909269
Test Type:	Draw Down
Test Duration:	60
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934391151
Test Type:	Draw Down
Test Duration:	30
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934660732
Test Type:	Draw Down
Test Duration:	45
Test Level:	25
Test Level UOM:	ft

Water Details

Water ID:	933489625
Layer:	1
Kind Code:	4
Kind:	MINERIAL
Water Found Depth:	36
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	1 of 1	ENE/220.1	88.9 / -1.00	lot 35 con 2 ON	WWIS

Well ID:	1513222	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/14/1973
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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	035
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Bore Hole Information

Bore Hole ID:	10035210	**Elevation:**	88.79232
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	o	**East83:**	449644.7
Code OB Desc:	Overburden	**North83:**	4994324
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	5/7/1973	**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:	931022727
Layer:	3
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12
Formation End Depth:	47
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931022726
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022728
Layer: 4
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 47
Formation End Depth: 53
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022729
Layer: 5
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 53
Formation End Depth: 59
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931022725
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0

Formation End Depth:	1
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961513222
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10583780
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930062397
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	59
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513222
Pump Set At:	
Static Level:	8
Final Level After Pumping:	25
Recommended Pump Depth:	30
Pumping Rate:	15
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:	No

Draw Down & Recovery

Pump Test Detail ID:	934896527
Test Type:	Draw Down
Test Duration:	60
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934639045
Test Type:	Draw Down

Test Duration: 45
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378047
Test Type: Draw Down
Test Duration: 30
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934098934
Test Type: Draw Down
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Water Details

Water ID: 933468727
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 57
Water Found Depth UOM: ft

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27 | **1 of 1** | **W/227.8** | **89.9 / 0.00** | **lot 34 con 3 ON** | **WWIS**

Well ID: 1533871
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 257336
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: 7/31/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 1414
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 034
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533871.pdf

Bore Hole Information

Bore Hole ID: 10542986
DP2BR: 46
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Elevation: 87.905563
Elevrc:
Zone: 18
East83: 448286.3
North83: 4994040

Open Hole:
Cluster Kind:
Date Completed: 7/25/2003
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock Materials Interval

Formation ID: 932924460
Layer: 1
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 0
Formation End Depth: 14
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932924461
Layer: 2
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 14
Formation End Depth: 46
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932924462
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 46
Formation End Depth: 82
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	933240770
Layer:	1
Plug From:	0
Plug To:	51
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961533871
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	11091556
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930097771
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930097770
Layer:	1
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	8
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930097772
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991533871
Pump Set At:	
Static Level:	25
Final Level After Pumping:	82
Recommended Pump Depth:	70
Pumping Rate:	25
Flowing Rate:	
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934914028
Test Type:	Recovery
Test Duration:	60
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934113007
Test Type:	Recovery
Test Duration:	15
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934656581
Test Type:	Recovery
Test Duration:	45
Test Level:	25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934396204
Test Type:	Recovery
Test Duration:	30
Test Level:	25
Test Level UOM:	ft

Water Details

Water ID:	934036684
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70
Water Found Depth UOM:	ft

28	***1 of 1***	***NNE/241.7***	***89.0 / -0.86***	***lot 34 con 3 ON***	***WWIS***

Well ID:	1516795	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Livestock	**Date Received:**	11/27/1978
Sec. Water Use:	Domestic	**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
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	034
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516795.pdf

Bore Hole Information

Bore Hole ID:	10038690	**Elevation:**	88.597999
DP2BR:	16	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	449080.7
Code OB Desc:	Bedrock	**North83:**	4994522
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10/12/1978	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931033188
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	14
Mat2 Desc:	HARDPAN
Mat3:	12
Mat3 Desc:	STONES
Formation Top Depth:	0
Formation End Depth:	16
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931033189

Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	16
Formation End Depth:	60
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961516795
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10587260
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930067932
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:	991516795
Pump Set At:	
Static Level:	8
Final Level After Pumping:	25
Recommended Pump Depth:	25
Pumping Rate:	15
Flowing Rate:	
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934102364

Test Type: Draw Down
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934900517
Test Type: Draw Down
Test Duration: 60
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381526
Test Type: Draw Down
Test Duration: 30
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934643033
Test Type: Draw Down
Test Duration: 45
Test Level: 25
Test Level UOM: ft

Water Details

Water ID: 933473157
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

Water Details

Water ID: 933473156
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45
Water Found Depth UOM: ft

Unplottable Summary

Total: 20 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 35 Con 2	Rideau ON	
CA	Village Square Mall	Regional Road No. 13	Ottawa ON	
CA	BOT CONSTRUCTION LIMITED	HWY. #416, CRANBERRY CREEK	RIDEAU TWP. ON	
CONV	Brandon James Amell	Highway 416	Ottawa ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	K4M 1A5
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	K4M 1A5
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	K4M 1A5
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	K4M 1A5
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	K4M 1A5
GEN	RIDEAU VALLEY CONSERVATION AUTHORITY	LOT 36, CONCESSION 2	RIDEAU TOWNSHIP ON	
GEN	RIDEAU VALLEY CONSERVATION AUTHOR	CONC. 2, LOT 36	RIDEAU TWP. ON	
SPL	CONSTRUCTION COMPANY	REGION RD #13, BAXTER CONSERVATION AREA TRANSPORT TRUCK (CARGO)	RIDEAU TOWNSHIP ON	

WWIS	con 3	ON
WWIS	lot 35	ON
WWIS	lot 36	ON

Unplottable Report

Site:
Lot 35 Con 2 Rideau ON

Database: AAGR

Type:	Pit
Region/County:	Ottawa-Carleton
Township:	Rideau
Concession:	2
Lot:	35
Size (ha):	0.05
Landuse:	
Comments:	

Site: ***Village Square Mall***
Regional Road No. 13 Ottawa ON

Database: CA

Certificate #:	7752-4VBMMJ
Application Year:	01
Issue Date:	4/2/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	The Village Square Mall (Barrhaven) Inc.
Client Address:	17 Fitzgerald Road
Client City:	Nepean
Client Postal Code:	K2H 9G1
Project Description:	Storm and sanitary sewers to be constructed on Greenbank Road
Contaminants:	
Emission Control:	

Site: ***BOT CONSTRUCTION LIMITED***
HWY. #416, CRANBERRY CREEK RIDEAU TWP. ON

Database: CA

Certificate #:	4-0022-97-
Application Year:	97
Issue Date:	3/11/1997
Approval Type:	Industrial wastewater
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	DEWATERING FACILITY FOR DREDGED MATERIAL
Contaminants:	
Emission Control:	

Site: ***Brandon James Amell***
Highway 416 Ottawa ON

Database: CONV

File No:		***Location:***	
Crown Brief No:		***Region:***	
Court Location:	Ottawa	***Ministry District:***	
Publication City:			
Publication Title:	Diesel Truck Owner fined $500 for an Environmental Protection Act Violation		
Act:	Environmental Protection Act		
Act(s):			

First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed: Brandon Amell was convicted of one violation under the Environmental Protection Act and was fined $500 plus a victim fine surcharge of $110 and was given 3 months to pay.
Description: The conviction relates tohindering or obstructing a Provincial Officer in the lawful performance of his duties by evading the Provincial Officer.
Background: Drive Clean is an Ontario Environmental Protection Act program that is enforced by the Ministry of the Environment, Conservation and Parks and is designed to reduce smog-causing pollutants from motor vehicles.
On April 11, 2018, ministry officers were monitoring traffic on Highway 416 in Ottawa for the purpose of performing roadside inspections to enforce the Drive Clean program. The ministry officers were wearing visual identification enforcement officer uniforms and were driving in a ministry patrol vehicle that was equipped with a red-light package.
On this date, the ministry officer signalled a white GMC diesel pickup truck to stop for an inspection by activating the red-light package on the ministry vehicle.
Brandon James Amell was driving the pickup and failed to immediately bring the vehicle to a safe stop, but instead accelerated away and took a highway off ramp.
It is understood that Mr. Amell did this because he was concerned about being caught driving while under suspension.
The ministry's Investigations and Enforcement Branch investigated and laid charges resulting in one conviction.
URL: https://news.ontario.ca/ene/en/2019/10/diesel-truck-owner-fined-500-for-an-environmental-protection-act-violation.html

Additional Details

Publication Date: October 15, 2019 4:00 P.M.
Count:
Act:
Regulation:
Section:
Act/Regulation/Section:
Date of Offence: On or about April 11, 2018
Date of Conviction: September 18, 2019
Date Charged:
Charge Disposition:
Fine: $500
Synopsis:

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 913150
SIC Description:

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 2012

PO Box No:
Country:
Choice of Contact:

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 913150
SIC Description: Municipal Regulatory Services

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100 ***PO Box No:***
Status: ***Country:***
Approval Years: 2011 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 913150
SIC Description: Municipal Regulatory Services

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100 ***PO Box No:***
Status: ***Country:***
Approval Years: 2010 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 913150
SIC Description: Municipal Regulatory Services

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100 ***PO Box No:***
Status: ***Country:***
Approval Years: 2009 ***Choice of Contact:***

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 913150
SIC Description: Municipal Regulatory Services

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON K4M 1A5

Database: ***GEN***

Generator No: ON1035100
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON K4M 1A5

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 913150
SIC Description: 913150

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Randy Wright
Phone No Admin: 613-489-3060 Ext.

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON K4M 1A5

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 913150
SIC Description: 913150

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Randy Wright
Phone No Admin: 613-489-3060 Ext.

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON K4M 1A5

Database: ***GEN***

Generator No: ON1035100
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON K4M 1A5

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 913150
SIC Description: 913150

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Randy Wright
Phone No Admin: 613-489-3060 Ext.

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHORITY***
LOT 36, CONCESSION 2 RIDEAU TOWNSHIP ON

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 99,00,01,02,03,04,05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 8264
SIC Description: REC./CULTURE ADMIN.

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

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***RIDEAU VALLEY CONSERVATION AUTHOR***
CONC. 2, LOT 36 RIDEAU TWP. ON

Database: ***GEN***

Generator No: ON1035100
Status:
Approval Years: 92,93,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 8264
SIC Description: REC./CULTURE ADMIN.

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***CONSTRUCTION COMPANY***
REGION RD #13, BAXTER CONSERVATION AREA TRANSPORT TRUCK (CARGO) RIDEAU TOWNSHIP ON

Database: ***SPL***

Ref No: 66774
Site No:
Incident Dt: 2/6/1992
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Soil Contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/6/1992
Dt Document Closed:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20612
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:

Incident Reason: WELD/SEAM FAILURE
Source Type:
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: CLOUTIER CONSTRUCTION LTD-22L DIESEL FUEL TO GRAVEL ON SIDE ROAD.
Contaminant Qty:

Site:
con 3 ON

Database:
WWIS

Well ID: 1107124
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 245882
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/25/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 4536
Form Version: 1
Owner:
Street Name:
County: 11
Municipality: KARS TOWNSHIP
Site Info:
Lot:
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10542727
DP2BR: 100
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/25/2003
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 932923594
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 104
Formation End Depth: 140
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932923592
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 0
Formation End Depth: 100
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932923593
Layer: 2
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3:
Mat3 Desc:
Formation Top Depth: 100
Formation End Depth: 104
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933240517
Layer: 1
Plug From: 0
Plug To: 104
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961107124
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 11091297
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930009858
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:

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

Construction Record - Casing

Casing ID: 930009857
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991107124
Pump Set At:
Static Level: 12
Final Level After Pumping:
Recommended Pump Depth: 100
Pumping Rate: 4
Flowing Rate:
Recommended Pump Rate: 6
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 30
Flowing: No

Site:
lot 35 ON

Database: ***WWIS***

Well ID: 1104166
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 15181
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: 11/19/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 4536
Form Version: 1
Owner:
Street Name:
County: 11
Municipality: KARS TOWNSHIP
Site Info:
Lot: 035
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10004102
DP2BR: 29
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 10/30/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 930917875
Layer: 6
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 29
Formation End Depth: 260
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930917873
Layer: 4
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12
Formation End Depth: 14
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930917870
Layer: 1
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930917871
Layer: 2

Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 5
Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930917872
Layer: 3
Color:
General Color:
Mat1: 13
Most Common Material: BOULDERS
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 8
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930917874
Layer: 5
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 14
Formation End Depth: 29
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961104166
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10552672
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930005764
Layer: 2
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 260
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930005763
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: 991104166
Pump Set At:
Static Level: 26
Final Level After Pumping:
Recommended Pump Depth: 200
Pumping Rate: 3
Flowing Rate:
Recommended Pump Rate: 3
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933429628
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 260
Water Found Depth UOM: ft

Site:
lot 36 ON

Database:
WWIS

Well ID: 1105865
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 096476
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:

Data Entry Status:
Data Src: 1
Date Received: 1/25/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 1582
Form Version: 1
Owner:
Street Name:
County: 11
Municipality: KARS TOWNSHIP
Site Info:
Lot: 036
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:

Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10005771
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 9/21/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 930924237
Layer: 6
Color: 7
General Color: RED
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3:
Mat3 Desc:
Formation Top Depth: 225
Formation End Depth: 245
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930924234
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 93
Formation End Depth: 105
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930924233
Layer: 2
Color: 7
General Color: RED
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 18

Mat2 Desc: SANDSTONE
Mat3: 17
Mat3 Desc: SHALE
Formation Top Depth: 15
Formation End Depth: 93
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930924236
Layer: 5
Color: 4
General Color: GREEN
Mat1: 22
Most Common Material: GREENSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 185
Formation End Depth: 225
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930924235
Layer: 4
Color: 7
General Color: RED
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 105
Formation End Depth: 185
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930924232
Layer: 1
Color: 7
General Color: RED
Mat1: 17
Most Common Material: SHALE
Mat2: 05
Mat2 Desc: CLAY
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961105865
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID:	10554341
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930008149
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:	991105865
Pump Set At:	
Static Level:	18
Final Level After Pumping:	
Recommended Pump Depth:	150
Pumping Rate:	2
Flowing Rate:	
Recommended Pump Rate:	2
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933431343
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	93
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 2020

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

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: 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-Jun 30, 2020

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 2018

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 2018

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors: 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, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Jun 30, 2020

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 -Dec 2020

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Nov 2020

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-Dec 31, 2020

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 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

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

Government Publication Date: Jul 31, 2020

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-Dec 31, 2020

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-Dec 31, 2020

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- Dec 31, 2020

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-Oct 31, 2020

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, 2019

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Sep 2020

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 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Jul 31, 2020

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-Jul 31, 2020

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 2018

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*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: 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 2020

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, 2018

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 Canada Energy Regulator (CER) - previously 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-Sep 30, 2020

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-Aug 31, 2020

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-Jun 2020

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-Dec 31, 2020

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: Oct 2011-Dec 31, 2020

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Oct 31, 2020

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-Dec 31, 2020

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-Nov 2020

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-Jun 30, 2020

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

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

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

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, 2017

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 2019

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: Jul 31, 2020

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-Dec 31, 2020

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: Apr 30, 2020

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.

Ryan Vanden Tillaart

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Wednesday, February 24, 2021 3:31 PM
To: Zaeem Khalid
Subject: RE: TSSA Public Record Search Request for 2095 Dilworth Road, Kars, Ontario and surrounding properties.

Good afternoon,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thanks,

Sherees Thompson | Public Information Agent
Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3363 | Fax: +1-416-231-6183 | E-Mail: sthompson@tssa.org
www.tssa.org

From: Zaeem Khalid <zkhalid@dstgroup.com>
Sent: February 24, 2021 2:01 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Public Record Search Request for 2095 Dilworth Road, Kars, Ontario and surrounding properties.

Good morning,

I would like to request a database and records search for the following properties:

- 2095 Dilworth Road, Kars, Ontario

- 7421 Reevecraig Rd. N., Kars, Ontario
- 7436 Reevecraig Rd. N., Kars, Ontario
- 7405 – 7425 Third Line Rd. S. Kars, Ontario

Thank you,

Zaeem Khalid, *M.Eng.*
Engineering Intern

DST CONSULTING ENGINEERS INC.
A Division of **Englobe**
203 - 2150 Thurston Drive
Ottawa ON, K1G 5T9
Canada

T: 1.877.300.4800 ,388
M: 1.613.402.4240
F: 1.888.979.6772
E: zkhalid@dstgroup.com
W: www.dstgroup.com | www.englobecorp.com

Please consider the environment before printing this e-mail.

NHIC Data

To work further with this data select the content and copy it into your own word or excel documents.

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1107759	NATURAL AREA	REEVECRAIG SWAMP FOREST					18VQ4993	
1107759	NATURAL AREA	Cranberry Creek					18VQ4993	
1107759	SPECIES	Midland Painted Turtle	Chrysemys picta marginata			SC	18VQ4993	
1107759	SPECIES	Bobolink	Dolichonyx oryzivorus		THR	THR	18VQ4993	
1107749	NATURAL AREA	Cranberry Creek					18VQ4893	
1107749	SPECIES	Midland Painted Turtle	Chrysemys picta marginata			SC	18VQ4893	
1107749	SPECIES	Bobolink	Dolichonyx oryzivorus		THR	THR	18VQ4893	
1107750	NATURAL AREA	Cranberry Creek					18VQ4894	
1107750	SPECIES	Midland Painted Turtle	Chrysemys picta marginata			SC	18VQ4894	
1107750	SPECIES	Bobolink	Dolichonyx oryzivorus		THR	THR	18VQ4894	
1107760	NATURAL AREA	REEVECRAIG SWAMP FOREST					18VQ4994	
1107760	NATURAL AREA	Cranberry Creek					18VQ4994	
1107760	SPECIES	Bobolink	Dolichonyx oryzivorus		THR	THR	18VQ4994	
1107760	SPECIES	Butternut	Juglans cinerea		END	END	18VQ4994	
1107760	SPECIES	Snapping Turtle	Chelydra serpentina		SC	SC	18VQ4994	

Environment and Climate Change Canada | Environnement et Changement climatique Canada

Fontaine Building
200 Sacré Coeur Blvd. 13th Floor
Gatineau, Québec
K1A 0H3

Your File Votre référence
2021-004104 / 02101208.0
Our File Notre référence
E-2020-01805

March 29th, 2021

Mr. Salim Eid
DST Consulting Engineers Inc.
2150 Thurston Drive, Suite 203
Ottawa, Ontario
K1G 5T9

Dear Mr. Eid,

This letter is in response to your request under the *Access to Information Act* for:

> *"*Owner: {Dilworth Development Inc.}
>
> Property: 2095 Dilworth Road, Kars, ON K0A 2E0
>
> Database search for environmental concerns (general correspondence, occurrence reports and abatements), orders, tanks, spills, investigations, prosecutions and waste generators at the Property. This includes certificates of approval for air emissions, water, sewage, wastewater, industrial discharge, waste systems and pesticide licenses for the Property.
>
> Authorization: {Walter Griesseier}*"*

After a thorough search, no records were found concerning this request.

Please be advised that you are entitled to file a complaint with the Information Commissioner of Canada concerning the processing of your request within sixty days of the receipt of this notice. In the event you decide to avail yourself of this right, your notice of complaint should be addressed to:

Information Commissioner of Canada
30 Victoria Street
Gatineau, Québec K1A 1H3

…/2

Canada

If you have any questions regarding this request, please do not hesitate to contact Laurence Gravel-Godin by email at laurence.gravel-godin@canada.ca.

Yours sincerely,

Original signed by:

Shelley Emmerson
Director, Access to Information and Privacy