



Phase One Environmental Site Assessment 1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario

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*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Legal Notification

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Table of Contents

Legal Notification.....	i
List of Figures.....	vi
List of Appendices	vii
Executive Summary	viii
1.0 Introduction.....	1
1.1 Objective.....	1
1.2 Phase One Property Information.....	1
2.0 Scope of Investigation	3
3.0 Records Review	4
3.1 Phase One ESA Study Area Determination.....	4
3.2 First Developed Use Determination	4
3.3 Fire Insurance Plans.....	4
3.4 Chain of Title.....	4
3.5 City Directories	4
3.6 Environmental Reports.....	5
3.7 Environmental Source Information	6
3.7.1 Ontario Ministry of the Environment, Conservation and Parks Records	6
3.7.2 Historical Land Use Inventory.....	6
3.7.3 Environmental Registry	6
3.7.4 Environmental Access.....	6
3.7.5 Hazardous Waste Information Network	6
3.7.6 Records of Site Condition	7
3.7.7 Coal Gasification Plants	7
3.7.8 PCB Storage Sites.....	7
3.7.9 Waste Disposal Sites.....	7
3.7.10 Former Industrial Sites	7
3.7.11 Street Directories	7
3.8 EcoLog ERIS Database Search	7

3.9 Physical Setting Sources 8

3.9.1 Aerial Photographs 8

3.9.2 Topography, Hydrology, Geology 8

3.9.3 Fill Materials 9

3.9.4 Water Bodies and Areas of Natural Significance 9

3.9.5 Well Records 9

3.10 Site Operating Records 9

4.0 Interviews 10

5.0 Site Reconnaissance 11

5.1 General Requirements 11

5.2 Specific Observations at the Phase One Property 11

5.2.1 Buildings and Structures 11

5.2.2 Site Utilities and Services 11

5.3 Storage Tanks 12

5.3.1 Underground Storage Tanks 12

5.3.2 Above Ground Storage Tanks 12

5.4 Chemical Storage Handling and Floor Condition 12

5.5 Areas of Stained Soil, Pavement or Stressed Vegetation 12

5.6 Fill and Debris 12

5.7 Air Emissions 13

5.8 Odours 13

5.9 Noise 13

5.10 Other Observations 13

5.11 Special Attention Items, Hazardous Building Materials and Designated Substances 13

5.11.1 Asbestos 13

5.11.2 Ozone Depleting Substances (ODSs) 13

5.11.3 Lead 13

5.11.4 Mercury 14

5.11.5 Polychlorinated Biphenyls (PCB) 14

5.11.6 Urea Formaldehyde Foam Insulation 14

5.11.7 Radon..... 15

5.11.8 Mould 15

5.12 Other Substances..... 15

5.13 Processing and Manufacturing Operations 15

5.14 Hazardous Materials Use and Storage..... 15

5.15 Vehicle and Equipment Maintenance Areas 15

5.16 Oil/Water Separators..... 16

5.17 Sewage and Wastewater Disposal..... 16

5.18 Solid Waste Generation, Storage & Disposal..... 16

5.19 Liquid Waste Generation, Storage & Disposal..... 16

5.20 Unidentified Substances 16

5.21 Hydraulic Lift Equipment 16

5.22 Mechanical Equipment..... 16

5.23 Abandoned and Existing Wells 16

5.24 Roads, Parking Facilities and Right of Ways 16

5.25 Adjacent and Surrounding Properties 16

5.13 Enhanced Investigation Property 17

5.14 Summary and Written Description of Investigation..... 17

6.0 Review and Evaluation of Information 18

6.1 Current and Past Uses 18

6.2 Potentially Contaminating Activity 18

6.3 Areas of Potential Environmental Concern 18

6.4 Phase One Conceptual Site Model 19

6.4.1 Buildings and Structures..... 19

6.4.2 Water Bodies and Groundwater Flow Direction 20

6.4.3 Areas of Natural Significance..... 20

6.4.4 Water Wells..... 20

6.4.5 Potentially Contaminating Activity..... 20



*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

6.4.6 Areas of Potential Environmental Concern 20

6.4.7 Subsurface Stratigraphy 21

6.4.8 Uncertainty Analysis 21

7.0 Conclusions 22

8.0 References 23

9.0 Limitation of Liability, Scope of Report, and Third Party Reliance 25

10.0 Signatures 26



List of Figures

- Figure 1 – Site Location Plan
- Figure 2 – Phase One Conceptual Site Model
- Figure 3 – Site Layout

List of Appendices

Appendix A: Qualifications of Assessors

Appendix B: Survey Plan

Appendix C: Figures

Appendix D: Fire Insurance Plans, Title Search, Municipal Records & Provincial Records

Appendix E: EcoLog ERIS Report

Appendix F: Aerial Photographs

Appendix G: Site Photographs

Executive Summary

EXP Services Inc. (EXP) was retained by DCR Phoenix Group of Companies to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property was consisted of rural residential properties.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. It is understood that the report will be used to support a site plan application. EXP understands that the most recent use of the Phase One property is residential and that the proposed future use is also residential.

The Phase One property consists of the municipal addresses 1154, 1176, 1180, and 1208 Old Montreal Road in Ottawa, Ontario. The Phase One property is located within a residential/agricultural area on the south side of Old Montreal Road. The Phase One property has an area of approximately 5.6 hectares.

The Phase One property has the property identification numbers (PIN): 145260023, 145260025, 145260026, 145260028, and 145262280.

The legal description of the Phase One property is:

- 1154 Old Montreal Road – PT LT 28 CON 10S CUMBERLAND AS IN RR138993; OTTAWA
- 1176 Old Montreal Road – PT LT 27 CON 10S CUMBERLAND AS IN N752036 T/W RR133367; OTTAWA
- 1180 Old Montreal Road – PT LT 27 CON 10S CUMBERLAND PARTS 1,2 & 3, 50R6772 S/T RR133366; OTTAWA
- 1208 Old Montreal Road – FIRSTLY: PART LOT 27, CONCESSION 10S CUMBERLAND AS IN N759565; SECONDLY: PART LOT 27, CONCESSION 10S CUMBERLAND, PART 1, PLAN 4R31597; T/W RR133367 CITY OF OTTAWA

The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid are Zone 18, 463549 m E and 5038049 m N. The UTM coordinates are based on measurements from Google Earth Pro, published by the Google Limited Liability Company (LLC). The accuracy of the centroid is estimated to be less than 10 m.

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a farm in 1951 under the 1208 Old Montreal Road civic address. In the 1970s a portion of the property was severed, and three residences were developed at 1172, 1176, and 1180 Old Montreal Road. The residence at 1172 Old Montreal Road was not part of the Phase One property. The residence at 1154 Old Montreal Road was built in the 1960s.

There are records for 25 potable water wells within the Phase One study area. The well records date between 1954 to 2004. All of the records were for domestic wells, some of which are still in use. The proposed development will be on municipal services.

There are no water bodies on the subject site. The nearest surface water body to the subject site is a tributary to Cardinal Creek, located approximately 60 m south of the Phase One property. The tributary discharges to the Cardinal Creek 0.5 kilometres downstream to the southwest.

There are no areas of natural or scientific interest (ANSI) within the Phase One study area.

The APEC and PCA are described below:

Table EX.1: Areas of Potential Environmental Concern

Area 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 Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Area near dispensing area for former fuel AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #2	Area around furnace oil AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #3	Area around former furnace oil AST on 1176 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #4	Area around furnace oil AST on 1180 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #5	Fill material present at 1208 Old Montreal Road	PCA #30 – Importation of fill of unknown quality	On-Site	PHC and BTEX, metals	Soil
APEC #6	Area around generator AST at the communications tower on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Mark McCalla, M.Sc., P.Geo., recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.

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

1.0 Introduction

EXP Services Inc. (EXP) was retained by DCR Phoenix Group of Companies to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property was consisted of rural residential properties.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 9 of this report.

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

1.1 Objective

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. It is understood that the report will be used to support a site plan application.

EXP understands that the most recent use of the Phase One property is residential and that the proposed future use is residential. Consequently, since the proposed future use of the property is the same as its previous use a Record of Site Condition (RSC) is not required.

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

1.2 Phase One Property Information

The Phase One property consists of the municipal addresses 1154, 1176, 1180, and 1208 Old Montreal Road in Ottawa, Ontario. The Phase One property is located within a residential/agricultural area on the south side of Old Montreal Road. The Phase One property has an area of approximately 5.6 hectares.

A Site Location Plan is provided as Figure 1 and a Site Plan is provided as Figure 2 in Appendix C.

The Phase One property has the property identification numbers (PIN): 145260023, 145260025, 145260026, 145260028, and 145262280.

The legal description of the Phase One property is:

- 1154 Old Montreal Road – PT LT 28 CON 10S CUMBERLAND AS IN RR138993; OTTAWA
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- 1208 Old Montreal Road – FIRSTLY: PART LOT 27, CONCESSION 10S CUMBERLAND AS IN N759565; SECONDLY: PART LOT 27, CONCESSION 10S CUMBERLAND, PART 1, PLAN 4R31597; T/W RR133367 CITY OF OTTAWA

The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid are Zone 18, 463549 m E and 5038049 m N. The UTM coordinates are based on measurements from Google Earth Pro, published by the Google Limited Liability Company (LLC). The accuracy of the centroid is estimated to be less than 10 m.

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The property owner of all of the civic addresses is Phoenix Harbour Old Montreal Road Inc. Authorization to proceed with this investigation was provided by Michael Boucher, Manager of Planning, Phoenix Homes. Contact information for Mr. Boucher is 18 Bentley Avenue, Ottawa, Ontario, K2E 6T8.

2.0 Scope of Investigation

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

- Reviewing the historical occupancy of the Phase One property through the use of available archived and relevant municipal and business directories, fire insurance plans (FIPs), topographical maps, and aerial photographs;
- Reviewing municipal and provincial records to determine whether activities that have occurred within the Phase One study area pose a potential environmental concern to the Phase One property;
- Obtaining an EcoLog Environmental Risk Information Services Ltd. (ERIS) report for the Phase One property and surrounding properties within a 250-metre radius of the Phase One property;
- Reviewing available geological maps, well records and utility maps for the vicinity of the Phase One property;
- Obtaining a search of land title and assessment rolls for the Phase One property;
- Conducting at least one reconnaissance of the Phase One property and surrounding properties within a 250-metre radius of the Phase One property in order to identify the presence of actual and/or potential environmental contaminants or concerns of significance;
- Conducting interviews with designated representative(s) as a resource for current and historical information;
- Reviewing the current use of the Phase One property and any land use practices that may have impacted its environmental condition;
- Reviewing the current use of the surrounding properties and any land use practices that may have impacted the environmental condition of the Phase One property; and,
- Preparing a report to document the findings.

In completing the scope of work, EXP did not conduct any intrusive investigations, including sampling, analyses, or monitoring. EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others.

3.0 Records Review

3.1 Phase One ESA Study Area Determination

The Phase One study area comprises the Phase One property and surrounding properties wholly or partly within 250 metres of the property boundaries. The 250-metre radius was used to gain an understanding of the current and past uses of surrounding properties to determine whether such uses may have contributed to subsurface environmental impacts at the Phase One property. At the time of the site reconnaissance, land usage within 250 metres of the Site was residential to the north and west, and agricultural to the east and south.

The properties at 1154, 1176, and 1180 Old Montreal Road are zoned RR, rural residential zones. The property at 1208 Old Montreal Road is zoned RU, rural countryside. The surrounding properties in the Phase One study area are also zoned primarily for residential use. The property south adjacent to the Phase One property, long the creek embankment is zoned open space.

The Phase One study area is shown on Figure 3 in Appendix C.

3.2 First Developed Use Determination

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a farm in 1951 under the 1208 Old Montreal Road civic address. In the 1970s a portion of the property was severed, and three residences were developed at 1172, 1176, and 1180 Old Montreal Road. The residence at 1172 Old Montreal Road was not part of the Phase One property. The residence at 1154 Old Montreal Road was built in the 1960s.

3.3 Fire Insurance Plans

EXP reviewed the Catalogue of Canadian Fire Insurance Plans 1875 – 1975. No fire insurance plans depicting the Phase One study area were available for review.

3.4 Chain of Title

A chain of title was requested from Read Abstracts Limited for the Phase One property. A chain of title search provides a list of property owners and the dates when they owned them. The Phase One property consists of the following property identification numbers: 14526-0023, 14526-0025, 14526-0026, 14526-2276, 14526-2282. The properties were first registered in 1868 and were owned by individuals until 2017 when the current owner Phoenix Harbour Old Montreal Road Inc. purchased them. No environmental concerns were identified during the review of the title search. The city directory search is presented in Appendix D.

3.5 City Directories

On February 2, 2021, records pertaining to the site were requested from the EcoLog Environmental Risk Information Services (or EcoLog ERIS) for the municipal street directories in the Phase One study area. EcoLog ERIS is an environmental database and information service provider.

As a result of the COVID-19 pandemic, the government has closed various institutions which severely limits EXP's ability to access government libraries and archives and prepare a detailed historical search of the Site and surrounding areas, as such the city directories were unavailable for review.

Based on the findings of the previous ESA and current observations of the surrounding properties (section 5.25) EXP does not anticipate any PCAs on nearby properties.

3.6 Environmental Reports

The following reports were reviewed for the Phase One property as part of the Phase One ESA:

1. EXP Services Inc., *Phase I Environmental Site Assessment, 1154, 1172, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario, August 2016.*

The Phase I ESA report identified four aboveground fuel tanks (ASTs) at the Phase One property. Two were located at 1208 Old Montreal Road; one in the loft of the aluminum barn for farm vehicle refuelling and one in the basement of the farmhouse for heating. ASTs used for heating were also located in 1176 and 1180 Old Montreal Road.

The report identified the AST in the barn as a potentially contaminating activity (PCA). Potential impact to soil and groundwater near the former fuel above ground storage tank (AST) location was identified as an area of potential environmental concern (APEC).

2. EXP Services Inc., *Phase II Environmental Site Assessment, 1208 Old Montreal Road, Ottawa, Ontario, September 2016.*

The 2016 Phase II ESA investigation was completed to address concerns identified in the Phase I ESA. The potential environmental concern identified was the presence of a former fuel AST and dispensing equipment near the farmhouse at 1208 Montreal Road. The investigation consisted of the advancement of ten boreholes in the vicinity of the former AST, eight of which were completed as monitoring wells. Soil and groundwater samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) and petroleum hydrocarbons (PHCs). Field observations during the drilling program indicated impacted soil and groundwater at BH7. Three boreholes were drilled approximately 5 m to the north, south, and west of BH7 to delineate soil and groundwater impact. The impact could not be further delineated to the east due to the location of the barn. Impacted soil was observed in three of the boreholes and impacted groundwater was found in one monitoring well. An additional six boreholes were drilled further from the observed soil and groundwater impacts. No impact was observed in any of the six additional boreholes. The depth to groundwater was observed to be 1.2 to 5.8 m bgs.

Based on the analytical results, petroleum impacted soil and groundwater were found at the location of the former tractor refuelling area of the site. The likely area of impacted soil has been estimated to be 600 m². Assuming an estimated thickness of impact of 1.5 m, the resulting volume of impacted soil in this zone is 900 m³. The worst-case area of impacted soil has been estimated to be 1,050 m². Assuming an estimated thickness of impact of 1.5 m, the resulting volume of impacted soil in the worst-case zone is 1,575 m³.

The previously identified area of impacted soil and groundwater is an area of potential environmental concern (APEC 1).

Review of the reports identified the area of the impacted soil and groundwater in the vicinity of the fuel AST in the barn as a PCA (**PCA 1**). The fuel oil ASTs located in the basements of 1208 and 1180 Old Montreal Road, and the former fuel oil AST located in the basement of 1176 Old Montreal Road constitute **PCA 2, 3, and 4**, respectively.

3. EXP Services Inc., *Geotechnical Investigation, 1154 - 1208 Old Montreal Road, Ottawa, Ontario, March 27, 2018.*

The geotechnical investigation consisted of drilling 12 boreholes to 7 m to 23.3 m depth. The boreholes revealed that the surficial topsoil and/or fill/silty sand is underlain by silty clay crust, which extends to 3 m to 5.6 m depth. The grey silty clay in Boreholes 1, 3 and 7 is underlain by silty sand till, which extends to the entire depth investigated in these boreholes, i.e. 13.6 m to 23.3 m. Refusal to dynamic cone penetration test or to augering was met in Boreholes 3, 5, and 7 at 13.6 m to 23.3 m depth. The bedrock in the area is likely to be shale of the Rockcliffe Formation. The perched groundwater table at the site was established at 0.7 m to 1.5 m depth below the existing ground surface. The groundwater table at the site is estimated to be at a depth of 3 m to 5.5 m below the existing ground surface.

3.7 Environmental Source Information

Information pertaining to the Phase One property was obtained by reviewing documents that are available to the public through municipal and provincial sources. EXP did not identify the need to contact any federal agencies.

Written responses from regulatory agencies and copies of documents obtained via searches are provided in Appendix D.

3.7.1 Ontario Ministry of the Environment, Conservation and Parks Records

On January 28, 2021, records pertaining to the Phase One property were requested from the Ministry of the Environment, Conservation and Parks (MECP) through the *Freedom of Information and Protection of Privacy Act* (FOI). To date, no response has been received. If environmentally significant information is obtained from the MECP search, it will be provided as an addendum to this report.

A response from the Ministry was received September 12, 2016 as part of the Phase I ESA conducted in 2016. No records were found.

3.7.2 Historical Land Use Inventory

An HLUI request was made to the City of Ottawa February 9, 2021. A response from the City of Ottawa was received on March 26, 2021. No historical activities were identified on the Phase One property. A former landfill was identified at 1085 Watters Road, which is located approximately 35 m south of the Phase One property (PCA#11). The actual area of landfilling on that property would be across a creek at a minimum distance of 270 m from the Phase One property. Based on this, the former landfill does not contribute to an APEC on the Phase One property. A plumbing heating and air conditioning contractor was listed at 1313 Grand Chene Court in 2012 at a distance of 30 m from the Phase One property. This is a residence and commercial operations were not carried out at this address and therefore is not a concern. A copy of the response is provided in Appendix D.

3.7.3 Environmental Registry

On January 28, 2021, the MECP Environmental Registry website was searched for postings in the vicinity of the Phase One property, no records were found.

3.7.4 Environmental Access

On January 28, 2021 the MECP Environmental Access website was searched for postings within the Phase One study area.

- 1123 Old Montreal Road (50 m north) – A Certificate of Approval for municipal and private sewage works was issued to World Life Church for the construction of a stormwater management system (storm sewers and wet pond). Certificate 5012-66KQTM issued November 2004.
- Cardinal Creek Development (50 m north) – environmental Compliance Approval for municipal and private sewage works issued to Tamarack Corporation for the construction of storm sewers in the Cardinal Creek development. Certificate 4185-9LVSK2 issued July 2014, Certificate 7792-ASJR4M issued October 2017.

None of the records reviewed posed an environmental concern to the Phase One property.

3.7.5 Hazardous Waste Information Network

On January 28, 2021, the MECP Hazardous Waste Information Network (HWIN) website was searched for registered waste generators within the Phase One study area, no records were found.

3.7.6 Records of Site Condition

On January 28, 2021, the MECP Brownfields Registry website was searched for postings of Records of Site Condition within the Phase One study area. No records were found.

3.7.7 Coal Gasification Plants

Documents entitled *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario* prepared by the MECP and *Inventory of Coal Gasification Plant Waste Sites in Ontario* prepared by Intera Technologies Ltd. were reviewed. There were no coal gasification plants identified within the Phase One study area.

3.7.8 PCB Storage Sites

Documents entitled *National Inventory of PCBs in Use and PCB Wastes in Storage in Canada, 2003 Annual Report* prepared by Environment Canada and *Ontario Inventory of PCB Storage Sites* prepared by the MECP were reviewed. No records pertaining to PCB storage sites were identified within the Phase One study area.

3.7.9 Waste Disposal Sites

Documents entitled *Old Landfill Management Strategy, Phase 1, Identification of Sites, City of Ottawa, Ontario* prepared by Golder Associates Ltd. and *Waste Disposal Site Inventory* prepared by the MECP were reviewed. No former landfills or waste disposal sites were identified within the Phase One study area.

3.7.10 Former Industrial Sites

The document entitled *Mapping and Assessment of Former Industrial Sites; City of Ottawa* prepared by Intera Inc. was reviewed. No former industrial sites were identified within the Phase One study area.

3.7.11 Street Directories

A search of municipal street directories for properties within the Phase One study area was conducted by EcoLog Environmental Risk Information Services (or EcoLog ERIS). EcoLog ERIS is an environmental database and information service provider. No city directories were available for the Phase One study area.

3.8 EcoLog ERIS Database Search

A search of provincial and federal databases for records pertaining to the Phase One property and properties within the Phase One study area was conducted by EcoLog ERIS. EXP has confirmed neither the completeness nor the accuracy of the records that were provided. A summary of the more significant findings is provided below. A copy of the EcoLog ERIS report is provided in Appendix E.

Entries from the EcoLog ERIS report were reviewed and summarized below:

- The Certificate of Approval identified one entry for municipal and private sewage works. The World of Life Church (1123 Old Montreal Road), was issued certificate 5012-66KQTM in 2004;
- There were 24 records found in the Water Well Information System (WWIS) database for the Phase One study area. All of the records were for domestic wells. New development in the Phase One study area is now supplied with municipal services.

None of the records pose an environmental concern to the Phase One property.

3.9 Physical Setting Sources

3.9.1 Aerial Photographs

Aerial photographs dated 1945, 1965, 1976, 1991, 1999, 2005, 2015, and 2019 were available for review on the City of Ottawa website. Aerial photographs dated prior to 1945 were not available for review. The following table summarizes the development and land use history of the Phase One property and adjacent properties as depicted on the reviewed aerial photographs. Copies of the aerial photographs are provided in Appendix F.

Aerial Photograph (year)	Details
1945	Several small buildings are present at 1208 Old Montreal Road. The remainder of the Phase One study area consists of vacant and agricultural lands. Old Montreal Road is present, as is Trim Road south of the intersection with Old Montreal Road.
1965	The farmhouse at 1208 Old Montreal Road and the residence at 1154 Old Montreal Road have been constructed. The remainder of the Phase One study area appears similarly developed to in 1945.
1976	The properties at 1172, 1176, and 1180 Old Montreal Road have been developed with single family residences. Additional rural residential development has occurred to the west along Old Montreal Road.
1991	The properties at 1154, 1176, and 1180 appear to be similarly developed to the 1976 aerial photograph. The Rogers communications tower is visible on the east part 1208 Old Montreal Road. This is a temporary structure with no foundation.
1999	The Phase One property and study area are similarly developed to the 1991 aerial photograph.
2005	The Phase One property and study area are similarly developed to the 1999 aerial photograph. A church has been constructed to the northwest of the Site.
2015	The Phase One property is similarly developed to the 2005 aerial photograph. A residential subdivision is under construction on the north side of Old Montreal Road.
2019	The Phase One property is similarly developed to the 2015 aerial photograph. Additional residential construction has occurred on the north side of Old Montreal Road.

Based on the review of the aerial photographs, no additional PCAs have been identified in the Phase One study area in addition to those mentioned in previous sections.

3.9.2 Topography, Hydrology, Geology

Bedrock and surficial geology were reviewed via the Google Earth applications published by the Ontario Ministry of Energy, Northern Development and Mines. The bedrock geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearch/bedrock-geology and was last modified on March 19, 2018. The surficial geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearch/surficial-geology and was last modified on May 23, 2017.

Based on the surficial geology map examined, beneath any fill, the surficial geology of the subject site is characterised by fine textured glaciomarine deposits of silt and clay with minor sand and gravel. An examination of the bedrock geology map shows the subject site is underlain by limestone, dolostone and shale of the Ottawa Group.

Local well and borehole data indicate variable composition of clay, and sand, over limestone bedrock. The depth to bedrock was 15 m below grade.

The topography of the site consists of a topographic high at the northern portion of the site, with a steep slope downwards in the centre section of the site just south of 1180 Old Montreal Road, and then flat agricultural lands at the southern portion of the site. The local groundwater flow direction is anticipated to be west towards Cardinal Creek.

3.9.3 Fill Materials

A previous Phase II ESA identified a 0.1 m thick layer of crushed stone in some of the boreholes. Silty sand fill was observed to between 0.3 to 0.8 m bgs in the northeast part of 1208 Old Montreal Old. This is **PCA 5** (#30 – Imported Fill of Unknown Quality).

It is not anticipated that significant amounts of imported fill would be present on the remainder of Phase One property based on a review of the borehole logs from the geotechnical investigation.

3.9.4 Water Bodies and Areas of Natural Significance

There are no water bodies on the subject site. The nearest surface water body to the subject site is a tributary to Cardinal Creek, located approximately 60 m south of the Phase One property. The tributary discharges to the Cardinal Creek 0.5 kilometres downstream to the southwest.

There are no Area of Natural Significance (ANSI) within the Phase One study area, according to the Ministry of Natural Resources and Forestry Natural Heritage website (www.gisapplication.lrc.gov.on.ca/mamnh/Index.html).

3.9.5 Well Records

The Ontario well records website (www.ontario.ca/environment-and-energy/map-well-records water wells) was accessed. There were 25 well records for the Phase One study area. Four of the well records are for residence at the Phase One property. The well records date between 1954 to 2004. All of the records were for domestic wells, some of which are still in use. The proposed development will be on municipal services.

There are no oil, gas, or salt wells within the Phase One study area, according to the Oil, Gas & Salt Resources Library (maps.ogsrlibrary.com/wells/).

3.10 Site Operating Records

No site operating records were provided to EXP for review.

4.0 Interviews

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

During the completion of the 2016 ESA, the following individuals were interviewed:

- Lois Morin – former owner of 1180 and 1208 Old Montreal Road
- John Minogue – former owner of 1176 and 1208 Old Montreal Road

The former property owners provided a summary of the site history as follows:

- The Minogue family purchased the vacant farmland in 1951 and built the house and barns (1208 Old Montreal Road);
- In the 1970s, each of the Minogue children were given land severances and constructed residences at 1172, 1176, and 1180 Old Montreal Road, respectively;
- Farming activities on the Phase One property were described as light agricultural in nature and for the last 30 years, the Site has been used to pasture horses;
- The southern portion of the 1208 Montreal Road (south of the Phase One property) is leased to a farm and is still used for agriculture;
- The communications tower on the farm, which is leased to Rogers Communications, was built in 1984. There is a contract in place such that upon lease termination, Rogers is required to remove the tower and all associated materials. The tower has since been removed and the former presence of a backup generator AST is **PCA 6**;
- They were unaware of any pesticide use at the Site;
- Machinery refuelling occurred using a diesel fuel tank located in the loft of the aluminum barn;
- Fuel oil ASTs are present in the basements of 1180 and 1208 Old Montreal Road. No issues have been reported regarding the ASTs;
- A fuel oil AST was formerly located in the basement of 1176 Old Montreal Road. The heating was converted to propane in the last few years; and
- The former property owners had no knowledge of any spills on the property.

Michael Boucher, Manager of Planning for Phoenix Homes, was interviewed via email on February 10, 2021.

- The communications tower was removed from the property in October 2020;
- The barns at 1208 Old Montreal Road were demolished in early 2020; and
- There have been no other significant changes to the properties since they were acquired by Phoenix Harbour in 2017.

Responses to other questions were made during site reconnaissance and are discussed in section 5.0.

5.0 Site Reconnaissance

5.1 General Requirements

On February 9, 2021 at 1 p.m., Ms. Leah Wells, P.Eng. of EXP conducted the site visit for the Phase One property. The weather was sunny with an approximate temperature of minus 5 degrees Celsius. The Site visit lasted approximately 90 minutes. An additional site visit was conducted by Mark McCalla, P. Geo on August 23, 2021 at 2 pm. The weather was sunny with an approximate temperature of 28 degrees Celsius.

The site visits were conducted in accordance with EXP's internal health and safety protocols and with the Ministry of Labour health and safety regulations. The purpose of the site visits were to assess the current conditions of the Phase One property.

Observations of the Phase One property and surrounding properties within the Phase One study area were conducted. Adjoining properties were observed from within the grounds of the Phase One property and from public roads and sidewalks.

Photographs were taken at the Phase One property on February 9 and August 23, 2021 and pertinent photographs are included in Appendix F.

5.2 Specific Observations at the Phase One Property

5.2.1 Buildings and Structures

The site is located on the south side of Old Montreal Road, at 1154, 1176, 1180, and 1208 Old Montreal Road, as shown on Figure 1 in Appendix B. The site is rectangular in shape, covers a total area of 17 hectares (41.5 acres). Below is a description of each property:

- 1154 Old Montreal Road – A single storey residence with basement walkout located directly along Old Montreal Road. Topography of the property slopes downwards at the north end. Behind the residence is a densely wooded area. The house was heated with electric heating.
- 1176 Old Montreal Road – A single storey house with basement which is accessed from a private road off Old Montreal Road. There is a detached garage and shed. The most recent heat supply was natural gas, but the residence was formerly heated with oil.
- 1180 Old Montreal Road – A single storey house with basement which is accessed from a private road off Old Montreal Road. There is a detached garage and shed. A furnace oil AST was present in the basement.
- 1208 Old Montreal Road – The farmhouse is described as a single storey with basement walkout. A small shed and an ice fishing hut were also present on the property. A furnace oil AST was present in the basement.

All the residences have been vacant for several years. The neighbouring residence in the middle of the Phase One property, but not included in the Phase One property, was first heated by wood and then converted to electrical. There was never a heating oil tank on the property and therefore is not a PCA.

5.2.2 Site Utilities and Services

Each of the residences is serviced by a potable well and septic system. There are overhead electrical and bell lines for the properties.

There was no evidence of a railway being present on the Phase One property. A railway is present approximately 1 km south of the Phase One property.

5.3 Storage Tanks

5.3.1 Underground Storage Tanks

EXP did not observe any evidence of USTs, such as vent and fill pipes, during the site reconnaissance. Furthermore, the historical review did not identify any former USTs at the site.

5.3.2 Above Ground Storage Tanks

The following existing and former aboveground storage tanks (ASTs) were documented:

- A former diesel tank, which was used to refuel farm vehicles, was located on the loft of the aluminum barn. It dispensed fuel via gravity feed to the tractor parking over a gravel area. There is the potential for spillage in this area to have impacted the subsurface. This represents an APEC (**PCA 1**).
- A heating oil tank in the basement of 1208 Old Montreal Road. The tank was installed above a concrete floor in fair condition. There was some staining observed on the concrete floor below the tank, although the staining appeared to be contained within the building footprint. This represents an APEC (**PCA 2**).
- A heating oil tank in the basement of 1180 Old Montreal Road. The tank was installed above a concrete floor in good condition, and there was no staining in the vicinity of the tank. This represents an APEC (**PCA 3**).
- A former heating oil tank was located in the basement of 1176 Old Montreal Road, which was replaced with propane a few years ago. No staining was observed on the concrete floor in the former tank location. This represents an APEC (**PCA 4**).

5.4 Chemical Storage Handling and Floor Condition

Chemical use on the Phase One property was predominantly limited to commonly available retail sized containers of cleaners and detergents, as well as common maintenance chemicals such as paint. At the time of the Site visit, none of the properties were occupied.

All chemicals observed on the Phase One property were stored in small quantities and in their original retail packaging or approved containers. All chemical storage containers on the Phase One property were observed to be in good condition at the time of EXP's site visit. Flooring in the vicinity of any chemical storage areas was observed to be in good condition, free of damage or staining. As such, the potential environmental concern to the subsurface environmental conditions of the Phase One property from the use of chemicals is considered to be low.

5.5 Areas of Stained Soil, Pavement or Stressed Vegetation

No areas of significant staining of soil or pavement was observed on the Phase One property at the time of EXP's site visit. Further, the vegetation on the property did not appear to be stressed.

5.6 Fill and Debris

Significant quantities of fill are not anticipated to be present at the subject site. However, fill was observed in the boreholes at 1208 Old Montreal Road. This represents an APEC (Importation of Fill of Unknown Quality - **PCA 5**).

5.7 Air Emissions

Regulatory control of air emissions in Ontario is the responsibility of the MECP. According to the Environmental Protection Act (EPA), an ECA (Air) is required for the ongoing operation of any equipment that may discharge a contaminant into the natural environment if the equipment was installed, modified or altered after June 29, 1988.

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

5.8 Odours

No strong odours were present during the site visit.

5.9 Noise

No excessive noise was heard during the site visit.

5.10 Other Observations

There were no pits and lagoons, no railways or spurs and no unidentified substances observed on the Phase One property.

5.11 Special Attention Items, Hazardous Building Materials and Designated Substances

5.11.1 Asbestos

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

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

Based on the age of the buildings at the Phase One property ACM may be present.

5.11.2 Ozone Depleting Substances (ODSs)

Chlorofluorocarbons (CFC), often referred to as freons, ceased production in Canada in 1993 as a result of their ozone-depleting characteristics. Importation of CFCs into Canada ceased in 1997 and a total ban on their use is proposed for 2020. The use of these materials is still permitted in existing equipment, but equipment must be serviced by a licensed contractor such that CFCs are contained and not released to the environment during servicing or operation.

Maintenance of refrigerant containing equipment should continue to be completed by a licensed refrigeration contractor. The equipment should only be repaired, removed, or serviced by an appropriately licensed contractor.

5.11.3 Lead

Lead has frequently been used in oil-based paints, roofing materials, cornices, tank linings, electrical conduits and soft solders for tinplate and plumbing. The use of lead-based paints (LBPs) was phased out *circa* 1976. Paint that was produced or used between 1976 and 1980 may contain small amounts of lead. Paint that was produced or used prior to 1950 may contain

higher levels of lead. The main concern regarding lead paint is its potential to become lead dust or chips either through deterioration and/or mechanical means (i.e., sanding, abrasion, etc.). Exposure to lead dust or chips occurs by ingestion or inhalation.

Based on the age of the buildings at the Phase One property LBPs may be present. The painted surfaces observed during EXP's site visit were observed to be in poor condition.

5.11.4 Mercury

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

Mercury-containing equipment was not observed during the Site visit. The interior painted surfaces observed during EXP's site visit were in poor condition. No mercury-containing thermostats were observed in the building.

5.11.5 Polychlorinated Biphenyls (PCB)

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

There was no evidence of PCB-containing equipment on the Phase One property.

5.11.6 Urea Formaldehyde Foam Insulation

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

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

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

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

No evidence of UFFI was observed during the site visit.

5.11.7 Radon

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

Due to the potential health concerns associated with radon, Health Canada released a guideline in June 2007 for a maximum acceptable level of radon gas of 200 Becquerels per cubic metre (Bq/m³) where radon gas is present and the annual radon concentration exceeds 200 Bq/m³ in the normal occupancy area.

A radon gas assessment was beyond the scope of this Phase One ESA, and as such, radon gas was not assessed.

5.11.8 Mould

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

Currently there are no regulations governing mould; however, there are several guidelines addressing mould assessments and abatement. At the moment, the industry standards include the Canadian Construction Association (CCA) document 82-2004 titled "mould guidelines for the Canadian construction industry" and the Environmental Abatement Council of Ontario (EACO) guidelines titled "EACO Mould Abatement Guidelines, Edition 3 (2015)."

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

Significant black mould growth and water damage was observed during the site visit in all of the residences.

5.12 Other Substances

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

5.13 Processing and Manufacturing Operations

No processing or manufacturing operations were observed at the Phase One property.

5.14 Hazardous Materials Use and Storage

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

5.15 Vehicle and Equipment Maintenance Areas

No equipment maintenance has occurred on the Phase One property.

5.16 Oil/Water Separators

No oil/water separators were present at the Phase One property.

5.17 Sewage and Wastewater Disposal

Sewage and wastewater generated at the Phase One property was disposed of via individual septic systems. There is no waste currently generated at the Phase One property.

5.18 Solid Waste Generation, Storage & Disposal

No solid wastes are generated at the Phase One property.

5.19 Liquid Waste Generation, Storage & Disposal

No liquid waste is generated at the Phase One property.

5.20 Unidentified Substances

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

5.21 Hydraulic Lift Equipment

No hydraulic equipment was observed at the Phase One property.

5.22 Mechanical Equipment

No mechanical equipment of concern was present on the Phase One property.

5.23 Abandoned and Existing Wells

There are four domestic wells on the Phase One property. Eight monitoring wells were installed at 1208 Old Montreal Road as part of the Phase Two ESA conducted in 2016.

Due to snow cover, none of the wells were observed during the site visit.

5.24 Roads, Parking Facilities and Right of Ways

Vehicular access to the Phase One property is via is Montreal Road and a private driveway.

5.25 Adjacent and Surrounding Properties

A visual inspection of the adjacent properties and properties within 250 m of the Phase One property was conducted from publicly accessible areas to identify the occupants and document the uses and sources of potential environmental concerns that may impact the Phase One property. Refer to Figure 3 in Appendix C for the adjacent land uses.

The following land uses border the Phase One property:

- North: Old Montreal Road followed by residential development;
- West: Residential;

- East: Agricultural fields; and
- South: Agricultural fields.

Based on observations made from public roads and sidewalks, fill/vent pipes were observed at the residences at 1172, 1183, 1199 and 1201 Old Montreal Road. Based on the age of the majority the residences along Old Montreal Road, it is likely most of the buildings are, or have historically, been heated with oil. These represent PCA 7 to 11 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks). However, based on the down or cross gradient direction of these properties to the Phase One property, none of them are considered APECs.

5.13 Enhanced Investigation Property

Ontario Regulation 153/04 defines an enhanced investigation property as a “property that is used, or has ever been used, in whole or in part for an industrial use or any of the following commercial uses: a garage; a bulk liquid dispensing facility, including a gasoline outlet; or, for the operation of dry-cleaning equipment.”

Therefore, in accordance with Regulation 153/04, the property is not considered to be an enhanced investigation property.

5.14 Summary and Written Description of Investigation

At the time of the investigation, the Phase One property consisted of vacant residential properties.

Based on the findings of this investigation the following PCA have been identified in the Phase One study area:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks
- PCA #30 – Imported Fill Material of Unknown Quality

The following areas of potential environmental concern (APEC) were identified:

- APEC #1 – 1208 Montreal Road – Area near dispensing area for former fuel AST on 1208 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 1)).
- APEC #2 – 1208 Old Montreal Road – Area around furnace oil AST on 1208 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 2)).
- APEC #3 – 1176 Old Montreal Road – Area around former furnace oil AST on 1176 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 3)).
- APEC #4 – 1180 Old Montreal Road – Area around furnace oil AST on 1180 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks (PCA 4)).
- APEC #5 – 1208 Old Montreal Road – Fill material present at 1208 Old Montreal Road (PCA #30 – Imported Fill Material of Unknown Quality (PCA 5)).
- APEC #6 – 1208 Old Montreal Road – Area around former generator AST at the communications tower on 1208 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks (PCA 6)).

6.0 Review and Evaluation of Information

6.1 Current and Past Uses

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a farm in 1951 under the 1208 Old Montreal Road civic address. In the 1970s a portion of the property was severed, and three residences were developed at 1176, and 1180 Old Montreal Road. The residence at 1154 Old Montreal Road was built in the 1960s. All of the residences are still present on the Phase One property, none of which are currently occupied.

6.2 Potentially Contaminating Activity

Ontario Regulation (O. Reg.) 153/04 defines a Potential Contaminating Activity (PCA) as one of fifty-nine (59) industrial operations set out in Table 2 of Schedule D that occurs or has occurred in the Phase One study area. The following PCA were identified for the Phase One property and the Phase One study area:

The following PCAs were identified:

- **PCA 1** – 1208 Montreal Road – Former fuel AST on 1208 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 2** – 1208 Old Montreal Road – Furnace oil AST on 1208 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 3** – 1176 Old Montreal Road – Former furnace oil AST on 1176 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 4** – 1180 Old Montreal Road – Furnace oil AST on 1180 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 5** – 1208 Old Montreal Road – Fill material present at 1208 Old Montreal Road (PCA #30 – Imported Fill Material of Unknown Quality).
- **PCA 6** – 1208 Old Montreal Road – Former generator AST at the communications tower on 1208 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 7** – 1171 Old Montreal Road – Furnace oil AST on 1171 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 8**– 1183 Old Montreal Road – Furnace oil AST on 1183 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 9** – 1199/1201 Old Montreal Road – Furnace oil AST on 1189/1201 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 10** – 1138 Old Montreal Road – Furnace oil AST on 1138 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks).
- **PCA 11** – 1085 Watters Road – Former landfill (PCA#88 – Waste Disposal and Waste Management).

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

6.3 Areas of Potential Environmental Concern

Ontario Regulation 153/04 defines an APEC as an area on a property where one or more contaminants are potentially present. Based on this Phase One ESA, the following APEC was identified:

Area 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 Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Area near dispensing area for former fuel AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #2	Area around furnace oil AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #3	Area around former furnace oil AST on 1176 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #4	Area around furnace oil AST on 1180 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #5	Fill material present at 1208 Old Montreal Road	PCA #30 – Importation of fill of unknown quality	On-Site	PHC and BTEX, metals	Soil
APEC #6	Area around former generator AST at the communications tower on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater

6.4 Phase One Conceptual Site Model

To develop a conceptual model for the Phase One property, the following physical characteristics and pathways were considered. A conceptual site model (CSM) showing the topography of the site, inferred groundwater flow, general site features, APEC, and PCA is shown in Figure 2.

6.4.1 Buildings and Structures

The following buildings were present at the Phase One property at the time of the Site visit:

- 1154 Old Montreal Road – A single storey residence with basement walkout located directly along Old Montreal Road. Topography of the property slopes downwards at the north end. Behind the residence is a densely wooded area. The house was heated with electric heating.
- 1176 Old Montreal Road – A single storey house with basement which is accessed from a private road off Old Montreal Road. There is a detached garage and shed. The most recent heat supply was natural gas, but the residence was formerly heated with oil.
- 1180 Old Montreal Road – A single storey house with basement which is accessed from a private road off Old Montreal Road. There is a detached garage and shed. A furnace oil AST was present in the basement.
- 1208 Old Montreal Road – The farmhouse is described as a single storey with basement walkout. A small shed and an ice fishing hut were also present on the property. A furnace oil AST was present in the basement.

All of the residences were vacant at the time of the Site visit.

6.4.2 Water Bodies and Groundwater Flow Direction

There are no water bodies on the subject site. The nearest surface water body to the subject site is a tributary to Cardinal Creek, located approximately 60 m south of the Phase One property. The tributary discharges to the Cardinal Creek 0.5 kilometres downstream to the southwest.

6.4.3 Areas of Natural Significance

There are no ANSI within the Phase One study area.

6.4.4 Water Wells

There are records for 25 potable water wells within the Phase One study area. The well records date between 1954 to 2004. All of the records were for domestic wells, some of which are still in use. The proposed development will be on municipal services.

6.4.5 Potentially Contaminating Activity

The following on-site PCA were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks
- PCA #30 – Imported Fill Material of Unknown Quality

The Following off-site PCA were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks

6.4.6 Areas of Potential Environmental Concern

The following APEC were identified:

- APEC #1 – 1208 Montreal Road – Area near dispensing area for former fuel AST on 1208 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 1)).
- APEC #2 – 1208 Old Montreal Road – Area around furnace oil AST on 1208 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 2)).
- APEC #3 – 1176 Old Montreal Road – Area around former furnace oil AST on 1176 Old Montreal Road (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks (PCA 3)).
- APEC #4 – 1180 Old Montreal Road – Area around furnace oil AST on 1180 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks (PCA 4)).
- APEC #5 – 1208 Old Montreal Road – Fill material present at 1208 Old Montreal Road (PCA #30 – Imported Fill Material of Unknown Quality (PCA 5)).
- APEC #6 – 1208 Old Montreal Road – Area around former generator AST at the communications tower on 1208 Old Montreal Road (PCA#28 – Gasoline and associated products storage in fixed tanks (PCA 6)).

6.4.7 Subsurface Stratigraphy

Based on the surficial geology map examined, beneath any fill, the surficial geology of the subject site is characterised by fine textured glaciomarine deposits of silt and clay with minor sand and gravel. An examination of the bedrock geology map shows the subject site is underlain by limestone, dolostone and shale of the Ottawa Group.

Local well and borehole data indicate variable composition of clay, and sand, over limestone bedrock. The depth to bedrock was 15 m below grade.

6.4.8 Uncertainty Analysis

The CSM is a simplification of reality, which aims to provide a description and assessment of any areas where potentially contaminating activity that occurred within the Phase One study area may have adversely affected the Phase One property. All information collected during this investigation, including records, interviews, and site reconnaissance, has contributed to the formulation of the CSM.

Information was assessed for consistency, however EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others. All reasonable inquiries to obtain accessible information were made, as required by Schedule D, Table 1, Mandatory Requirements for Phase One Environmental Site Assessment Reports. The CSM reflects our best interpretation of the information that was available during this investigation.

7.0 Conclusions

EXP understands that the most recent use of the property is defined by Ontario Regulation 153/04 is residential property use, and that the proposed use is residential.

In summary, the following areas of potential environmental concern (APEC) were identified:

Area 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 Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Area near dispensing area for former fuel AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #2	Area around furnace oil AST on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #3	Area around former furnace oil AST on 1176 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #4	Area around furnace oil AST on 1180 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater
APEC #5	Fill material present at 1208 Old Montreal Road	PCA #30 – Importation of fill of unknown quality	On-Site	PHC and BTEX, metals	Soil
APEC #6	Area around generator AST at the communications tower on 1208 Old Montreal Road	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC and BTEX	Soil and Groundwater

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Mark McCalla, M.Sc., P.Geo., recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.

8.0 References

- Canadian Standards Association, *Phase One Environmental Site Assessment Z768-01 (R2016)*, November 2001.
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*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

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- Ontario Ministry of Labour, *Occupational Health and Safety Act*, R.S.O. 1990.
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9.0 Limitation of Liability, Scope of Report, and Third Party Reliance

Basis of Report

This report ("Report") is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the site the recommendations of EXP may require re-evaluation. Where special concerns exist, or DCR Phoenix Group of Companies ("the Client") has special considerations or requirements, these should be disclosed to EXP to allow for additional or special investigations to be undertaken not otherwise within the scope of investigation conducted for the purpose of the Report.

Reliance on Information Provided

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

Standard of Care

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

Complete Report

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

Use of Report

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

Report Format

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

Appendix A: Qualifications of Assessors

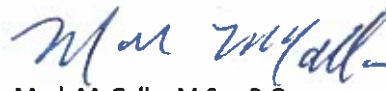
DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021

10.0 Signatures

We trust this report meets your current needs. If you have any questions pertaining to the investigation undertaken by EXP, please do not hesitate to contact the undersigned. The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. The Qualified Person who oversaw this work, Mark McCalla, M.Sc., P.Geo., recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.



Leah Wells, P.Eng.
Environmental Engineer
Earth and Environment



Mark McCalla, M.Sc., P.Geo.
Senior Project Manager
Earth and Environment



Qualifications of Assessors

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

Leah Wells, P.Eng., has four years of experience in the environmental consulting field. She has worked on numerous Phase I Environmental Site Assessments (ESA); Phase II ESAs, completing soil and groundwater sampling, soil vapour sampling, assisting in report preparation and data entry and analysis.

Mark McCalla, M.Sc., P.Geo., is a senior Environmental Scientist with EXP who has over 30 years of experience in the environmental consulting field. His technical undertakings have including work in the following fields: Phase I and II Environmental Site Assessments; Site Specific Risk Assessments; Petroleum and chlorinated hydrocarbon contaminated sites; Soil and groundwater remediation technologies; Hydrogeological, Terrain Analysis and Aggregate Assessments; Preparation of Ontario Ministry of Environment Certificate of Approvals and Records of Site Condition. Mr. McCalla is a Qualified Person for completing Phase I and II Environmental Site Assessments as per O.Reg. 153/04.

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

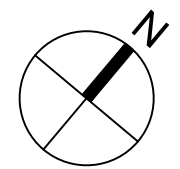
Appendix B: Survey Plan



j:\109575_OldMontrealRd\5.9 Drawings\59civil\current\Serviceability\Layout\109575-GradingPlan-OPTION 1.dwg Layout Name: 24x36 Plan Plot Style: ----- Plot Scale: 1:4,526 Plotted At: 12/15/2017 12:49 PM Last Saved By: chris.cormier Last Saved At: Dec. 15, 17



LEGEND:
 81.89 / 83.30 PROPOSED ELEVATION / EXISTING ELEVATION
 ← MAJOR OVERLAND FLOW ROUTE



Scale
N.T.S.

Project Title

Drawing Title
**CONCEPTUAL MACRO GRADING PLAN
 DRAFT PLAN #2**

Sheet No.

FIG 5.1

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Appendix C: Figures





SITE LOCATION

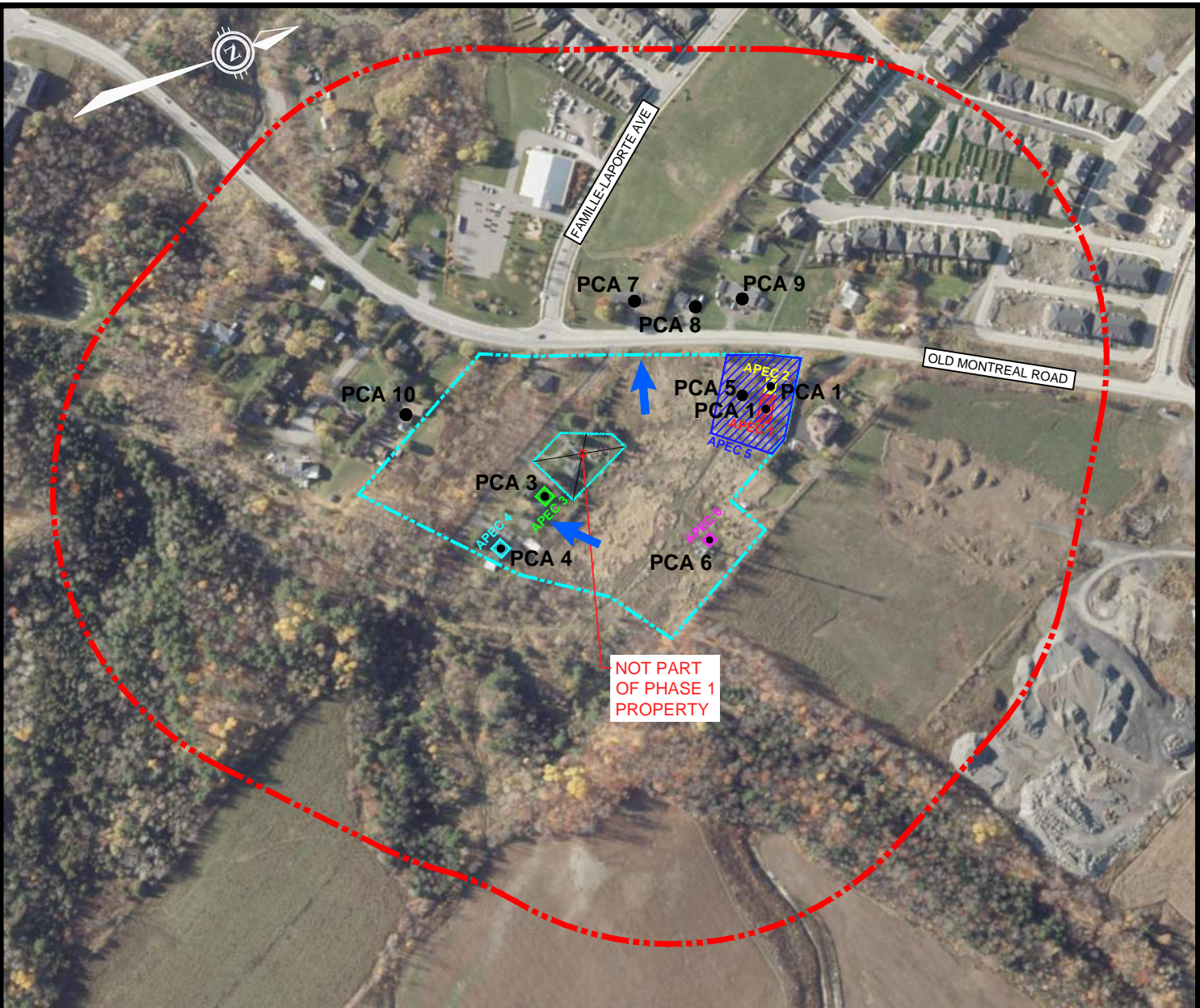


EXP Services Inc. www.exp.com





t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

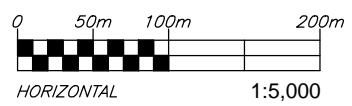
DATE FEB 2021		CLIENT: PHOENIX HOMES, PROPOSED SUBDIVISION		project no. OTT-00234493-B0
DESIGN M.M./L.W.	CHECKED M.M.	TITLE: SITE LOCATION PLAN		scale NTS
DRAWN BY T.M.		1208 OLD MONTREAL ROAD, ORLEANS, ONTARIO		FIG 1

Filename: P:\Projects\Environmental\230000s\234000\234493-B0 PhOneSA 1208 Old Montreal Rd\Drawings\Phase Two ESA\234493-B0 Phoenix Harbour.dwg
 Last Saved: Feb 9, 2021 8:43 AM Last Plotted: Feb 10, 2021 9:30 AM Plotted by: McKeet



LEGEND

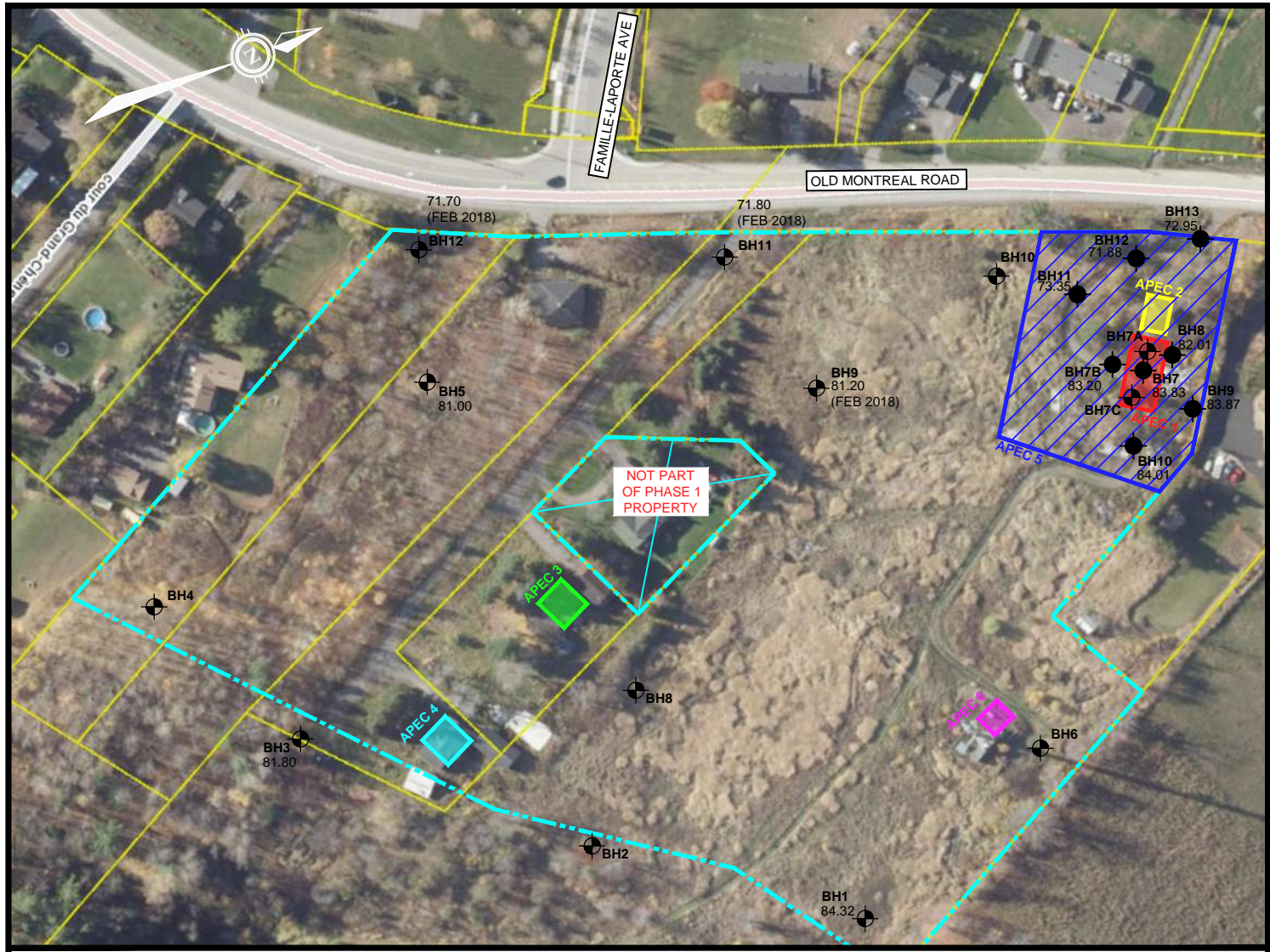
-  PROPERTY BOUNDARY
-  STUDY AREA (250m)
-  INFERRED GROUNDWATER FLOW DIRECTION
-  PCA IDENTIFIER



EXP Services Inc. www.exp.com
 t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

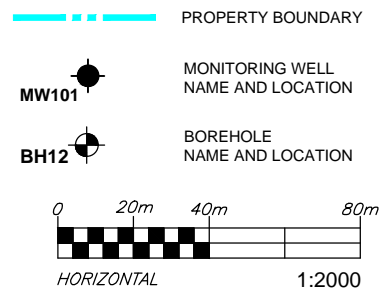
DATE FEB 2021		CLIENT: PHOENIX HOMES, PROPOSED SUBDIVISION		project no. OTT-00234493-B0
DESIGN M.M./L.W.	CHECKED M.M.	TITLE: POTENTIALLY CONTAMINATING ACTIVITY (PCA) 1208 OLD MONTREAL ROAD, ORLEANS, ONTARIO		scale 1:5,000
DRAWN BY T.M.				FIG 2

Filename: P:\Projects\Environmental\230000\230000\234493-B0 Phoenix Harbour.dwg
 Last Saved: Feb 9, 2021 8:43 AM
 Last Plotted: Feb 10, 2021 9:28 AM
 Plotted by: McKeet



SYMBOL	AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)	POTENTIALLY CONTAMINATING ACTIVITY
	APEC 1	#28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
	APEC 2	#28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
	APEC 3	#28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
	APEC 4	#28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
	APEC 5	#30 - IMPORTED FILL MATERIAL OF UNKNOWN QUALITY
	APEC 6	#28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS

LEGEND



EXP Services Inc. www.exp.com
 t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

DATE FEB 2021	CLIENT: PHOENIX HOMES, PROPOSED SUBDIVISION	project no. OTT-00234493-B0
DESIGN M.M./L.W.	CHECKED M.M.	scale 1:2000
DRAWN BY T.M.	TITLE: AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC) 1208 OLD MONTREAL ROAD, ORLEANS, ONTARIO	FIG 3

EXP Services Inc.

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Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Appendix D: Fire Insurance Plans, Title Search, Municipal Records & Provincial Records





READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

EXP Services

Attn: Kathy

BRIEF DESCRIPTION OF LAND:

1208, 1180, 176, 1172, 1154 Old Montreal Road, Ottawa
Part of Lots 27 and 28, Concession 1 OS Cumberland

PIN: 14526-0023
14526-0026
14526-0025
14526-2276
14526-2280

LAST REGISTERED OWNER: Phoenix Harbour Old Montreal Road Inc.

CHAIN OF TITLE:

Lot 27, Con 1 OS

Deed 107 registered ??, 1868
From John Carr to James Smith

Deed 12982 registered Jul 9, 1919
From James Smith to James Wright

Deed 16346 registered Mar 29, 1935
From James Wright to Florence Johnston

Deed 18290 registered Mar 24, 1947
From Florence Johnston to Fergus Minogue and Katherine Minogue (sic)

PIN 2280

Deed N759656 registered Feb 23, 1998
From estate of Fergus Minogue and Catherine Minogue to Catherine Minogue

Deed OC489124 registered Jul 22, 2005
From Catherine Minogue to Lois Morin, Norman Minogue, Linda Tanner, and John Minogue.

Deed OC838304 registered Apr 3, 2008
From estate of Norman Minogue to Diane Minogue

Deed OC1954654 registered Nov 30, 2017
From Lois Morin, Diane Minogue, Linda Tanner, and John Minogue to Phoenix Harbour Old Montreal Road Inc.

PIN 2276

Deed 21327B registered Jan 14, 1970
From Fergus Minogue and Catherine Minogue to Norman Minogue

Deed OC838304 registered Apr 3, 2008
From estate of Norman Minogue to Diane Minogue

Deed OC2073402 registered Jan 24, 2019
From Diane Minogue to Phoenix Harbour Old Montreal Road Inc.

PIN 0025

Deed 25874 registered May 4, 1971
From Fergus Minogue and Catherine Minogue to John Minogue

Deed 103370 registered Sep 2, 1986
From John Minogue to Roy Joseph Sampson and Judith Christine Sampson

Deed N752036 registered Jan 17, 1997
From Roy Joseph Sampson and Judith Christine Sampson to Judith Christine Sampson

Deed N755673 registered Jun 30, 1997
From Judith Christine Sampson to Shane, Christine, and George Howe

Deed OC14875 registered Nov 5, 2001
From George Howe to Shane and Christine Howe

Deed OC1954602 registered Nov 30, 2017
From Shane and Christine Howe to Phoenix Harbour Old Montreal Road Inc.

PIN 0026

Deed 133366 registered Jan 31, 1991

From Fergus Minogue and Catherine Minogue to Lois Dorothy Morin and Robert Lawrence Morin

Survivorship OC1617842 registered Sep 9, 2014

From Robert Lawrence Morin to Lois Dorothy Morin

Deed OC1954639 registered Nov 30, 2017

From Lois Dorothy Morin to Phoenix Harbour Old Montreal Road Inc.

Lot 28 Con 1 OS, PIN 0023

Court Order ?? registered 1862?

to Honore Cote

Deed 3039 registered Jun 8, 1885

From Honore Cote to Francis Warren

Deed 3123 registered Dec 5, 1885

From Francis Warren to Isidore Cardinal

Deed 9105 registered Dec 4, 1906

From Isidore Cardinal to Alderic Cardinal

Deed 18234 registered Nov 19, 1946

From Marie Louise Cardinal (estate of Alderic Cardinal) to Paul Cardinal

Deed 18243 registered Dec 5, 1946

From Paul Cardinal to Hormidas St. Pierre

Deed 18772 registered May 23, 1949

From Hormidas St. Pierre to Edward James Mockett

Deed 20851B registered Oct 28, 1969

From Edward James Mockett to Director of the Veterans Land Act

Deed 91866 registered Nov 1, 1984

From Director of the Veterans Land Act to Stanley Hunter

Deed 91867 registered Nov 1, 1984

From Stanley Hunter to Antonia and Delfina Da Silva

Deed 102614 registered Jul 30, 1985

From Antonia and Delfina Da Silva to Ricardo and Darquise Da Silva

Deed 138993 registered Dec 13, 1991

From Ricardo and Darquise Da Silva to Antonia and Delfina Da Silva

Deed OC979262 registered May 15, 2009

From Antonia and Delfina Da Silva to Nadim Batikh

Deed OC1954617 registered Nov 30, 2017

From Nadim Batikh to Phoenix Harbour Old Montreal Road Inc.



File Number: D06-03-21-0029

March 26, 2021

Kathy Radisch
EXP Services Inc.
100-2650 Queensview Drive

Sent via email [Kathy.radisch@exp.com]

Dear Ms. Radisch,

Re: Information Request
1208 Old Montreal Road, **Ottawa, Ontario** (“Subject Property”)

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

Documents Provided:

Excel

The Excel Spread Sheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided Map. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario’s Environmental Registry

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an “as is” basis with no representation or warranty by the City with respect to the information’s accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Rachel Young at HLUI@ottawa.ca

Sincerely,

A handwritten signature in black ink, appearing to read "Rachel Young". The signature is written in a cursive style with a large initial "R" and "Y".

Rachel Young

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / RY

Enclosures.

cc: File no. D06-03-21-0029



January 28, 2021

VIA FACSIMILE:
416-314-4285

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

Re: OTT-0234493-B0 **File Review Request**

To Whom it May Concern:

I am sending a Freedom of Information Request to you for 1208 Old Montreal Road, Ottawa, Ontario. We are conducting an environmental site assessment and require any environmental concerns.

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

Yours truly,
EXP Services Inc.

A handwritten signature in blue ink that reads 'Kathy Radisch'.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
 Credit Card Payment Form

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement et de
l'Action en matière de changement
climatique

Bureau de l'accès à l'information et
de la protection de la vie privée

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



September 12, 2016

Kathy Radisch
exp Services Inc
100 - 2650 Queensview Dr
Ottawa, ON K2B 8H6

Dear Kathy Radisch:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2016-04996, Your Reference OTT-00234493-A0

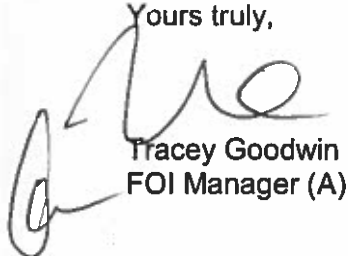
This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1154, 1172, 1176, 1180 & 1208 Old Montreal Rd, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment. This file is now closed.**

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Meagan Caschera at meagan.caschera@ontario.ca.

Yours truly,



Tracey Goodwin
FOI Manager (A)

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Appendix E: EcoLog ERIS Report





DATABASE REPORT

Project Property: *Phase One ESA
1208 Old Montreal Road
Orléans ON K4A 3N6*

Project No: *Not yet available - Ismail Taki*

Report Type: *Standard Report*

Order No: *21020200030*

Requested by: *exp Services Inc.*

Date Completed: *February 4, 2021*

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	9
Map.....	12
Aerial.....	13
Topographic Map.....	14
Detail Report.....	15
Unplottable Summary.....	58
Unplottable Report.....	60
Appendix: Database Descriptions.....	122
Definitions.....	131

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: *Phase One ESA
1208 Old Montreal Road Orléans ON K4A 3N6*

Project No: *Not yet available - Ismail Taki*

Coordinates:

Latitude: *45.4960694*
Longitude: *-75.4666548*
UTM Northing: *5,038,165.72*
UTM Easting: *463,539.22*
UTM Zone: *18T*

Elevation: *255 FT
77.87 M*

Order Information:

Order No: *21020200030*
Date Requested: *February 2, 2021*
Requested by: *exp Services Inc.*
Report Type: *Standard Report*

Historical/Products:

City Directory Search *CD - Subject Site plus 10 Adjacent Properties*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	1	1
CA	<i>Certificates of Approval</i>	Y	0	1	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	3	3
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	12	12
Total:			0	17	17

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	BORE		ON	WSW/63.0	-4.28	15
2	WWIS		lot 27 con 1 ON Well ID: 1513130	WSW/63.1	-4.28	16
3	WWIS		lot 27 con 1 ON Well ID: 1512335	N/66.8	-1.33	19
4	WWIS		lot 27 con 1 ON Well ID: 1514989	ESE/96.1	7.33	22
5	WWIS		lot 27 con 1 ON Well ID: 1512408	S/133.7	6.73	25
6	EHS		Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	W/181.3	-9.39	29
7	WWIS		1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON Well ID: 1534641	S/197.2	6.36	29
8	EHS		1123 Old Montreal Rd Ottawa ON K4A3N6	W/198.5	-10.60	36
9	EHS		1154-1208 Old Montreal Rd Ottawa ON	SSE/203.2	8.12	36
10	WWIS		lot 28 con 1 ON Well ID: 1513134	SW/203.9	-0.66	36
11	WWIS		OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON Well ID: 1534786	WSW/208.5	-8.75	38
11	WWIS		1123 OLD MONTREAL ROAD lot 28 Ottawa ON	WSW/208.5	-8.75	45

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			<i>Well ID:</i> 7235406			
12	WWIS		1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534642	SSW/220.2	-0.66	47
13	WWIS		lot 27 ON <i>Well ID:</i> 1526501	N/220.4	-4.36	48
13	WWIS		lot 27 ON <i>Well ID:</i> 1528921	N/220.4	-4.36	51
14	CA	Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON	WSW/237.9	-9.07	54
15	WWIS		lot 27 con 1 ON <i>Well ID:</i> 1532616	N/239.1	-5.26	55

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	WSW	62.98	<u>1</u>

CA - Certificates of Approval

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

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON	WSW	237.86	<u>14</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Oct 31, 2020 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1154-1208 Old Montreal Rd Ottawa ON	SSE	203.22	<u>9</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	W	181.32	<u>6</u>
	1123 Old Montreal Rd Ottawa ON K4A3N6	W	198.52	<u>8</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 12 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 27 con 1 ON <i>Well ID:</i> 1514989	ESE	96.07	<u>4</u>
	lot 27 con 1 ON <i>Well ID:</i> 1512408	S	133.73	<u>5</u>
	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534641	S	197.24	<u>7</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 27 con 1 ON <i>Well ID:</i> 1513130	WSW	63.06	<u>2</u>
	lot 27 con 1 ON <i>Well ID:</i> 1512335	N	66.81	<u>3</u>
	lot 28 con 1 ON <i>Well ID:</i> 1513134	SW	203.89	<u>10</u>
	OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON <i>Well ID:</i> 1534786	WSW	208.50	<u>11</u>
	1123 OLD MONTREAL ROAD lot 28 Ottawa ON <i>Well ID:</i> 7235406	WSW	208.50	<u>11</u>
	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534642	SSW	220.22	<u>12</u>
	lot 27 ON <i>Well ID:</i> 1528921	N	220.39	<u>13</u>
	lot 27 ON	N	220.39	<u>13</u>

Well ID: 1526501

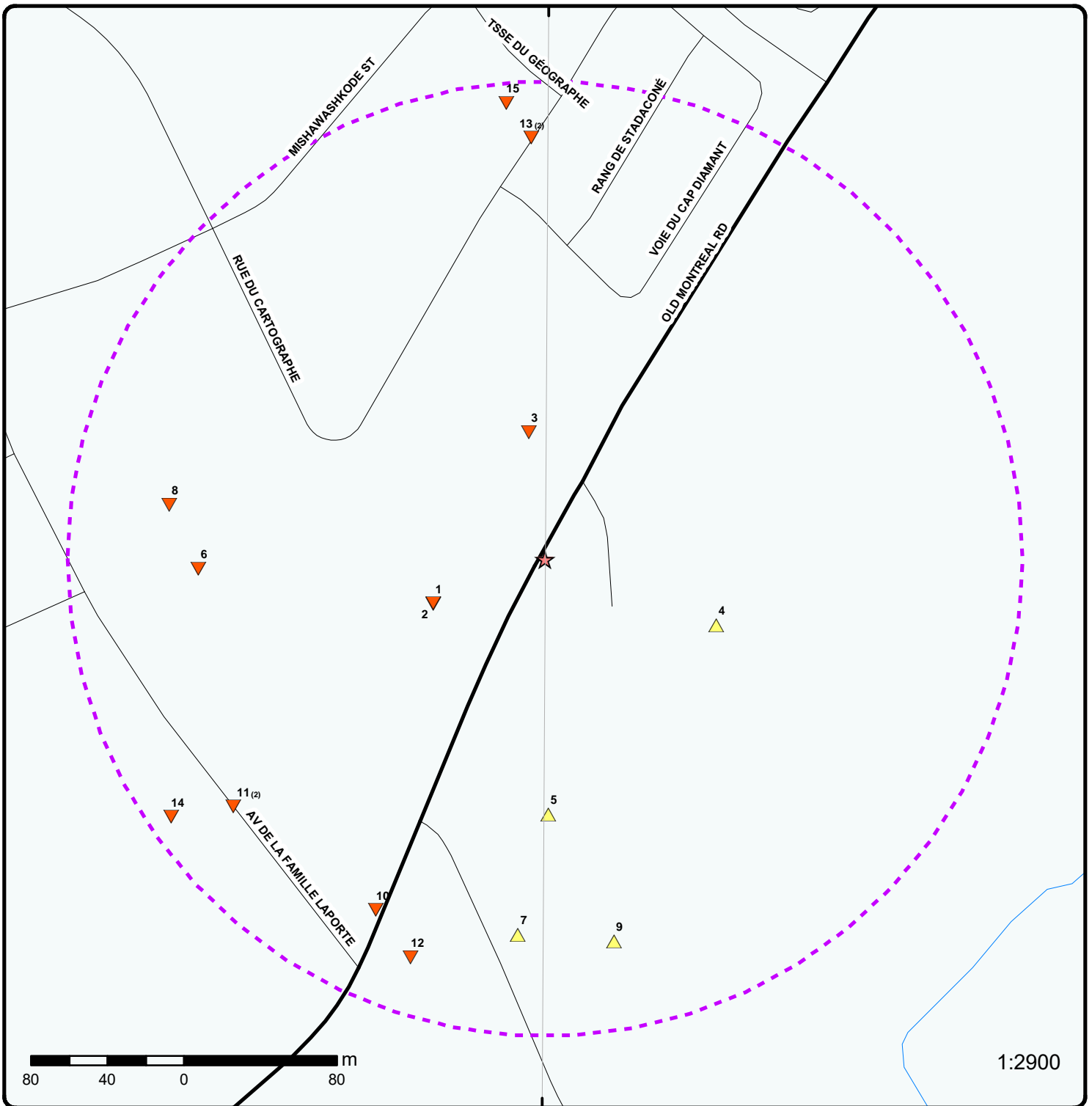
lot 27 con 1
ON

N

239.13

[15](#)

Well ID: 1532616



Map : 0.25 Kilometer Radius

Order Number: 21020200030

Address: 1208 Old Montreal Road, Orléans, ON

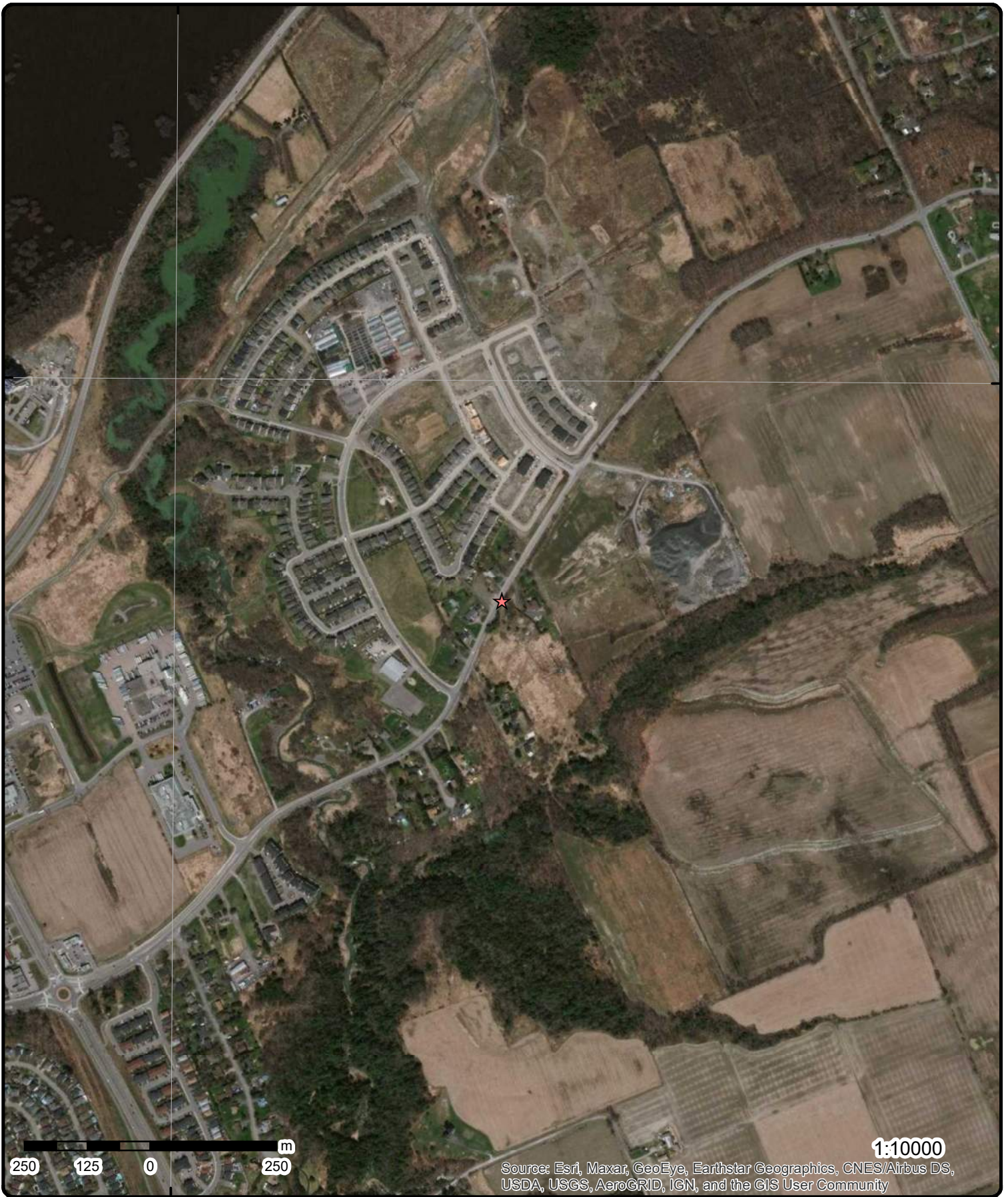


Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range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

75°28'30"W

45°30'N

45°30'N



Aerial Year: 2015

Address: 1208 Old Montreal Road, Orléans, ON

Source: ESRI World Imagery

Order Number: 21020200030



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

Topographic Map

Address: 1208 Old Montreal Road, ON

Source: ESRI World Topographic Map

Order Number: 21020200030



© Eris Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	WSW/63.0	73.6 / -4.28	ON	BORE
Borehole ID:		616403		Inclin FLG:	No
OGF ID:		215517191		SP Status:	Initial Entry
Status:		Borehole		Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:		Borehole		Primary Name:	
Completion Date:		SEP-1959		Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.495855
Total Depth m:		44.8		Longitude DD:	-75.467401
Depth Ref:		Ground Surface		UTM Zone:	18
Depth Elev:				Easting:	463481
Drill Method:				Northing:	5038142
Orig Ground Elev m:		74.7		Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:		71.4			
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

<p>Geology Stratum ID: 218403844</p> <p>Top Depth: 13.1</p> <p>Bottom Depth: 14</p> <p>Material Color:</p> <p>Material 1: Sand</p> <p>Material 2:</p> <p>Material 3:</p> <p>Material 4:</p> <p>Gsc Material Description:</p> <p>Stratum Description: SAND.</p>	<p>Mat Consistency:</p> <p>Material Moisture:</p> <p>Material Texture:</p> <p>Non Geo Mat Type:</p> <p>Geologic Formation:</p> <p>Geologic Group:</p> <p>Geologic Period:</p> <p>Depositional Gen:</p>
<p>Geology Stratum ID: 218403846</p> <p>Top Depth: 14.6</p> <p>Bottom Depth: 44.8</p> <p>Material Color:</p> <p>Material 1: Limestone</p> <p>Material 2:</p> <p>Material 3:</p> <p>Material 4:</p> <p>Gsc Material Description:</p> <p>Stratum Description: LIMESTONE. 001471ED. SEISMIC VELOCITY = 6600. BEDROCK. SEISMIC VELOCITY = 19000. K. DA **Note: Many records provided by the department have a truncated [Stratum Description] field.</p>	<p>Mat Consistency:</p> <p>Material Moisture:</p> <p>Material Texture:</p> <p>Non Geo Mat Type:</p> <p>Geologic Formation:</p> <p>Geologic Group:</p> <p>Geologic Period:</p> <p>Depositional Gen:</p>
<p>Geology Stratum ID: 218403843</p> <p>Top Depth: 0</p> <p>Bottom Depth: 13.1</p> <p>Material Color:</p> <p>Material 1: Clay</p> <p>Material 2:</p>	<p>Mat Consistency:</p> <p>Material Moisture:</p> <p>Material Texture:</p> <p>Non Geo Mat Type:</p> <p>Geologic Formation:</p> <p>Geologic Group:</p>

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material 3: Material 4: Gsc Material Description: Stratum Description:		CLAY.		Geologic Period: Depositional Gen:	
Geology Stratum ID: 218403845 Top Depth: 14 Bottom Depth: 14.6 Material Color: Material 1: Gravel Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:		GRAVEL.		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: OTTAWA2.txt RecordID: 08911 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) Source Originators: Geological Survey of Canada				Horizontal Datum: NAD27 Vertical Datum: Mean Average Sea Level Projection Name: Universal Transverse Mercator	
2	1 of 1	WSW/63.1	73.6 / -4.28	lot 27 con 1 ON	WWIS
Well ID: 1513130 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: 1/19/1960 Selected Flag: Yes Abandonment Rec: Contractor: 1504 Form Version: 1 Owner: Street Name: County: OTTAWA Municipality: CUMBERLAND TOWNSHIP Site Info: Lot: 027 Concession: 01 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513130.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	10035118			Elevation:	71.380737
DP2BR:	48			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	463480.8
Code OB Desc:	Bedrock			North83:	5038142
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	9/15/1959			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	p9
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931022490				
Layer:	3				
Color:					
General Color:					
Mat1:	11				
Most Common Material:	GRAVEL				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	46				
Formation End Depth:	48				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931022491				
Layer:	4				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	48				
Formation End Depth:	147				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931022488				
Layer:	1				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Mat2 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		43			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931022489			
Layer:		2			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		43			
Formation End Depth:		46			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513130			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10583688			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930062222			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		147			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930062221			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		49			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Results of Well Yield Testing

Pump Test ID: 991513130
Pump Set At:
Static Level: 71
Final Level After Pumping: 90
Recommended Pump Depth: 80
Pumping Rate: 9
Flowing Rate:
Recommended Pump Rate: 7
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933468631
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 147
Water Found Depth UOM: ft

3	1 of 1	N/66.8	76.5 / -1.33	lot 27 con 1 ON	WWIS
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Well ID: 1512335 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: 11/10/1972 Selected Flag: Yes Abandonment Rec: Contractor: 1504 Form Version: 1 Owner: Street Name: County: OTTAWA Municipality: CUMBERLAND TOWNSHIP Site Info: Lot: 027 Concession: 01 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512335.pdf

Bore Hole Information

Bore Hole ID: 10034327 DP2BR: 10 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole:	Elevation: 74.747116 Elevrc: Zone: 18 East83: 463530.8 North83: 5038232 Org CS:
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	4
Date Completed:	5/31/1972			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:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931020349			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		10			
Formation End Depth:		65			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931020348			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		10			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961512335			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10582897			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930060854			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		65			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930060853			
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			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991512335			
Pump Set At:					
Static Level:					
Final Level After Pumping:		5			
Recommended Pump Depth:		25			
Pumping Rate:		20			
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:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097988			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934647287			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934895861			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934376960				
Test Type:	Draw Down				
Test Duration:	30				
Test Level:	5				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	933467738				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	65				
Water Found Depth UOM:	ft				

<u>4</u>	1 of 1	ESE/96.1	85.2 / 7.33	lot 27 con 1 ON	WWIS
Well ID:	1514989				
Construction Date:				Data Entry Status:	
Primary Water Use:	Domestic			Data Src:	1
Sec. Water Use:	0			Date Received:	10/6/1975
Final Well Status:	Water Supply			Selected Flag:	Yes
Water Type:				Abandonment Rec:	
Casing Material:				Contractor:	1558
Audit No:				Form Version:	1
Tag:				Owner:	
Construction Method:				Street Name:	
Elevation (m):				County:	OTTAWA
Elevation Reliability:				Municipality:	CUMBERLAND TOWNSHIP
Depth to Bedrock:				Site Info:	
Well Depth:				Lot:	027
Overburden/Bedrock:				Concession:	01
Pump Rate:				Concession Name:	OF
Static Water Level:				Easting NAD83:	
Flowing (Y/N):				Northing NAD83:	
Flow Rate:				Zone:	
Clear/Cloudy:				UTM Reliability:	
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514989.pdf				

Bore Hole Information

Bore Hole ID:	10036954	Elevation:	85.231178
DP2BR:	76	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463628.8
Code OB Desc:	Bedrock	North83:	5038131
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	9/26/1975	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:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027894			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		17			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027896			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:		79			
Mat3 Desc:		PACKED			
Formation Top Depth:		68			
Formation End Depth:		76			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027897			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		85			
Mat2 Desc:		SOFT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		76			
Formation End Depth:		298			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027895			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		17			
Formation End Depth:		68			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961514989			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10585524			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930065329			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		298			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Casing</u>					
Casing ID:		930065328			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		78			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		991514989			
Pump Set At:					
Static Level:		75			
Final Level After Pumping:		175			
Recommended Pump Depth:		175			
Pumping Rate:		3			
Flowing Rate:					
Recommended Pump Rate:		3			
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			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934894332			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		175			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934384642			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		175			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934100791			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		175			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934645208			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		175			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933470974			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		165			
Water Found Depth UOM:		ft			

5	1 of 1	S/133.7	84.6 / 6.73	lot 27 con 1 ON	WWIS
Well ID:		1512408		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	4/24/1973
Sec. Water Use:		0		Selected Flag:	Yes
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	01

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden/Bedrock:				Concession Name:	OF
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\1512408.pdf

Bore Hole Information

Bore Hole ID:	10034399	Elevation:	80.668151
DP2BR:	70	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463540.8
Code OB Desc:	Bedrock	North83:	5038032
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	7/18/1972	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:	931020546
Layer:	3
Color:	8
General Color:	BLACK
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	60
Formation End Depth:	70
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	931020547
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	70
Formation End Depth:	85
Formation End Depth UOM:	ft

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		931020544			
Layer:		1			
Color:		7			
General Color:		RED			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931020545			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		20			
Formation End Depth:		60			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961512408			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10582969			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930060968			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		70			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930060969			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		85			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991512408			
Pump Set At:					
Static Level:		50			
Final Level After Pumping:		65			
Recommended Pump Depth:		80			
Pumping Rate:		7			
Flowing Rate:					
Recommended Pump Rate:		4			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934377445			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		65			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934647770			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		65			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934895926			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		65			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934098051			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		60			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		933467864			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		85			
Water Found Depth UOM:		ft			
6	1 of 1	W/181.3	68.5 / -9.39	Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	EHS
Order No:	20180813026			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	23-AUG-18			Search Radius (km):	.25
Date Received:	13-AUG-18			X:	-75.468974
Previous Site Name:				Y:	45.496013
Lot/Building Size:					
Additional Info Ordered:					
7	1 of 1	S/197.2	84.2 / 6.36	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON	WWIS
Well ID:	1534641			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	6/7/2004
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1119
Casing Material:				Form Version:	3
Audit No:	Z04889			Owner:	
Tag:	A004703			Street Name:	1154 OLD MONTREAL RD
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534641.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	11104907			Elevation:	82.109863
DP2BR:	55			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	463525
Code OB Desc:	Bedrock			North83:	5037969
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	5
Date Completed:	4/2/2004			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932955258			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		16.8			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932955259			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		16.8			
Formation End Depth:		85.3			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933248746			
Layer:		1			
Plug From:		17.7			
Plug To:		14.6			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933248747			
Layer:		2			
Plug From:		14.6			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961534641			
Method Construction Code:		5			
Method Construction:		Air Percussion			

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

Pipe Information

Pipe ID: 11109417
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930837432
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 17.7
Depth To: 85.3
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930837431
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 18.3
Casing Diameter: 15.88
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11117420
Pump Set At:
Static Level: 30.57
Final Level After Pumping: 59.3
Recommended Pump Depth: 79.2
Pumping Rate: 15.1
Flowing Rate:
Recommended Pump Rate: 15.1
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:

Draw Down & Recovery

Pump Test Detail ID: 11124802
Test Type: Draw Down
Test Duration: 5
Test Level: 35.3
Test Level UOM: m

Draw Down & Recovery

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Pump Test Detail ID:</i>		11124819			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		47.65			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124743			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		0			
<i>Test Level:</i>		30.57			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124804			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		41.1			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124823			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		36.84			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124821			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		41.1			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124814			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		55.5			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124805			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		43.4			
<i>Test Level UOM:</i>		m			
 <i><u>Draw Down & Recovery</u></i>					
<i>Pump Test Detail ID:</i>		11124744			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		59.3			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124822			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		39			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124820			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		45.08			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124807			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		48.58			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124817			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		50.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124808			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		54.1			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124811			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		58.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124812			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		57.4			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124806			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		46.3			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124816			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		52.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124803			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		38.2			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124813			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		56.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124801			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		34.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124799			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		33.2			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124745			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		32.44			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124809			
Test Type:		Draw Down			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>		50			
<i>Test Level:</i>		56.8			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11124810			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		59.3			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11124818			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		48.6			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11124800			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		33.9			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11124815			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		5			
<i>Test Level:</i>		54.9			
<i>Test Level UOM:</i>		m			
<u>Water Details</u>					
<i>Water ID:</i>		934046436			
<i>Layer:</i>		1			
<i>Kind Code:</i>		5			
<i>Kind:</i>		Not stated			
<i>Water Found Depth:</i>		37.5			
<i>Water Found Depth UOM:</i>		m			
<u>Water Details</u>					
<i>Water ID:</i>		934046437			
<i>Layer:</i>		2			
<i>Kind Code:</i>		5			
<i>Kind:</i>		Not stated			
<i>Water Found Depth:</i>		85.3			
<i>Water Found Depth UOM:</i>		m			
<u>Hole Diameter</u>					
<i>Hole ID:</i>		11109416			
<i>Diameter:</i>		15.24			
<i>Depth From:</i>		0			
<i>Depth To:</i>		85.3			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
8	1 of 1	W/198.5	67.3 / -10.60	1123 Old Montreal Rd Ottawa ON K4A3N6	EHS
Order No:	20180323180			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-APR-18			Search Radius (km):	.25
Date Received:	23-MAR-18			X:	-75.469172
Previous Site Name:				Y:	45.496312
Lot/Building Size:					
Additional Info Ordered:					
9	1 of 1	SSE/203.2	86.0 / 8.12	1154-1208 Old Montreal Rd Ottawa ON	EHS
Order No:	20160711137			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	18-JUL-16			Search Radius (km):	.25
Date Received:	11-JUL-16			X:	-75.46618
Previous Site Name:				Y:	45.494271
Lot/Building Size:					
Additional Info Ordered:					
10	1 of 1	SW/203.9	77.2 / -0.66	lot 28 con 1 ON	WWIS
Well ID:	1513134			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	8/27/1963
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
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\1513134.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	10035122			Elevation:	71.379852
DP2BR:	53			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	463450.8
Code OB Desc:	Bedrock			North83:	5037982
Open Hole:				Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	5
Date Completed:	8/13/1963			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931022499			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		53			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931022500			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		53			
Formation End Depth:		66			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513134			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10583692			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930062229			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer: 1					
Material: 1					
Open Hole or Material: STEEL					
Depth From:					
Depth To: 56					
Casing Diameter: 2					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Construction Record - Casing</u>					
Casing ID: 930062230					
Layer: 2					
Material: 4					
Open Hole or Material: OPEN HOLE					
Depth From:					
Depth To: 66					
Casing Diameter: 2					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Results of Well Yield Testing</u>					
Pump Test ID: 991513134					
Pump Set At:					
Static Level: 32					
Final Level After Pumping: 45					
Recommended Pump Depth: 45					
Pumping Rate: 8					
Flowing Rate:					
Recommended Pump Rate: 8					
Levels UOM: ft					
Rate UOM: GPM					
Water State After Test Code: 1					
Water State After Test: CLEAR					
Pumping Test Method: 1					
Pumping Duration HR: 2					
Pumping Duration MIN: 0					
Flowing: No					
<u>Water Details</u>					
Water ID: 933468635					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 66					
Water Found Depth UOM: ft					
11	1 of 2	WSW/208.5	69.1 / -8.75	OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON	WWIS
Well ID: 1534786					
Construction Date:					
Primary Water Use:					
Sec. Water Use:					
Final Well Status: Water Supply					
Water Type:					
Casing Material:					
Audit No: Z04951					
Tag: A004809					
Construction Method:					
Data Entry Status:					
Data Src: 1					
Date Received: 7/6/2004					
Selected Flag: Yes					
Abandonment Rec:					
Contractor: 1119					
Form Version: 3					
Owner:					
Street Name: OLD MONTREAL ROAD					
County: OTTAWA					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Municipality: CUMBERLAND TOWNSHIP Site Info: PORT 1-3 PLAN 50R-7211 Lot: 025 Concession: 01 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534786.pdf			

Bore Hole Information

Bore Hole ID:	11172538	Elevation:	68.602149
DP2BR:	45	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463376
Code OB Desc:	Bedrock	North83:	5038036
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	5/13/2004	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:	932968162
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	13.7
Formation End Depth:	89.9
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	932968160
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	10.4

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932968161			
Layer:		2			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top Depth:		10.4			
Formation End Depth:		13.7			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933252959			
Layer:		1			
Plug From:		14.6			
Plug To:		1.6			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933252960			
Layer:		2			
Plug From:		11.6			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961534786			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11181057			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930842632			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		15.2			
Casing Diameter:		15.88			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930842633			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		14.6			
Depth To:		89.9			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11189448			
Pump Set At:					
Static Level:		21.48			
Final Level After Pumping:		49.48			
Recommended Pump Depth:		85.3			
Pumping Rate:		18.9			
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:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210366			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		22.22			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210654			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		35.17			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210650			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		44.31			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210665			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		49.48			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210644			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		46.7			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210651			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		29.17			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210660			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		33.09			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210647			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		24.91			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210663			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		46.92			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210656			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		37.03			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210646			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		45.94			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210659			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		39.8			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210662			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		25.76			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210649			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		25.68			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210642			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		47.27			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210664			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		27.25			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210666			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		25.18			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210661			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		43.69			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11210655			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		34.98			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210653			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		32.22			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210643			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		23.2			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210658			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		34.96			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210648			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		44.87			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210657			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		37.46			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210652			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		42.96			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210645			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		24.1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:	934050149				
Layer:	2				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	88.4				
Water Found Depth UOM:	m				
<u>Water Details</u>					
Water ID:	934050148				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	82.9				
Water Found Depth UOM:	m				
<u>Hole Diameter</u>					
Hole ID:	11305596				
Diameter:	14.59				
Depth From:	0				
Depth To:	28.95				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				

11	2 of 2	WSW/208.5	69.1 / -8.75	1123 OLD MONTREAL ROAD lot 28 Ottawa ON	WWIS
Well ID:	7235406		Data Entry Status:		
Construction Date:			Data Src:		
Primary Water Use:	Not Used		Date Received: 1/14/2015		
Sec. Water Use:			Selected Flag: Yes		
Final Well Status:	Abandoned-Other		Abandonment Rec: Yes		
Water Type:			Contractor: 4875		
Casing Material:			Form Version: 7		
Audit No:	Z190192		Owner:		
Tag:	A004809		Street Name: 1123 OLD MONTREAL ROAD		
Construction Method:			County: OTTAWA		
Elevation (m):			Municipality: CUMBERLAND TOWNSHIP		
Elevation Reliability:			Site Info:		
Depth to Bedrock:			Lot: 028		
Well Depth:			Concession:		
Overburden/Bedrock:			Concession Name: OF		
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/723\7235406.pdf

Bore Hole Information

Bore Hole ID:	1005280468	Elevation:	68.612686
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	463376
Code OB Desc:		North83:	5038036

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole: Cluster Kind: Date Completed: 11/4/2014 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:				Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr	
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005480944			
Layer:		1			
Plug From:		0			
Plug To:		66.56			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005480943			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005480936			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1005480940			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1005480941			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Water Details</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		1005480939			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005480938			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

12	1 of 1	SSW/220.2	77.2 / -0.66	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON	WWIS
Well ID:	1534642			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Not Used			Date Received:	6/7/2004
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Quality			Abandonment Rec:	
Water Type:				Contractor:	1119
Casing Material:				Form Version:	3
Audit No:	Z04891			Owner:	
Tag:	A004710			Street Name:	1154 OLD MONTREAL RD
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534642.pdf

Bore Hole Information

Bore Hole ID:	11104908	Elevation:	74.444313
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	—	East83:	463469
Code OB Desc:	No formation data	North83:	5037957
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	5
Date Completed:	4/6/2004	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Method Construction ID: 961534642
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11109418
Casing No: 1
Comment:
Alt Name:

13	1 of 2	N/220.4	73.5 / -4.36	lot 27 ON	WWIS
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Well ID: 1526501 Construction Date: Primary Water Use: Commerical Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: 110670 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	Data Entry Status: Data Src: 1 Date Received: 9/9/1992 Selected Flag: Yes Abandonment Rec: Contractor: 1504 Form Version: 1 Owner: Street Name: County: OTTAWA Municipality: CUMBERLAND TOWNSHIP Site Info: Lot: 027 Concession: Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1526501.pdf

Bore Hole Information

Bore Hole ID: 10048203 DP2BR: 12 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 9/1/1992 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	Elevation: 72.888916 Elevrc: Zone: 18 East83: 463532 North83: 5038386 Org CS: UTM83 UTMRC: 7 UTMRC Desc: margin of error : 1 km - 3 km Location Method: lot
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**Overburden and Bedrock
Materials Interval**

Formation ID: 931064344
Layer: 1

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		05			
<i>Most Common Material:</i>		CLAY			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		0			
<i>Formation End Depth:</i>		12			
<i>Formation End Depth UOM:</i>		ft			
<u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>		931064345			
<i>Layer:</i>		2			
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		15			
<i>Most Common Material:</i>		LIMESTONE			
<i>Mat2:</i>		19			
<i>Mat2 Desc:</i>		SLATE			
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		12			
<i>Formation End Depth:</i>		204			
<i>Formation End Depth UOM:</i>		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
<i>Plug ID:</i>		933111747			
<i>Layer:</i>		1			
<i>Plug From:</i>		0			
<i>Plug To:</i>		38			
<i>Plug Depth UOM:</i>		ft			
<u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>		961526501			
<i>Method Construction Code:</i>		4			
<i>Method Construction:</i>		Rotary (Air)			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		10596773			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930084410			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		204			
<i>Casing Diameter:</i>		6			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930084409			
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			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991526501			
Pump Set At:					
Static Level:		79			
Final Level After Pumping:		203			
Recommended Pump Depth:		189			
Pumping Rate:		25			
Flowing Rate:					
Recommended Pump Rate:		25			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934391512			
Test Type:					
Test Duration:		30			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934107879			
Test Type:					
Test Duration:		15			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934652030			
Test Type:					
Test Duration:		45			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934909227			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:					
Test Duration:		60			
Test Level:		79			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933485843			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		194			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933485842			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		176			
Water Found Depth UOM:		ft			

13	2 of 2	N/220.4	73.5 / -4.36	lot 27 ON	WWIS
Well ID:	1528921			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	5/22/1996
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:	158973			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	OF
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\1528921.pdf

Bore Hole Information

Bore Hole ID:	10050457	Elevation:	72.888916
DP2BR:	12	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	y	East83:	463532
Code OB Desc:	Unknown type (bedrock encountered)	North83:	5038386
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	7
Date Completed:	9/7/1995	UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931071205			
Layer:		3			
Color:					
General Color:					
Mat1:		00			
Most Common Material:		UNKNOWN TYPE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		180			
Formation End Depth:		204			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931071203			
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:		12			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931071204			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12			
Formation End Depth:		180			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933113913			
Layer:		1			
Plug From:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		38			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933113914			
Layer:		2			
Plug From:		180			
Plug To:		204			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961528921			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10599027			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930088169			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		204			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930088168			
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			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991528921			
Pump Set At:					
Static Level:		79			
Final Level After Pumping:		180			
Recommended Pump Depth:		175			
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		12			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934907105			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934389405			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934105779			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		79			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934658580			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		79			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933488801			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		176			
Water Found Depth UOM:		ft			

[14](#)

1 of 1

WSW/237.9

68.8 / -9.07

Word of Life Church (Ottawa/Hull)
1123 Queen Street (Old Montreal Road)
Ottawa ON

CA

Certificate #: 5012-66KQTM
Application Year: 2004
Issue Date: 11/26/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Client Address:
 Client City:
 Client Postal Code:
 Project Description:
 Contaminants:
 Emission Control:

15	1 of 1	N/239.1	72.6 / -5.26	lot 27 con 1 ON	WWIS
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Well ID:	1532616	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/31/2002
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1517
Casing Material:		Form Version:	1
Audit No:	235687	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	027
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
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\1532616.pdf

Bore Hole Information

Bore Hole ID:	10523745	Elevation:	72.26332
DP2BR:	0	Elevrc:	
Spatial Status:	Improved	Zone:	18
Code OB:	r	East83:	463519
Code OB Desc:	Bedrock	North83:	5038404
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	8/27/2001	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:	1999-2004 MOE Water Well Data Improvement Project		
Improvement Location Method:	GIS10000		
Source Revision Comment:	Northing and/or Easting field has been changed. Reasonably sure well location matches sketch map (similar features).well only moved to given lot and con		
Supplier Comment:	Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a scale of 1:10000.		

Overburden and Bedrock Materials Interval

Formation ID:	932857287
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		65			
Formation End Depth:		126			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932857286			
Layer:		1			
Color:					
General Color:					
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		65			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961532616			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11072315			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930095234			
Layer:		1			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991532616			
Pump Set At:					
Static Level:		28			
Final Level After Pumping:		30			
Recommended Pump Depth:		90			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		20			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Levels UOM:</i>			ft		
<i>Rate UOM:</i>			GPM		
<i>Water State After Test Code:</i>			2		
<i>Water State After Test:</i>			CLOUDY		
<i>Pumping Test Method:</i>			2		
<i>Pumping Duration HR:</i>			1		
<i>Pumping Duration MIN:</i>			0		
<i>Flowing:</i>			No		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			934918846		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			60		
<i>Test Level:</i>			30		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			934661545		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			45		
<i>Test Level:</i>			30		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			934400465		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			30		
<i>Test Level:</i>			28		
<i>Test Level UOM:</i>			ft		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			934117410		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			15		
<i>Test Level:</i>			25		
<i>Test Level UOM:</i>			ft		
<u>Water Details</u>					
<i>Water ID:</i>			934016261		
<i>Layer:</i>			1		
<i>Kind Code:</i>			1		
<i>Kind:</i>			FRESH		
<i>Water Found Depth:</i>			122		
<i>Water Found Depth UOM:</i>			ft		

Unplottable Summary

Total: 23 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CUMBERLAND TOWNSHIP	OLD MONTREAL RD./BECKETT'S CK.	CUMBERLAND TWP. ON	
SPL	Enbridge Gas Distribution Inc.	Queen Street	Ottawa ON	
SPL	PAUL'S BACKHOE SERVICE	HWY 34 NORTH 5 - 5.5 MILES NORTH OF HWY 417 EAST 333 CHAMPLAIN ST., HAWKESBURY, ONT.	OTTAWA CITY ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	

WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 27	ON
WWIS	lot 28	ON

Unplottable Report

Site: CUMBERLAND TOWNSHIP
OLD MONTREAL RD./BECKETT'S CK. CUMBERLAND TWP. ON

Database:
CA

Certificate #: 3-0306-95-
Application Year: 95
Issue Date: 4/20/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Enbridge Gas Distribution Inc.
Queen Street Ottawa ON

Database:
SPL

Ref No:	0238-62NQJF	Discharger Report:	
Site No:		Material Group:	Gases/Particulate
Incident Dt:	7/7/2004	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Pipe Or Hose Leak	Sector Type:	Pipeline
Incident Event:		Agency Involved:	
Contaminant Code:	35	Nearest Watercourse:	
Contaminant Name:	NATURAL GAS (METHANE)	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	Eastern
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Human Health/Safety	Site Lot:	
Receiving Medium:	Air	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/7/2004	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	M.C.B.S. - Fuel Safety
Incident Reason:	Error- Operator error	Source Type:	
Site Name:	QUEEN STREET<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Queen St.: 4" Gas main hit, evacuations		
Contaminant Qty:			

Site: PAUL'S BACKHOE SERVICE
HWY 34 NORTH 5 - 5.5 MILES NORTH OF HWY 417 EAST 333 CHAMPLAIN ST., HAWKESBURY, ONT. OTTAWA CITY ON

Database:
SPL

Ref No:	224046	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	4/15/2002	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	UNKNOWN	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	

Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND / WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/15/2002
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20107
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

PAUL'S BACKHOE SERVICE SPILL UNKNOWN VOL OF GAS & WATER, CONTAINED

Site: lot 27 ON

Database:
WWIS

Well ID: 1520769
Construction Date:
Primary Water Use: Commerical
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/25/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042610
DP2BR: 21
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/22/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931045764
Layer: 3
Color: 3

General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 21
Formation End Depth: 40
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045763
Layer: 2
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 19
Formation End Depth: 21
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045762
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 19
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961520769
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10591180
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074370
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520769
Pump Set At:
Static Level: 8
Final Level After Pumping: 12
Recommended Pump Depth: 20
Pumping Rate: 40
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: 25
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934387932
Test Type: Draw Down
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649508
Test Type: Draw Down
Test Duration: 45
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104812
Test Type: Draw Down
Test Duration: 15
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906588
Test Type: Draw Down
Test Duration: 60
Test Level: 12
Test Level UOM: ft

Water Details

Water ID: 933478114
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 38
Water Found Depth UOM: ft

Site:
lot 27 ON

Database:
WWIS

Well ID: 1518033
Construction Date:
Primary Water Use: Cooling And A/C
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/13/1982
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10039904
DP2BR: 15
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 1/29/1982
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock

Materials Interval

Formation ID: 931037130
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 15
Formation End Depth: 27
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931037131
Layer: 4
Color: 2
General Color: GREY

Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 27
Formation End Depth: 100
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037129
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 10
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037128
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 10
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961518033
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10588474
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930069713
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:

Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930069712
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

Results of Well Yield Testing

Pump Test ID: 991518033
Pump Set At:
Static Level: 15
Final Level After Pumping: 50
Recommended Pump Depth: 60
Pumping Rate: 10
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: 934896797
Test Type: Draw Down
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934647523
Test Type: Draw Down
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934377689
Test Type: Draw Down
Test Duration: 30
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934103360
Test Type: Draw Down
Test Duration: 15

Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933474659
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 97
Water Found Depth UOM: ft

Site:
lot 27 ON

Database:
WWIS

Well ID: 1520967
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 02061
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: 11/24/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042808
DP2BR: 5
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 9/5/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931046426
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: 5
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931046427
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 5
Formation End Depth: 290
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109294
Layer: 1
Plug From: 0
Plug To: 40
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961520967
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591378
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074715
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 40
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074716
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 290

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

Results of Well Yield Testing

Pump Test ID: 991520967
Pump Set At:
Static Level: 100
Final Level After Pumping: 280
Recommended Pump Depth: 280
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: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934389513
Test Type:
Test Duration: 30
Test Level: 280
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104296
Test Type:
Test Duration: 15
Test Level: 280
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650108
Test Type:
Test Duration: 45
Test Level: 280
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907753
Test Type:
Test Duration: 60
Test Level: 280
Test Level UOM: ft

Water Details

Water ID: 933478389
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 280
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1521841
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 12546
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/22/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043654
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 9/24/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931049338
Layer: 2
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 23
Formation End Depth: 36
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931049339
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11

Most Common Material: GRAVEL
Mat2: 31
Mat2 Desc: COARSE GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 36
Formation End Depth: 37
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931049337
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 23
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961521841
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10592224
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930076274
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 37
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521841
Pump Set At:
Static Level: 8
Final Level After Pumping: 17
Recommended Pump Depth: 32
Pumping Rate: 45
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: 10
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934910609
Test Type: Draw Down
Test Duration: 60
Test Level: 17
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653378
Test Type: Draw Down
Test Duration: 45
Test Level: 17
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934391259
Test Type: Draw Down
Test Duration: 30
Test Level: 17
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108135
Test Type: Draw Down
Test Duration: 15
Test Level: 16
Test Level UOM: ft

Water Details

Water ID: 933479548
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1532811
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 235694
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 5/6/2002
Selected Flag: Yes
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:

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

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10523939
DP2BR: 11
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 4/5/2002
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock

Materials Interval

Formation ID: 932857799
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 14
Formation End Depth: 200
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932857797
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2: 05
Mat2 Desc: CLAY
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0
Formation End Depth: 11
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932857798
Layer: 2
Color: 8
General Color: BLACK
Mat1: 17

Most Common Material: SHALE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 11
Formation End Depth: 14
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932857800
Layer: 4
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 200
Formation End Depth: 260
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933225449
Layer: 1
Plug From: 3
Plug To: 42
Plug Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961532811
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11072509
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930095644
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: 991532811

Pump Set At:
Static Level: 120
Final Level After Pumping: 230
Recommended Pump Depth: 250
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934117974
Test Type: Draw Down
Test Duration: 15
Test Level: 190
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934662109
Test Type: Draw Down
Test Duration: 45
Test Level: 220
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934401586
Test Type: Draw Down
Test Duration: 30
Test Level: 210
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934919410
Test Type: Draw Down
Test Duration: 60
Test Level: 230
Test Level UOM: ft

Water Details

Water ID: 934016522
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 255
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1531002
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply

Data Entry Status:
Data Src: 1
Date Received: 1/21/2000
Selected Flag: Yes
Abandonment Rec:

Water Type:
Casing Material:
Audit No: 191606
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:

Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052536
DP2BR: 106
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 10/27/1999
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock

Materials Interval

Formation ID: 931077216
Layer: 2
Color: 4
General Color: GREEN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931077220
Layer: 6
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 106
Formation End Depth: 108
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077218
Layer: 4
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 38
Formation End Depth: 100
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077215
Layer: 1
Color: 6
General Color: BROWN
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2: 81
Mat2 Desc: SANDY
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077219
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 08
Mat2 Desc: FINE SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 100
Formation End Depth: 106
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077217
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 18

Formation End Depth: 38
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933116179
Layer: 1
Plug From: 3
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961531002
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10601106
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091783
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 110
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531002
Pump Set At:
Static Level: 15
Final Level After Pumping: 30
Recommended Pump Depth: 60
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 12
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:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934395435
Test Type: Draw Down
Test Duration: 30
Test Level: 26
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934120579
Test Type: Draw Down
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934664717
Test Type: Draw Down
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903896
Test Type: Draw Down
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933491324
Layer: 1
Kind Code: 2
Kind: SALTY
Water Found Depth: 106
Water Found Depth UOM: ft

Site:
lot 27 ON

Database:
WWIS

Well ID: 1529773
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 184958
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: 12/11/1997
Selected Flag: Yes
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051308
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden

Elevation:
Elevrc:
Zone: 18
East83:
North83:

Open Hole:
Cluster Kind:
Date Completed: 11/19/1997
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: na

Overburden and Bedrock
Materials Interval

Formation ID: 931073779
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931073780
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 17
Formation End Depth: 27
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933114842
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961529773
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10599878
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930089576
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 27
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991529773
Pump Set At:
Static Level: 10
Final Level After Pumping: 10
Recommended Pump Depth: 25
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934909804
Test Type: Recovery
Test Duration: 60
Test Level: 10
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934116712
Test Type: Recovery
Test Duration: 15
Test Level: 10
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934391686
Test Type: Recovery
Test Duration: 30
Test Level: 10
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934660848
Test Type: Recovery
Test Duration: 45
Test Level: 10
Test Level UOM: ft

Water Details

Water ID: 933489829
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1528721
Construction Date:
Primary Water Use: Commerical
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 139536
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/19/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050257
DP2BR: 17
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 1/30/1995
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931070584
Layer: 3
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 17
Formation End Depth: 20

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931070583
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 14
Mat2 Desc: HARDPAN
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 4
Formation End Depth: 17
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931070585
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 20
Formation End Depth: 61
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931070582
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: 4
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113662
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528721

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

Pipe Information

Pipe ID: 10598827
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087834
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: 991528721
Pump Set At:
Static Level: 6
Final Level After Pumping: 15
Recommended Pump Depth: 40
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934105216
Test Type: Draw Down
Test Duration: 15
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649359
Test Type: Draw Down
Test Duration: 45
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388842
Test Type: Draw Down
Test Duration: 30
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906541
Test Type: Draw Down
Test Duration: 60
Test Level: 15
Test Level UOM: ft

Water Details

Water ID: 933488537
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1526147
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 095195
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: 5/28/1992
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047880
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 3/31/1992
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931063367
Layer: 3
Color: 8

General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 61
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931063366
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6
Formation End Depth: 61
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931063365
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: 6
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933111547
Layer: 1
Plug From: 4
Plug To: 25
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961526147
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10596450
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083817
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 68
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526147
Pump Set At:
Static Level: 24
Final Level After Pumping: 56
Recommended Pump Depth: 63
Pumping Rate: 11
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 20
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934390373
Test Type:
Test Duration: 30
Test Level: 52
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106739
Test Type:
Test Duration: 15
Test Level: 43
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908093
Test Type:
Test Duration: 60
Test Level: 56
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650895
Test Type:
Test Duration: 45
Test Level: 56
Test Level UOM: ft

Water Details

Water ID: 933485366
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1525587
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 69591
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/12/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047322
DP2BR: 17
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/22/1991
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931061701
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 17
Formation End Depth: 21

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061700
Layer: 1
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 05
Mat2 Desc: CLAY
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0
Formation End Depth: 17
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061702
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 21
Formation End Depth: 230
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111310
Layer: 1
Plug From: 3
Plug To: 44
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525587
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595892
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082844
Layer: 1
Material: 1

Open Hole or Material: STEEL
Depth From:
Depth To: 44
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525587
Pump Set At:
Static Level: 25
Final Level After Pumping: 125
Recommended Pump Depth: 150
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934906341
Test Type:
Test Duration: 60
Test Level: 125
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388204
Test Type:
Test Duration: 30
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104546
Test Type:
Test Duration: 15
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649161
Test Type:
Test Duration: 45
Test Level: 100
Test Level UOM: ft

Water Details

Water ID: 933484624
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 225

Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1525461
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 89569
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/12/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047199
DP2BR: 42
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 4/30/1991
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock

Materials Interval

Formation ID: 931061219
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0
Formation End Depth: 40
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061220
Layer: 2
Color: 2

General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 40
Formation End Depth: 42
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061222
Layer: 4
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 46
Formation End Depth: 48
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061221
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 80
Mat2 Desc: POROUS
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 42
Formation End Depth: 46
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111216
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525461
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595769
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082639
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 48
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082638
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 46
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525461
Pump Set At:
Static Level: 7
Final Level After Pumping: 40
Recommended Pump Depth: 42
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 7
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934648645
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387688
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112284

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

Draw Down & Recovery

Pump Test Detail ID: 934905825
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933484460
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48
Water Found Depth UOM: ft

Site:
lot 27 ON

Database:
WWIS

Well ID:	1524477	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	5/22/1990
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1517
Casing Material:		Form Version:	1
Audit No:	66786	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	027
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10046227	Elevation:	
DP2BR:	6	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	3/13/1990	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931058056
Layer: 3
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 80
Formation End Depth: 210
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931058054
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931058055
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6
Formation End Depth: 80
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931058057
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 210
Formation End Depth: 290
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110768
Layer: 1
Plug From: 2
Plug To: 40
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961524477
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10594797
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080933
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 40
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524477
Pump Set At:
Static Level: 20
Final Level After Pumping: 200
Recommended Pump Depth: 200
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: 934654049
Test Type:
Test Duration: 45
Test Level: 200
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934393083
Test Type:
Test Duration: 30
Test Level: 180
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902431
Test Type:
Test Duration: 60
Test Level: 200
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108856
Test Type:
Test Duration: 15
Test Level: 160
Test Level UOM: ft

Water Details

Water ID: 933483119
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 288
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1524452
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 53612
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: 5/3/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046202
DP2BR: 43
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 4/6/1990
Remarks:

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

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

Overburden and Bedrock
Materials Interval

Formation ID: 931057972
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 28
Formation End Depth: 43
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931057970
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931057971
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 15
Formation End Depth: 28
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931057973
Layer: 4
Color: 8
General Color: BLACK
Mat1: 17

Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 43
Formation End Depth: 44
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110747
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961524452
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10594772
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080906
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 43
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930080907
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 44
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524452
Pump Set At:
Static Level: 5
Final Level After Pumping: 15
Recommended Pump Depth: 40
Pumping Rate: 15

Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934393058
Test Type:
Test Duration: 30
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108831
Test Type:
Test Duration: 15
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653605
Test Type:
Test Duration: 45
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902406
Test Type:
Test Duration: 60
Test Level: 15
Test Level UOM: ft

Water Details

Water ID: 933483094
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 43
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1523902
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 44243
Tag:
Construction Method:

Data Entry Status:
Data Src: 1
Date Received: 10/12/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA

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

Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045674
DP2BR: 31
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 9/6/1989
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931056145
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 26
Formation End Depth: 31
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056144
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11
Formation End Depth: 26
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056146
Layer: 4
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 31
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056143
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 11
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933110472
Layer: 1
Plug From: 2
Plug To: 31
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961523902
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10594244
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079943
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523902
Pump Set At:
Static Level:
Final Level After Pumping: 35
Recommended Pump Depth: 35
Pumping Rate: 50
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934390892
Test Type:
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909070
Test Type:
Test Duration: 60
Test Level: 35
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106663
Test Type:
Test Duration: 15
Test Level: 28
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651866
Test Type:
Test Duration: 45
Test Level: 35
Test Level UOM: ft

Water Details

Water ID: 933482339
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 42
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1523901
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 44263
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/12/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045673
DP2BR: 35
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 9/6/1989
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931056142
Layer: 4
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 35
Formation End Depth: 50
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056141
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Mat2 Desc: SAND

Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 27
Formation End Depth: 35
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931056139
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 12
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931056140
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12
Formation End Depth: 27
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110471
Layer: 1
Plug From: 2
Plug To: 35
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523901
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10594243
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079942
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 35
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523901
Pump Set At:
Static Level:
Final Level After Pumping: 30
Recommended Pump Depth: 35
Pumping Rate: 45
Flowing Rate:
Recommended Pump Rate: 25
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934106662
Test Type:
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390891
Test Type:
Test Duration: 30
Test Level: 28
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909069
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651865
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933482338

Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1523827
Construction Date:
Primary Water Use: Public
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37633
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/11/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045600
DP2BR: 69
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/28/1989
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock

Materials Interval

Formation ID: 931055873
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 57
Formation End Depth: 69
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931055874
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 69
Formation End Depth: 93
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055871
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: 28
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055872
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 28
Formation End Depth: 57
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933110430
Layer: 1
Plug From: 6
Plug To: 25
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961523827
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10594170
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079817
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 69
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523827
Pump Set At:
Static Level: 54
Final Level After Pumping: 71
Recommended Pump Depth: 88
Pumping Rate: 29
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: 35
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934390829
Test Type: Draw Down
Test Duration: 30
Test Level: 70
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651803
Test Type: Draw Down
Test Duration: 45
Test Level: 71
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909009
Test Type: Draw Down
Test Duration: 60
Test Level: 71
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106599

Test Type: Draw Down
Test Duration: 15
Test Level: 64
Test Level UOM: ft

Water Details

Water ID: 933482239
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1523637
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37628
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/28/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045411
DP2BR: 89
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/16/1989
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931055307
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:

Mat3:
Mat3 Desc:
Formation Top Depth: 24
Formation End Depth: 73
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055309
Layer: 5
Color: 3
General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 89
Formation End Depth: 104
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055308
Layer: 4
Color: 8
General Color: BLACK
Mat1: 14
Most Common Material: HARDPAN
Mat2: 28
Mat2 Desc: SAND
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 73
Formation End Depth: 89
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055305
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: 9
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055306
Layer: 2
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 9
Formation End Depth: 24
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961523637
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593981
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079453
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 89
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523637
Pump Set At:
Static Level: 14
Final Level After Pumping: 92
Recommended Pump Depth: 100
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 40
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934390222
Test Type: Draw Down
Test Duration: 30
Test Level: 82
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105576

Test Type: Draw Down
Test Duration: 15
Test Level: 37
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650781
Test Type: Draw Down
Test Duration: 45
Test Level: 91
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908406
Test Type: Draw Down
Test Duration: 60
Test Level: 92
Test Level UOM: ft

Water Details

Water ID: 933481979
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 102
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1523456
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37602
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/20/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045231
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 5/31/1989
Remarks:
Elevrc Desc:

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

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

Overburden and Bedrock
Materials Interval

Formation ID: 931054676
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6
Formation End Depth: 37
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931054678
Layer: 4
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 52
Formation End Depth: 54
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931054677
Layer: 3
Color: 8
General Color: BLACK
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 37
Formation End Depth: 52
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931054675
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: 6
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110312
Layer: 1
Plug From: 6
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523456
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593801
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079150
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 54
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523456
Pump Set At:
Static Level: 18
Final Level After Pumping: 43
Recommended Pump Depth: 48
Pumping Rate: 12
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 50
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934907396
Test Type: Draw Down
Test Duration: 60
Test Level: 43
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389211
Test Type: Draw Down
Test Duration: 30
Test Level: 38
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650192
Test Type: Draw Down
Test Duration: 45
Test Level: 43
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104982
Test Type: Draw Down
Test Duration: 15
Test Level: 29
Test Level UOM: ft

Water Details

Water ID: 933481722
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 54
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
[WWIS](#)

Well ID: 1523046
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37566
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: 12/13/1988
Selected Flag: Yes
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10044852
DP2BR: 11
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 11/1/1988
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931053343
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
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: 931053344
Layer: 2
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11
Formation End Depth: 190
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933110081
Layer: 1
Plug From: 3
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961523046
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593422
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930078465
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: 991523046
Pump Set At:
Static Level: 8
Final Level After Pumping: 180
Recommended Pump Depth: 185
Pumping Rate: 1
Flowing Rate:
Recommended Pump Rate: 1
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 55
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934388042
Test Type: Draw Down
Test Duration: 30
Test Level: 180
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649024
Test Type: Draw Down
Test Duration: 45
Test Level: 180
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112621
Test Type: Draw Down
Test Duration: 15
Test Level: 110
Test Level UOM: ft

Water Details

Water ID: 933481150
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 29
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID:	1522253	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	4/8/1988
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2351
Casing Material:		Form Version:	1
Audit No:	12607	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10044066	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	2/1/1988	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931050711
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 17
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931050712
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 17
Formation End Depth: 23
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931050713
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 31
Mat2 Desc: COARSE GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 23
Formation End Depth: 32
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961522253
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10592636
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930077071
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 32
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991522253
Pump Set At:
Static Level: 9

Final Level After Pumping: 24
Recommended Pump Depth: 25
Pumping Rate: 23
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: 934385764
Test Type: Draw Down
Test Duration: 30
Test Level: 24
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934109361
Test Type: Draw Down
Test Duration: 15
Test Level: 18
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934654595
Test Type: Draw Down
Test Duration: 45
Test Level: 24
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903428
Test Type: Draw Down
Test Duration: 60
Test Level: 24
Test Level UOM: ft

Water Details

Water ID: 933480070
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 32
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-Dec 31, 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-Dec 31, 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 / 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 is 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-Dec 31, 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 30th, 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.

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Appendix F: Aerial Photographs

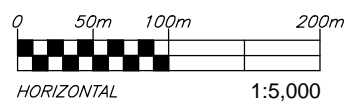


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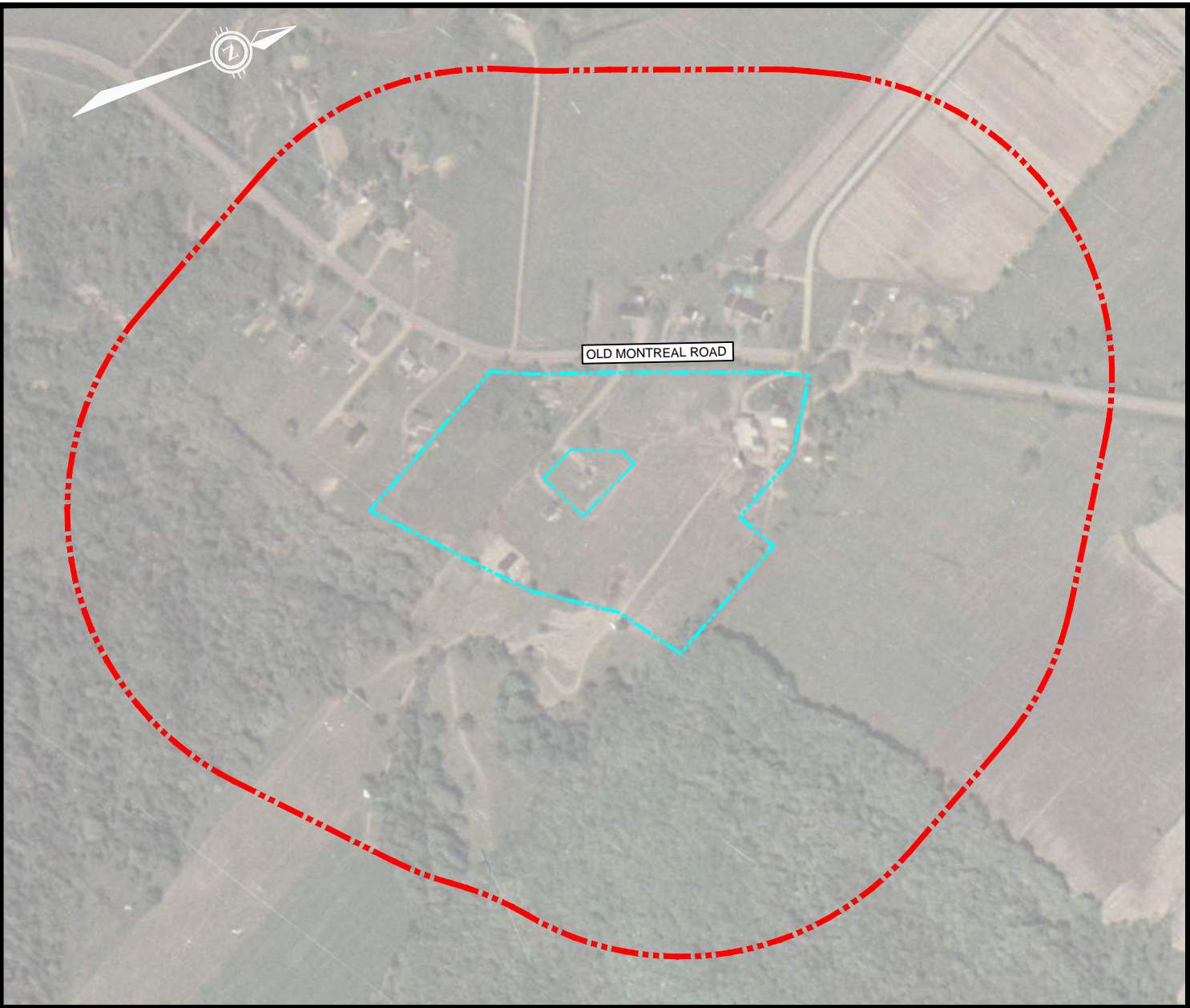
- PROPERTY BOUNDARY
- STUDY AREA (250m)



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 2650 Queensview Drive, Suite 100
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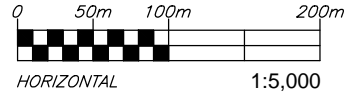
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M.M./L.W.	M.M.				FIG F1
DRAWN BY	T.M.				

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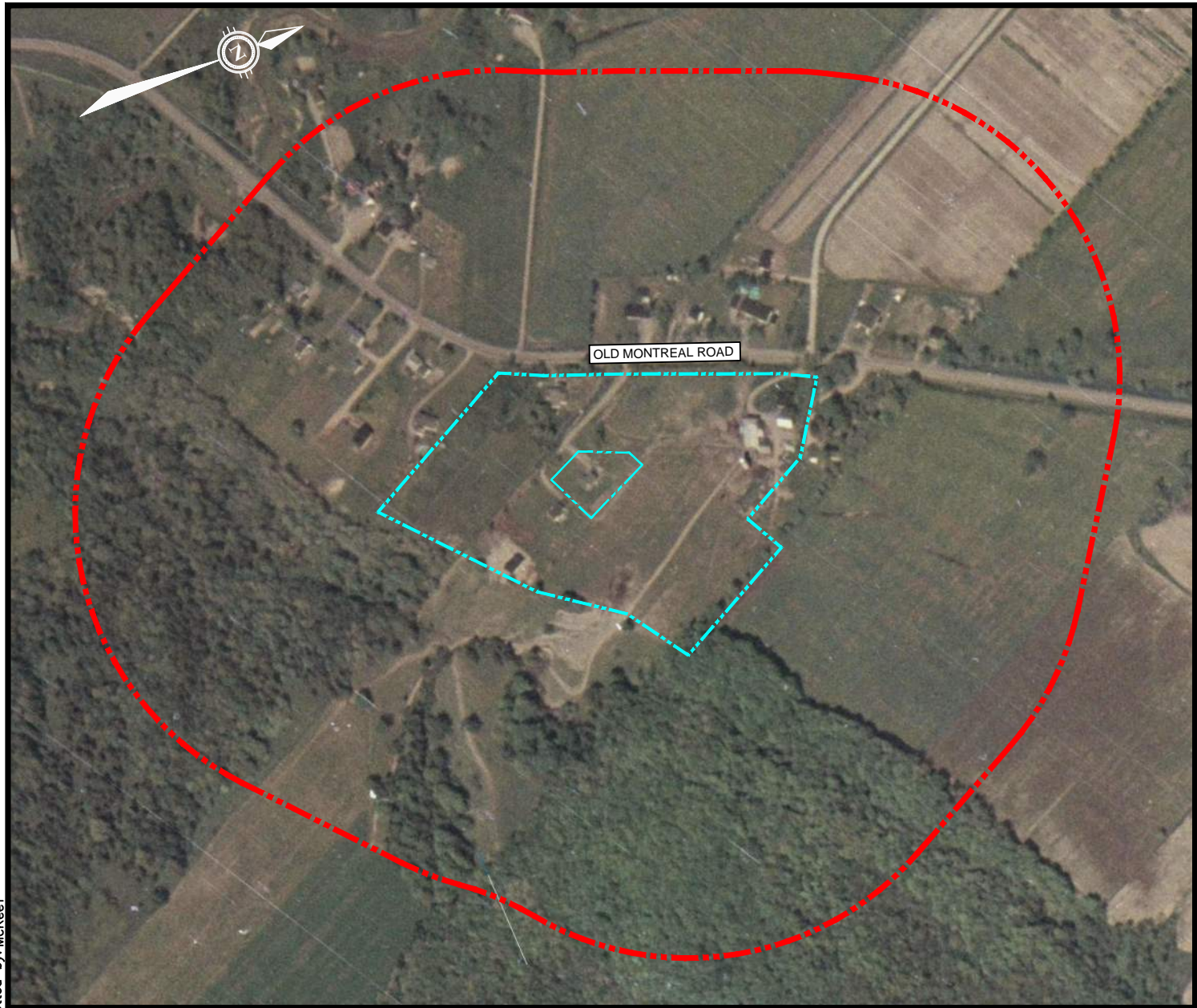
- PROPERTY BOUNDARY
- STUDY AREA (250m)



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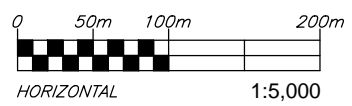
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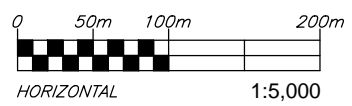
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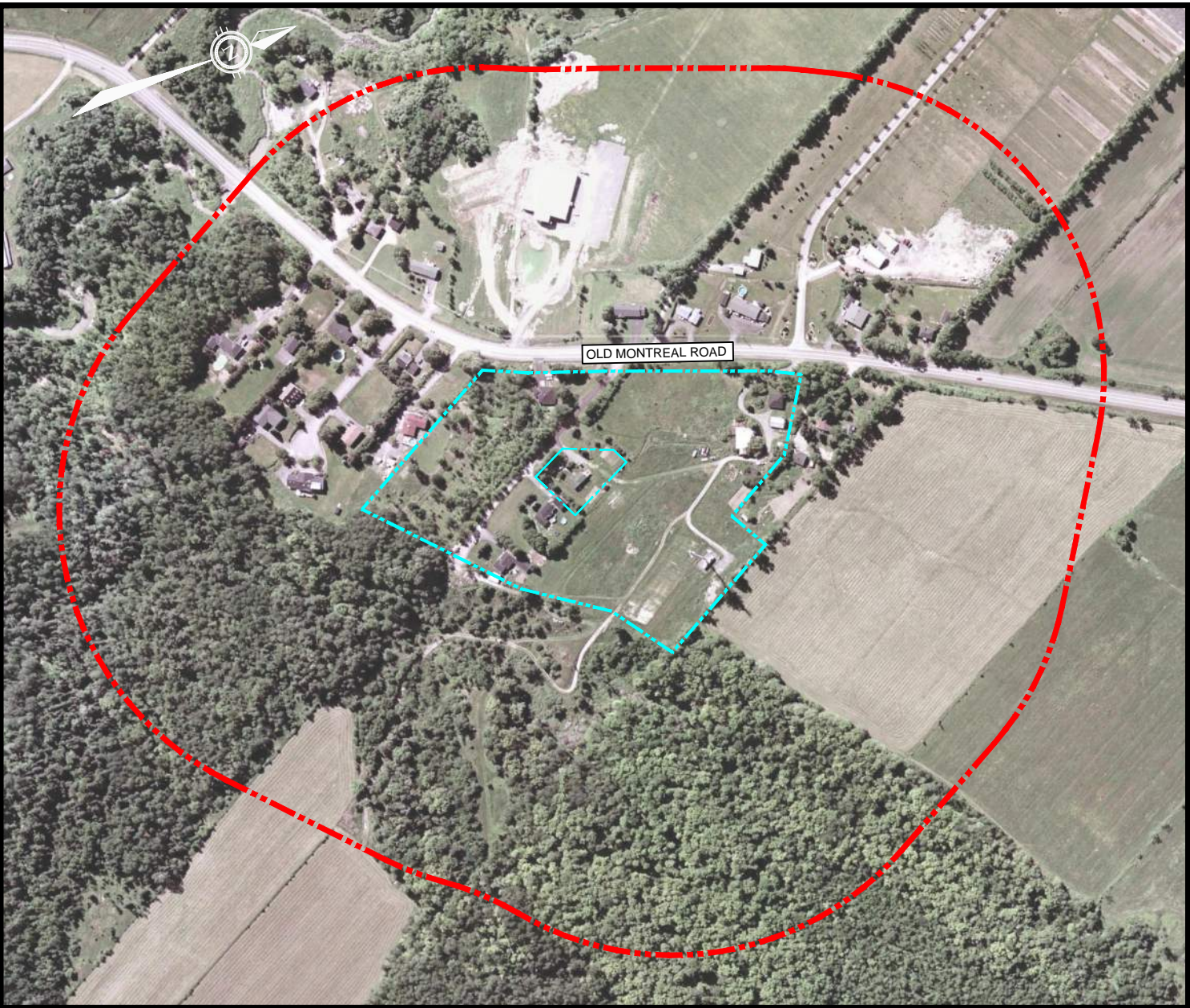
-  PROPERTY BOUNDARY
-  STUDY AREA (250m)



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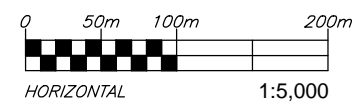
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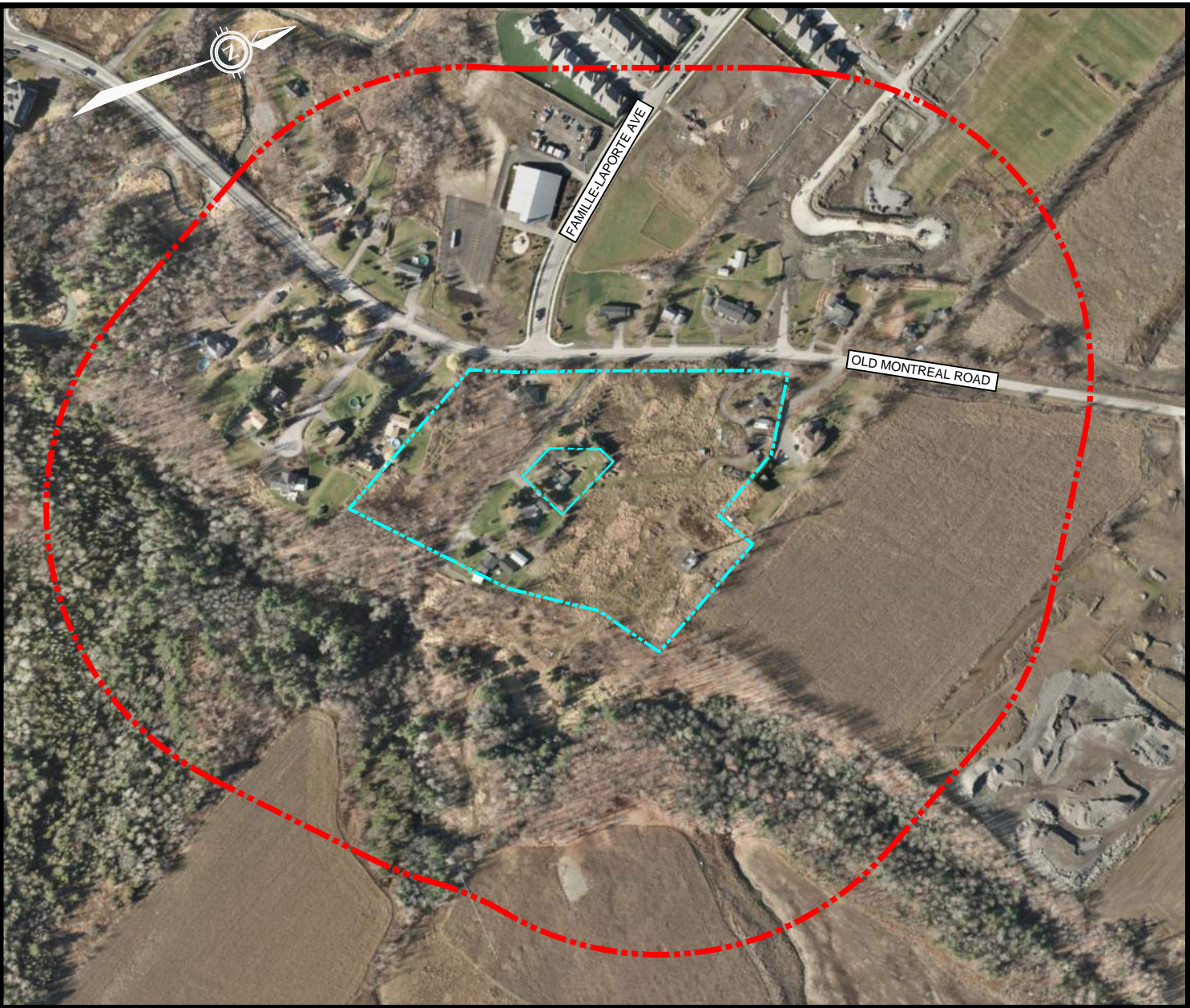
- PROPERTY BOUNDARY
- STUDY AREA (250m)



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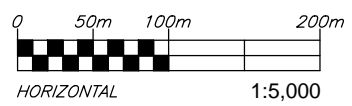
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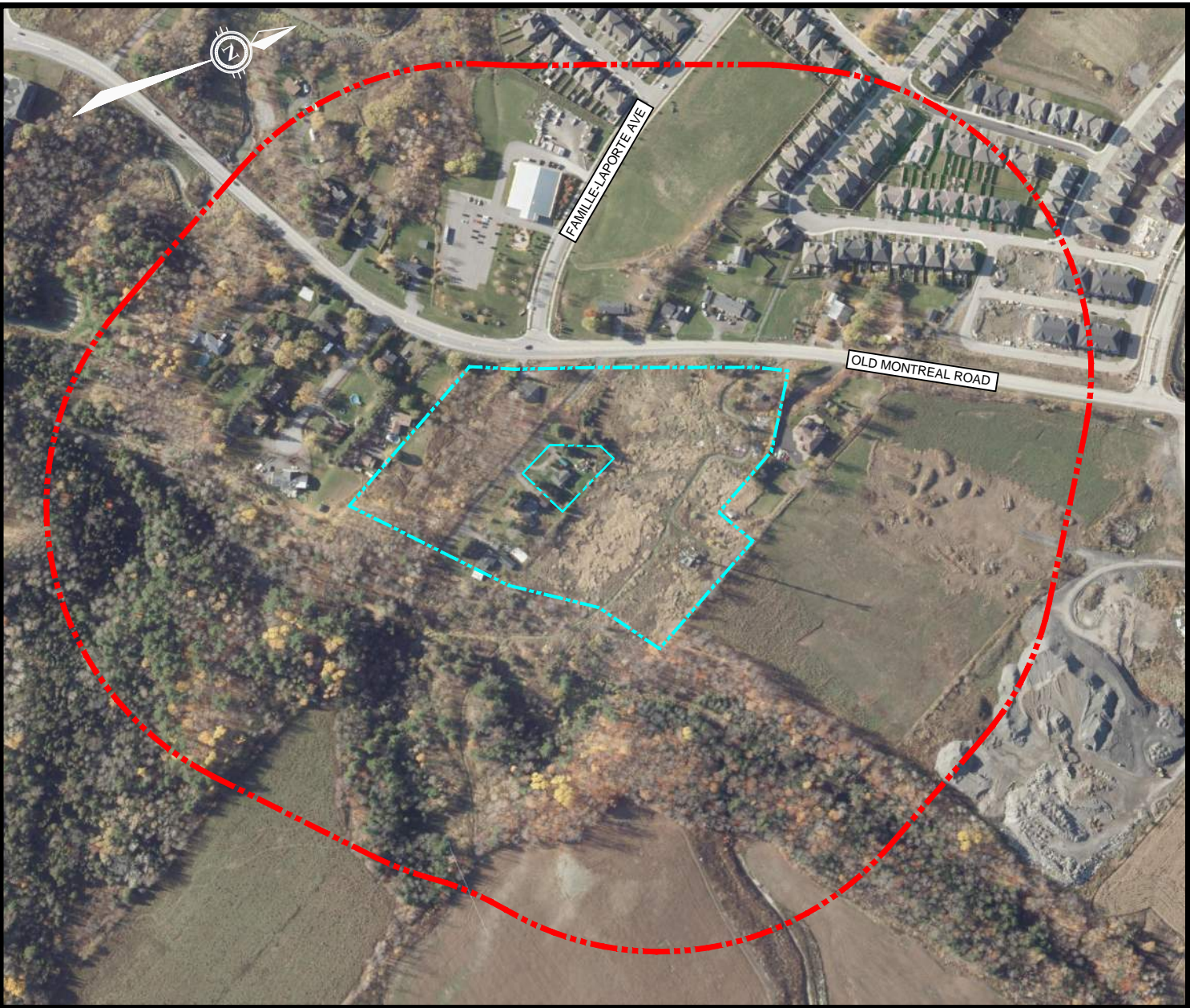
-  PROPERTY BOUNDARY
-  STUDY AREA (250m)



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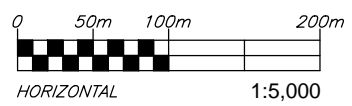
DATE FEB 2021		CLIENT: PHOENIX HOMES, PROPOSED SUBDIVISION		project no. OTT-00234493-B0
DESIGN M.M./L.W.	CHECKED M.M.	TITLE: 2015 AERIAL PHOTOGRAPH		scale 1:5,000
DRAWN BY T.M.		1208 OLD MONTREAL ROAD, ORLEANS, ONTARIO		FIG F6

Filename: P:\Projects\Environmental\230000s\234000\234493-B0 PhOneSA 1208 Old Montreal Rd\Drawings\Phase Two ESA\234493-B0 Phoenix Harbour APPENDIX F.dwg
 Last Saved: Feb 9, 2021 7:48 AM Last Plotted: Feb 9, 2021 8:32 AM Plotted by: McKeet



LEGEND

-  PROPERTY BOUNDARY
-  STUDY AREA (250m)



EXP Services Inc. www.exp.com
 t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

DATE FEB 2021		CLIENT: PHOENIX HOMES, PROPOSED SUBDIVISION		project no. OTT-00234493-B0
DESIGN M.M./L.W.	CHECKED M.M.	TITLE: 2019 AERIAL PHOTOGRAPH		scale 1:5,000
DRAWN BY T.M.		1208 OLD MONTREAL ROAD, ORLEANS, ONTARIO		FIG F7

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
1154, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario
OTT-00234493-A0
August 27, 2021*

Appendix G: Site Photographs





Photograph No. 1

View of 1154 Old Montreal Road.



Photograph No. 2

View of former coal chute at 1154 Old Montreal Road.



Photograph No. 3

View of south part of 1154 Old Montreal Road, looking northwest.



Photograph No. 4

View of vacant residence at 1174 Old Montreal Road.



Photograph No. 5

View of mould and water damage on ceiling of main floor in 1174 Old Montreal Road.



Photograph No. 6

View of location of former fill and vent pipes at 1174 Old Montreal Road.



Photograph No. 7

View of vacant residence at 1180 Old Montreal Road, looking south.



Photograph No. 8

View of fill/vent pipes on the north side of the residence at 1180 Old Montreal Road.



Photograph No. 9

View of black mould on the walls of 1180 Old Montreal Road.



Photograph No. 10

View of the fuel oil AST in the basement of 1180 Old Montreal Road.



Photograph No. 11

View of the property south of the Phase One property.



Photograph No. 12

View of the south part of 1208 Old Montreal Road.



Photograph No. 13

View of the vacant residence at 1208 Old Montreal Road looking north.



Photograph No. 14

View of the fuel oil AST at 1208 Old Montreal Road.



Photograph No. 15

View of vent/fill pipes on the east side of the residence at 1208 Old Montreal Road.



Photograph No. 16

View of adjacent property to the east.