Kollaard Associates
Engineers

210 Prescott Street, Unit 1
P.O. Box 189
Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Hydrogeology •

(613) 860-0923

FAX: (613) 258-0475

REPORT ON

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
2050 DUNROBIN ROAD
CITY OF OTTAWA, ONTARIO

Submitted to:

Euroamber Inc.
165 Constance Lake Road
Kanata, Ontario
K2K 1X7

REVISED DATE June 6, 2023
DATE: February 18, 2022

DISTRIBUTION:

2 copies Euroamber Inc.
1 copy Kollaard Associates Inc. 200977

Professional Engineers
Ontario

Authorized by the Association of Professional Engineers
of Ontario to offer professional engineering services.

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1

2.0 INTRODUCTION 2

2.1 PROPERTY INFORMATION 2
2.2 OBJECTIVES 3

3.0 SCOPE OF WORK 4

4.0 RECORDS REVIEW 5

4.1 GENERAL 5
4.1.1 PHASE ONE STUDY AREA DETERMINATION 5
4.1.2 FIRST DEVELOPED USE DETERMINATION 5
4.1.3 FIRE INSURANCE PLANS 5
4.1.4 CHAIN OF TITLE 5
4.1.5 ENVIRONMENTAL REPORTS 6
4.1.6 PROPERTY USE RECORDS 6
4.2 ENVIRONMENTAL SOURCE INFORMATION 7
4.2.1 MUNICIPAL AND PROVINCIAL GOVERNMENT SOURCES 7
4.2.2 ENVIRONMENTAL DATABASES 10
4.3 PHYSICAL SETTING SOURCES 10
4.3.1 AERIAL PHOTOGRAPHS 10
4.3.2 TOPOGRAPHY, HYDROLOGY AND GEOLOGY 11
4.3.3 FILL MATERIALS 11
4.3.4 WATER BODIES AND AREAS OF NATURAL SIGNIFICANCE 12
4.3.5 WELL RECORDS 12

5.0 INTERVIEWS 13

6.0 SITE RECONNAISSANCE 13

6.1 GENERAL REQUIREMENTS 13
6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY 14
6.2.1 SITE DESCRIPTION 14
6.2.2 SITE INFRASTRUCTURE 14
6.2.3 BUILDING DESCRIPTION 15
6.2.4 POTENTIALLY CONTAMINATING ACTIVITY 15
6.2.5 MATERIALS HANDLING AND STORAGE 15
6.2.6 DESIGNATED AND REGULATED SUBSTANCES 16
6.2.7 ABOVE AND UNDERGROUND STORAGE TANKS 18
6.2.8 ADJACENT PROPERTIES 18
6.3 WRITTEN DESCRIPTION OF INVESTIGATION 19

7.0 REVIEW AND EVALUATION OF INFORMATION 19

7.1 CURRENT AND PAST USES 19
7.2 POTENTIALLY CONTAMINATING ACTIVITY 20
7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN 21
7.4 PHASE ONE CONCEPTUAL SITE MODEL 21

8.0 CONCLUSION 23

8.1 PHASE II ESA REQUIREMENT FOR RSC FILING 23

8.2 SIGNATURES 23

9.0 REFERENCES 26

10.0 QUALIFICATIONS OF THE ASSESSORS 27

LIST OF FIGURES

FIGURE 1 – KEY PLAN
FIGURE 2 – PHASE I CONCEPTUAL MODEL PLAN-PHASE ONE STUDY AREA

LIST OF ATTACHMENTS

ATTACHMENT A – TITLE SEARCH DOCUMENTATION
ATTACHMENT B – TOPOGRAPHIC MAP
ATTACHMENT C – AIR PHOTOGRAPHS
ATTACHMENT D – CITY OF OTTAWA HLUI CORRESPONDENCE
ATTACHMENT E – ECOLOG ERIS SEARCH RESULTS
ATTACHMENT F – SITE PHOTOGRAPHS
ATTACHMENT G - MECP CORRESPONDENCE
ATTACHMENT H - PROPERTY INFORMATION

1.0 EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment was carried out by Kollaard Associates Inc. for Euroamber Inc. of Ottawa, Ontario. The subject site for this assessment consists of about a 8.9 hectare (22 acres), rectangular shaped parcel of land described as Part 1, Plan 5R-10284, Part of Lot 20, Concession 4, West Carleton Ward, City of Ottawa, Ontario. The civic address for the site is 2050 Dunrobin Road, Ottawa, Ontario. The site is located east of Dunrobin Road, approximately, 345 metres southeast of the intersection of Dunrobin Road and Constance's Lake Road, in the City of Ottawa, Ontario (see Key Plan, Figure 1).

The site is currently vacant and in early stages of development for a residential subdivision. Initial roadway construction has begun.

The purpose of the Phase I Environmental Site Assessment was to identify, if possible, through non-intrusive investigation, consisting of a review of current and historical information and observations of site conditions during a site reconnaissance visit, the existence of any significant, actual or potential environmental liabilities associated with the property. The Phase I Environmental Site Assessment (ESA) has been prepared in general conformity with our interpretation of the requirements of CSAZ768 as well as Ontario Regulation 153/04 (as amended in December 2009 through Ontario Regulation 511/09) for conducting environmental site assessments.

The Phase I ESA was based on site reconnaissance visits carried out on December 10, 2021, together with a review of available geological, topographical, historical and environmental information for the site.

There were no current or historical Potentially Contaminating Activities (PCAs) identified at the subject site. There are no off-site current or historical PCAs identified within the Phase I ESA study area.

It is understood that it is proposed to redevelop the property into a rural residential subdivision. The historical land use of the property, based on the results of this investigation, has also been for agricultural use. Therefore, a RSC is not required for the property, based on our understanding of Ontario Regulation 153/04.

The results of this Phase I ESA indicate that there are no significant environmentally related issues identified at the subject site. Based on the results of this study no major issues of environmental concern were identified with respect to subsurface soil and/or groundwater quality and no further investigation is considered warranted at this time.

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

2.0 INTRODUCTION

2.1 PROPERTY INFORMATION

The subject site for this assessment consists of about a 8.9 hectare (22 acres), rectangular shaped parcel of land described as Part 1, Plan 5R-10284, Part of Lot 20, Concession 4, West Carleton Ward, City of Ottawa, Ontario. The civic address for the site is 2050 Dunrobin Road, Ottawa, Ontario. The site is located east of Dunrobin Road, approximately, 345 metres southeast of the intersection of Dunrobin Road and Constance's Lake Road, in the City of Ottawa, Ontario (see Key Plan, Figure 1).

For the purpose of this assessment, “project north” will be considered to lie in a direction parallel to Dunrobin Road adjacent the site (see Key Plan, Figure 1).

The site is located within a rural setting which consists of scattered farms and single family dwellings. The site is bordered on the north, east and south by rural residential farmland, on the west by Dunrobin Road followed by other vacant farmland. Currently, the site is vacant. The site was formally occupied by a residential dwelling and two sheds. It is understood that the dwelling and sheds were removed sometime between 2007 and 2020.

The primary objective of this Phase I ESA is to document the site conditions on the day of a walk-through site reconnaissance and, if possible, to identify former operations or practices that may present potential environmental risks. The study is based on current and historical information, including Environmental Risk Information Services Ltd. (Ecolog ERIS) and observations of site conditions during a site reconnaissance visit conducted on December 17, 2021.

The scope of the Phase I ESA is sufficient to identify existing and/or potential environmental liabilities which are obvious from visual examination of surface features and from available sources of information. This level of work is a method of risk reduction, not risk elimination. No building materials, soil, water, liquid, gas, or chemical product sampling and/or testing on or in the vicinity of the subject site were carried out as part of this assessment. This assessment included only a cursory overview of the present neighbouring land uses and does not constitute a complete assessment of the adjacent facilities.

Sections 2.0 and 3.0 of this report provide a site description and historical information review. Section 4.0 outlines the site reconnaissance findings. Section 5.0 outlines issues of potential environmental concern which were identified. Sections 6.0 and 7.0 present a summary of the assessment and limitations of the report, respectively.

Kollaard Associates Inc. carried out this Phase I Environmental Site Assessment for Euroamber Inc. for the purpose of a residential subdivision development application with the City of Ottawa. It is understood that it is planned to develop the site into a multi lot residential subdivision. As such, there is no change of use or previous use for which a Record of Site Condition could be required under Ontario Regulation 153/04.

The ground surface across the site gently slopes downward from Dunrobin Road in the west towards the property line to the east. The vegetation across the site consists mostly of scattered trees, small shrubs and open grassed fields.

Based on a review of the topographical map for the site area, it is expected that the upper groundwater flow at the site is to the east towards Constance Lake (Topographic Map, Attachment B).

The legal description as Part 1, Plan 5R-10284, Part of Lot 20, Concession 4, West Carleton Ward, City of Ottawa, Ontario, PIN 04530-0062. The civic address for the site is 2050 Dunrobin Road, Ottawa, Ontario.

2.2 OBJECTIVES

The primary objective of this Phase I ESA is to document the site conditions on the day of a walk-through site reconnaissance and, if possible, to identify former and current operations or practices that may present potential environmental risks. The study is based on current and historical information and observations of site conditions during a site reconnaissance visit conducted on December 17, 2021. The general objectives of the Phase I Environmental Site assessment, as outlined in Ontario Regulation 153/04, include the following:

1. To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the phase one property.

2. To determine the need for a Phase II ESA.
3. To provide a basis for carrying out any Phase II ESA, if required.
4. To provide adequate preliminary information about environmental conditions in the land or water on, in or under the phase one property for the conduct of a risk assessment following completion of a Phase II ESA.

3.0 SCOPE OF WORK

The scope of the Phase I ESA is sufficient to identify existing and/or potential environmental liabilities which are obvious from visual examination of surface features and from available sources of information. The Phase I Environmental Site Assessment (ESA) has been prepared in general conformity with our interpretation of the requirements of CSAZ768-01 as well as Ontario Regulation 153/04 (as amended in December 2009 through Ontario Regulation 511/09 and subsequent amendments) for conducting environmental site assessments.

This level of work is a method of risk reduction, not risk elimination. No building materials, liquid, gas, or chemical product sampling and/or testing on or in the vicinity of the subject site were carried out as part of this assessment. This assessment included only a cursory overview of the present neighbouring land uses and does not constitute a complete assessment of the adjacent facilities.

The scope of work carried out for the site comprised the following:

- a review of available current and historical information about the site and surrounding properties within 250 metres of the site
- observations of site conditions during a site reconnaissance visit
- review and evaluate the information from the above noted information sources
- document the findings in a report

4.0 RECORDS REVIEW

4.1 GENERAL

4.1.1 PHASE ONE STUDY AREA DETERMINATION

Kollaard Associates Inc. considers that a 250 metre study area is sufficient to identify areas of historical and current potential concern on or near the subject site. As part of the preliminary review of historical documents for the site, aerial photographs of the site and surrounding area were reviewed, as well as documentation from the City of Ottawa on landfills and historical industrial sites (Sections 4.2.1 and 4.3.1). Any properties outside of this radius are considered too distant to cause any significant impact to the site.

4.1.2 FIRST DEVELOPED USE DETERMINATION

The first developed use of the property was determined based on a review of aerial photographs and the title search for the site (Section 4.3.1). The earliest air photograph that was reviewed was 1952. At that time, the site and surrounding land appear to be undeveloped farmland. The photograph indicates the site is vacant. As such, first developed use of the property is indicated to be farmland prior to 1952.

4.1.3 FIRE INSURANCE PLANS

Due to the lack of historical industrial and/or commercial sites in the Phase I Study Area, no request was made for Fire insurance plans.

4.1.4 CHAIN OF TITLE

The legal description for the property, based on information from the City of Ottawa, is as follows:

- Part 1, Plan 5R-10284, Part of Lot 20, Concession 4, West Carleton Ward, City of Ottawa, Ontario, PIN 04530-0062.

A chain of title for this site (see Attachment A) was provided by Wentzell Title in 2007 for the previous owner of the site. Based on a review of the title search information, the property is indicated to have been owned by individuals. The owners at that time were listed as Robin Doull and Slauvomir Patocki. The property was purchased in August 2020 by Euroamber Inc.

4.1.5 ENVIRONMENTAL REPORTS

No environmental related reports are expected to exist for this site.

4.1.6 PROPERTY USE RECORDS

The City of Ottawa Website was reviewed for the zoning designation of the subject site. The website indicates that the site is currently zoned RU – Rural Countryside Zone according to the City of Ottawa Zoning By-law 2012-334. The purpose of the RU zone is to:

- accommodate agricultural, forestry, country residential lots created by severance and other land uses characteristics of Ottawa's countryside, in areas designated as General Rural Area, Rural Natural Features and Greenbelt Rural in the Official Plan.
- recognize and permit this range of rural-based land uses which often have large lot or distance separation requirements; and
- regulate various types of developments in manners that ensure compatibility with adjacent land uses and respect the rural context.

The earliest air photograph that was reviewed was 1952. At that time, the site and surrounding land appear to be rural farmland.

A search of the environmental databases (Section 4.2.2) indicates no records found for the subject property.

Neither an open or closed waste management facility was identified to be within 500 metres of the subject property.

4.2 ENVIRONMENTAL SOURCE INFORMATION

In order to assess some of the historical conditions at the property, a preliminary review of information from the following sources was conducted:

Municipal and Provincial Government Sources

- Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario, December 2003, Reference Number 021-2785 by Golder Associates Ltd.
- Online queries with the following provincial and federal databases; Pits and Quarries database, Large and Small Landfills, online MECP well records database, Federal Contaminated Sites Inventory
- Ministry of Environment, Conservation and Parks (MECP), Ottawa, Ontario
- City of Ottawa Historical Land Use Inventory

Environmental Databases

- Ecolog ERIS – Environmental Risk Information Services Standard Report

4.2.1 MUNICIPAL AND PROVINCIAL GOVERNMENT SOURCES

City of Ottawa

A review of a report entitled Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario, December 2003, Reference Number 021-2785 by Golder Associates Ltd. and Mapping and Assessment of Former Industrial Sites – City of Ottawa, Ontario, July 1988, Reference Number H87-053 by Intera Technologies Ltd. indicates there are no old landfill sites within greater than 500 metres of the subject site.

Historical Land Use Inventory

The City of Ottawa was contacted to conduct a search of all environmental databases, including Historical Land Use Inventory (HLUI) and any information pertaining to the environmental condition of the property and adjoining areas including, but not limited to, past environmental reports, orders, violations of environmental statutes, regulations or by-laws, certificates, approvals, permits and any other environmental information.

The response from the City of Ottawa is provided (see Attachment D). The HLUI response indicates that The City of Ottawa has reports on file for the subject property with the Disposals and Environmental Remediation Unit (ERU). The reports are described as a Phase I ESA, Geotechnical Investigation and a Hydrogeological Investigation and Terrain Evaluation. The HLUI response also included a Summary Report and a HLUI map for all features within 250 metres of the Subject Property. The following were listed activities within 250 metres of the subject site.

A company called Membranix Coatings Inc. is indicated to be located at the adjacent property to the southeast (2010 Dunrobin Road) registered in 2005. The environmental database does not indicate any corresponding manufacturing records, waste generating or other database search results for that site. Their website indicates that they install membranes for construction applications. A review of aerial photographs indicates that there are several vehicles at that site. The vehicles and the outbuilding are located about 80 metres or more from the property line of the subject property. Groundwater flow directions are indicated to be to the northeast (based on previous hydrogeological investigation at the subject property).

Based on the available information, including the lack of waste generating or manufacturing at the adjacent property, the buffer area of some 80 metres between the buildings on that property to the property line at the subject site and the groundwater flow direction, which indicates that the subject site is cross gradient of the commercial property, it is considered that there is no risk of either soil or groundwater impacts at the subject site from this activity.

The other listing is a company identified as Bob Renaud Equipment Rental at 48 Constance Lake Road, located on an adjacent property north of the site across the former railway. There are records of waste generating or other information about activities on this site. Given that it is located down gradient of the expected shallow groundwater flow direction on the subject property, there are no concerns with regards to soil or groundwater impacts from the commercial use of this property.

<u>Ministry of the Environment, Conservation and Parks</u>

A formal request was made to the MECP office in Ottawa, Ontario to determine if the Ministry has maintained a file with respect to the subject property. Specifically, the MECP

was asked to respond (in writing) with information concerning any historical or existing incidents at or in the vicinity of the subject site. No response from the MECP has been received. Information from the Provincial Government was obtained for the MOE records noted below (pits and quarries, landfills and online MECP well records). That, in conjunction with the environmental databases that include Provincial databases (such as spills, orders, ECAs, Certificates of Approval etc.) indicate that there are no Ministry records with regards to the subject site with the exception of the well records for the drilled wells that were constructed in 2007 as test wells for the proposed development at the subject property. As there are no actual records on file with the MECP with regards to the site use that requires further information, a Freedom of Information request is not required for this property.

Pits and Quarries

Based on a review of the provincial online database, there are no active pits or quarries with the Phase I Study Area (i.e. 250 metres).

Large and Small Landfills

Based on a review of the provincial online databases for large and small landfill sites, there are no landfill sites (open or closed) within at least 2 kilometres of the subject site.

Online MECP Well Records

Three steel cased wells were observed at the site. The three steel cased wells are test wells for the hydrogeological investigation for the proposed residential subdivision at the site. No other wells were observed at the site.

Based on a review of online MECP Well Records, there are 5 drinking water wells records identified within 250 metres of the subject site.

Federal Contaminated Sites Inventory

Based on a review of the online database for federal contaminated sites, there are no sites (open or closed) within at least 500 metres of the subject site.

4.2.2 ENVIRONMENTAL DATABASES

ECOLOG ERIS – Environmental Risk Information Services Standard Report

A review of information provided by Ecolog ERIS – Environmental Risk Information Services (see Attachment E) was carried out as part of this Phase I ESA. Based on that review, one record was found in the databases searched for the project property.

- In the Water Well Information System (WWIS) database, one drinking water supply well was identified at the site. The record indicates the well was installed in 2007 and is for domestic supply purposes.

No other records were found for the subject site.

No other significant environmental concerns are listed in the Environmental Risk Information Services Standard Report. As such, Kollaard Associates considers that there are no sites representing APECs to the subject site.

4.3 PHYSICAL SETTING SOURCES

4.3.1 AERIAL PHOTOGRAPHS

A review of air photographs of the site for the years 1952, 1968, 1976, 1983, 1991, 2005, 2011 and 2019 was carried out as part of this Phase I ESA (see Attachment C). The aerial photographs were obtained from the City of Ottawa website and National Air Photo Library. The following table is a summary of the air photograph review:

Date	Observations
1952	The site and surrounding area are vacant farmland and/or woodland. A railway exists along the east side of the site.
1968	A dwelling structure is located near the centre, west portion of the site, fronting onto Dunrobin Road. The remainder of the site is farmland and/or woodland. No changes to adjacent properties are evident.
1976	No changes to site are evident. A dwelling with two barns/sheds has been constructed south of the site. The air photo indicates the site is undeveloped, abandoned farmland. Some trees have grown at the site over time. A building has been developed on the property east of the site. A

	roadway has been constructed adjacent the site. Residential dwellings exist south and southwest of the site. No other changes to the site or other adjacent properties are evident.
1983	No changes to site and adjacent properties are evident.
1991	Some small fill piles were observed near the centre tree line at the site. No other changes to site and adjacent properties are evident, with the exception that the trees and other vegetation have mature over time.
2005	The air photograph indicates tree clearing of the adjacent property west of the site. A trail (dirt bike/horse) is evident around the property. Other buildings have been constructed north of the site. No other changes to the site or other adjacent properties are evident.
2011	The dwelling no longer exists at the site. No other major changes to the site are evident. Other dwellings have been developed to the north of the site over time. No other changes to the site or other adjacent properties are evident.
2019	No other changes to the site or other adjacent properties are evident.

4.3.2 TOPOGRAPHY, HYDROLOGY AND GEOLOGY

Topography and Hydrology

Based on a review of topographical maps for the site area, it is expected that the upper groundwater flow is to the northeast towards Constance Lake, which exists about 1.1 kilometres east of the site.

Surficial and Bedrock Geology

Based on a review of the surficial geology map for the site area, it is expected that the site is underlain by shallow bedrock. Bedrock geology maps indicate that the site is underlain by limestone and dolomite of the Oxford Formation and sandstone of the Nepean formation which according to the Geological Survey of Canada, Miscellaneous Report, 85, 2004 has a low potential for the presence of radon gas in the site area.

4.3.3 FILL MATERIALS

Some fill materials was observed to have been imported to the site as part of construction of a future roadway that will service the proposed residential subdivision. The fill materials consist of a mixture of sand, gravel, cobbles, boulders, silty clay, trace to some concrete, plastic and wood debris. It is understood that the fill materials originated from properties in Almonte and Kanata. Quality testing of the fill materials was completed by Paterson Group

and Kollaard Associates as part of the Excess Soil Management Regulation (O.Reg. 406/19). There are no concerns with the fill materials as a result of the testing.

4.3.4 WATER BODIES AND AREAS OF NATURAL SIGNIFICANCE

There is a small creek (Harwood Creek) within the southeast portion of the site. The creek is part of a watershed located east of the site. The creek outlets into Constance Lake that is located some 1.1 kilometres to the northeast of the site.

A Ministry of Natural Resources mapping for ANSIs indicated there is one ANSI (Shirleys Bay) identified within 250 metres of the site (Date Source: ws.gisdynamic.lrc.gov.on.ca).

Based on a review of the City of Ottawa website information, part of the east portion of the site is zoned Environmental Protection. That zoning applies to Significant Wetlands, natural environment areas and Urban Natural Features.

No provincially significant wetlands (PSWs) exist at the subject property or within the study area.

4.3.5 WELL RECORDS

A search on The Ministry of the Environment, Conservation and Parks website for Water Well Record Mapping was completed as part of this assessment.

Three steel cased wells were observed at the site. The three steel cased wells are test wells for the hydrogeological investigation for the proposed residential subdivision at the site. No other wells were observed at the site.

Based on a review of online MECP Well Records, there are 5 drinking water wells records identified within 250 metres of the subject site. The wells are indicated to range in depth from about 8.5 to 120 metres below existing ground surface.

5.0 INTERVIEWS

An interview was carried out with the current property owner, Mr. Zbigniew Hauderowicz of Euroamber Inc., on site during the site reconnaissance on December 17, 2021.

Mr. Hauderowicz was asked the following:

What, if any use(s), has occurred at the property since you have been the owner?

His response indicated that the only use of the property since he took ownership in 2020 has been the placement of imported fill materials as part of the early stages of the roadway construction for the proposed residential construction. The importation of fill materials is further discussed (Section 4.3.3). He indicated that there have been no other activities at the site since the time of his ownership.

There are no structures or buildings on the subject property that could be discussed. As the site has been vacant since 2007, there are no other persons available at the time of this investigation with any prior knowledge of the site history.

6.0 SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

On December 17, 2021, a walk-through site reconnaissance was conducted at the subject property by a member of Kollaard Associates Inc. professional staff. The uses of the site and adjacent properties within the Phase I ESA Study Area were assessed. Observations of adjacent properties were limited to views from the subject property and from publicly accessible areas.

The attached Key Plan, Figure 1 and air photographs show the relative location of the subject site with respect to the surrounding land and the existing roadway network.

Site photographs are provided (Attachment F).

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1 SITE DESCRIPTION

The following was observed:

- The site was observed to consist of farmland and undeveloped woodland.
- Some scattered dwellings exists along Dunrobin Road north and south of the site.
- An abandoned railway line borders the east side of the site.
- No service stations exist in close proximity to the site.
- Fill materials were observed to have been imported to the site as part of the roadway construction.
- In general, surface drainage across the site slopes slightly from west to east across the site.
- No service stations exist in close proximity to the site.

The attached Key Plan, Figure 1 and air photographs show the relative location of the subject site with respect to the surrounding land and the existing roadway network.

6.2.2 SITE INFRASTRUCTURE

The following observations of the site were made.

<u>Electricity</u>
Currently, the site is unserviced vacant land. Overhead wiring was observed along Dunrobin Road. The area is serviced by Hydro Ottawa.

<u>Heating and Cooling</u>
Currently, the site is unserviced vacant land.

<u>Water Supply</u>
Three steel cased wells were observed at the site. The three steel cased wells are test wells for the hydrogeological investigation for the proposed residential subdivision at the site. Future dwellings for the residential subdivision will be serviced by individual steel cased wells.

Wastewater and Sewage Disposal

The site is vacant. The is no wastewater of sewage waste generated from the site. Single family dwellings within the area are serviced by private septic systems.

Sumps, Pits and Floor Drains

There are no buildings at the site.

6.2.3 BUILDING DESCRIPTION

Currently, there are no buildings at the site. The site was formerly occupied by a single family dwelling and two sheds. It is understood between 2008 and 2020 the dwelling and sheds were removed from the site.

6.2.4 POTENTIALLY CONTAMINATING ACTIVITY

Based on a review of information for the site, the historical use has been for residential purposes.

No waste generators or manufacturing or other database search results were identified at the subject site.

Based on information provided, there are no current or historical activities at the subject site that could be considered “Potentially Contaminating Activities”, as identified in Table 2 of Schedule D of O. Reg. 153/04.

6.2.5 MATERIALS HANDLING AND STORAGE

General Storage and Debris

At the time of the site reconnaissance, solid waste storage was not observed or expected at the site.

Solid Waste

The site is vacant. As such, there is no solid waste generated at the site. The area is served by City of Ottawa municipal waste collection on a weekly basis.

Hazardous Materials

No storage of hazardous materials was observed or is expected on the subject site.

6.2.6 DESIGNATED AND REGULATED SUBSTANCES

Polychlorinated Biphenyls (PCBs)

The use of PCBs in electrical equipment such as transformers, capacitors, fluorescent light ballasts, etc. was common up to about 1980. The Federal Chlorobiphenyls Regulation, SOR/91-152, prohibits the use of PCBs in the aforementioned electrical equipment installed after July 1, 1980. It is not a requirement to remove materials containing PCBs. However, any handling or removal of PCB containing equipment should be carried out in accordance with Ontario Regulation 362, PCB Waste Management under the Environmental Protection Act of Ontario, R.S.O 1990.

Older fluorescent lighting, if present, could contain PCBs within the light ballasts. Should any removal of lighting and electrical equipment which may contain PCBs be removed from the buildings during future renovations or demolition, it should first be identified through a designated substances and hazardous materials survey (DSS) whether special handling may be required.

No evidence of any PCB's was observed. Based on the indicated past usage of the property, the presence of PCB’s is considered unlikely.

Suspect Asbestos Containing Materials (ACM)

The common use of friable (breakable by hand) ACM in construction decreased in the mid 1970s. Buildings constructed prior to about 1985 may contain some ACM. Friable asbestos (friable is defined as a material that can be crumpled, powdered or pulverized by hand pressure) was widely used in sprayed fireproofing until 1973, and in decorative or finishing plasters, and thermal systems insulation until the early 1980’s. Examples where ACM can exist include floor, wall or ceiling tiles, heating/cooling pipes, pipe gaskets, roofing materials and insulation/non-combustible materials. The application of friable asbestos was banned

by Ontario Regulation 654/85, which came into effect March 1985. On November 1, 2005, this regulation was most recently updated and changed to Ontario Regulation 278/05.
Under Ontario Regulations, it is not a requirement to remove asbestos from a building unless it is damaged or is likely to be disturbed during renovations or demolition work etc. Applicable regulations define "asbestos-containing material" as material that contains 0.5 per cent or more asbestos by dry weight. If asbestos is to be removed, it should be carried out in accordance with the procedures outlined in Ontario Regulation 837, R.R.O. 1990 and Ontario Regulation 278/05.

No ACM's were observed. Based on the indicated past usage of the property, the presence of ACM's is considered unlikely.

Ozone- Depleting Substances (ODS)

Certain chemicals, recognized as ozone- depleting substances (ODS), break down in the stratosphere and release chlorine or bromine, which in turn destroy the stratospheric ozone layer. Most of these substances are also greenhouse gases. Ozone- depleting substances are used as foam blowing agents, solvents, fire extinguishers, and refrigerants for air conditioning and refrigeration applications. Under the Canadian Environmental Protection Act, 1999, Environment Canada administers the Ozone- Depleting Substances Regulations, 1998 and its subsequent amendments to reduce the use of these and other ODS. According to Environment Canada's website, the target established by these regulations specifies a one hundred percent reduction in the use of HCFCs by the year 2030. As of January 1, 2010, no new manufacture or import of HCFC (R-22) containing equipment was allowed in Canada.

There are no buildings at the site. As such, there are no concerns with ozone depleting substances.

Lead

Lead is commonly associated with old pipes, pipe solder, and lead paint. In 1976, Canadian Regulations limited the amount of lead in interior paint to 0.5 percent by weight. Although paints containing lead were banned from uses on exterior or interior surfaces of buildings, furniture or household products in the 1970s, various commercial paints (e.g., road paint) are still known to contain lead.

There are no buildings at the site and no concerns with lead.

Urea Formaldehyde Foam Insulation (UFFI)

Urea Formaldehyde Foam Insulation is composed of a mixture of urea-formaldehyde resin, a foaming agent, and compressed air. It was commonly injected in exterior wood frame and masonry walls in order to insulate difficult to reach cavities until its ban in Canada in December 1980. The majority of UFFI was installed in new and existing construction in Canada between 1975 and 1978 as part of the Canadian Home Insulation Program.

There are no buildings at the site and no concerns with UFFI.

6.2.7 ABOVE AND UNDERGROUND STORAGE TANKS

A review of a 2007 Phase I ESA prepared for the site by Kollaard Associates indicated that an above ground furnace oil tank serviced the former dwelling that existed at the site. At that time, the report indicated that the dwelling was observed to contain an above ground fuel oil tank within the basement. The tank was observed to be empty and the condition of the tank was observed to be good. No surface stains beneath the tank were observed.

Based on a review of the Ecolog ERIS report for the site and site area, no reports of any spills were documented for the site.

6.2.8 ADJACENT PROPERTIES

For the approximate locations of the following properties, see Attachment E, Map Key and Overview.

At the time of the site visit, adjacent properties were observed from publicly accessible areas to determine whether any activities on those properties could pose a concern for the subject site.

The site is located within a rural setting which consists of scattered farms and single family dwellings, farmland and woodland. The site is bordered on the north, on the east by a former rail line, on the south by rural residential farmland and on the west by Dunrobin Road followed by other vacant farmland.

6.2.9 Enhanced Investigation Property Observations

Part VI of O.Reg. 511/09 defines an Enhanced Investigation Property as (i) a property used, or has ever been used, in whole or part, for an industrial purpose, or (ii) a commercial property used as a garage, a bulk liquid dispensing facility, including a gasoline outlet or for the operation of dry cleaning equipment.

Based on the records review and site reconnaissance the site was not classified as an Enhanced Investigation Property.

6.3 WRITTEN DESCRIPTION OF INVESTIGATION

The Phase I ESA presented herein is based on information that was obtained from a records review (Section 4.0), interviews (Section 5.0) and site reconnaissance (Section 6.0). The details of the information obtained from each of these sources are provided in the relevant sections of this report. Based on the information obtained, Kollaard Associates has not identified any current and/or historical potential sources of contamination (PCAs) with no resulting areas of potential environmental concern (APEC) at the site, which are described in Section 7.0.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

Currently, the site is vacant. The site was formally occupied by a residential dwelling and two sheds. It is understood that the dwelling and sheds were removed sometime between 2007 and 2020.

Based on a review of historical aerial photographs, title search, historical maps, and other records review, the site was first developed sometime after 1952. The 1952 air photograph indicates the site

is vacant and the 1968 air photograph indicates a single family dwelling with two sheds. This corresponds with the timeline of the air photographs.

A description of current and past uses of the Phase I ESA property to its first developed use is provided below.

Year	Owner	Property Use
1824 -2007	Various individuals	Probably Agricultural and residential (1960s)
2007 - 2021	Euroamber Inc.	Agricultural - residential dwelling demolished in about 2011

7.2 POTENTIALLY CONTAMINATING ACTIVITY

As per Ontario Regulation 153/04, a Potential Contaminating Activity (PCA) is defined as one of fifty-nine (59) industrial operations set out in Table 2 of Schedule D. From that list, no items were identified for the subject site.

The historical use of the site has been for agricultural purposes which included a farmhouse and two sheds since 1968 of which aerial photographs confirmed over the years.

A former above ground fuel oil tank that serviced the former dwelling was observed to be in good condition, when observed in 2007. Since that time, the building has been demolished and the tank removed from the site.

There are no other current or historical activities at the subject site that qualify as PCAs.

Based on information provided, there are no current or historical activity has been identified within 250 metres that could be considered “Potentially Contaminating Activities”, as identified in Table 2 of Schedule D of O. Reg. 153/04 (see Table, below).

No records for spills, waste generation or handling or Scott's Manufacturing directory and other database search requests were found for the subject site (Section 4.2.2).

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

There are no current or historical activities that has been identified within 250 metres of the subject site that could be considered Potentially Contaminating Activities within the Phase One Study Area (see Conceptual Site Model, Figure 2).
There were no PCAs on the subject property. There are no offsite PCAs which have resulted in APECs on the subject site.

7.4 PHASE ONE CONCEPTUAL SITE MODEL

The Phase I ESA Conceptual Model provided as Figure 2 identifies the PCAs (identified in Sections 7.2 and 7.3, if applicable) and within the Phase I Study Area (250 metres) as well as surface features, such as buildings, roads and property uses for adjacent properties. The Phase I study area and all of the activities and historical property uses are described within maps provided.

The following describes the Phase One ESA Conceptual Site Model (CSM) for the Site based on the information obtained and reviewed as part of this Phase I ESA:

- The subject site for this assessment consists of one property with civic address 2050 Dunrobin Road, in the City of Ottawa, Ontario.
- The subject site for this assessment consists of about an 8.9 hectare (22 acres), rectangular shaped property located northeast of Dunrobin Road.
- The site for this assessment is currently farmland. The site was formerly occupied by a farmhouse and two small sheds.
- The historical use of the site has been agricultural/residential (since at least 1958) purposes.
- There are three steel cased water wells present on the site. The wells were placed for the purposes of a hydrogeological assessment of the property for a proposed residential subdivision at the site.
- Fill materials was observed to have been imported to the site as part of the roadway construction for the proposed residential subdivision. The fill materials were tested as part of Excess Soil Management and are considered to be acceptable quality.

- The surrounding properties are comprised of a mix of farmland, woodland and scattered residential dwellings.
- The site is bordered on the west by Dunrobin Road, on the east by former existing railway line (now walking trail) and on the north and south by scattered residential development and woodland.

In order to determine whether any potentially contaminating activities within the Phase I study area may have contributed to an APEC at the subject site, the following were considered.

Site and area topography and surface water drainage: Based on a review of topographical maps for the site area, it is expected that the upper groundwater flow is to the northeast towards Constance Lake, which exists about 1.1 kilometres east of the site. The ground surface across the site is relatively flat lying with a gentle slope downward from Dunrobin Road in the west towards the property line to the east. The vegetation at the site consists mostly of scattered trees, small shrubs and open grassed fields. Scattered mature trees are located around the perimeter of the site and along a fenceline located in about the centre of the site.

Roadside ditches were observed along Dunrobin Road. A ditch was also observed near the centre of the site. Water was observed in the ditch flowing north to south. Based on a review of topographical maps for the site area it is expected that the upper groundwater flow is to the northeast towards Constance Lake which exists about 1.1 kilometres east of the site.

Hydrogeology/Surficial and Bedrock Geology: Based on a review of the surficial geology map for the site area, it is expected that the site is underlain by shallow bedrock. Bedrock geology maps indicate that the site is underlain by limestone and dolomite of the Oxford Formation and sandstone of the Nepean formation which according to the Geological Survey of Canada, Miscellaneous Report, 85, 2004 has a low potential for the presence of radon gas in the site area.

Based on a review of overburden thickness mapping for the site area, the overburden is estimated to be between about 0.1 to 2.0 metres in thickness above bedrock.

Contaminant distribution, transport and underground utilities: The soils at the site and within the Phase I study area consist of a thin veneer of glacial till underlain by shallow bedrock. Contamination would tend to migrate downward until saturated conditions are encountered which

likely occurs in shallow fractured bedrock. Once saturated conditions are encountered, and depending on contaminant mobility, solubility, volatility, etc., the contaminants could be expected to dissolve into the groundwater and migrate laterally in the direction of groundwater flow through bedrock fractures. In this case, the topographical information indicates that the groundwater flow gradient is moving towards Constance's Lake located approximately 1.1 kilometres east of the site.

However, no contamination is expected to exist at the site.

Uncertainty: The uncertainties associated with the conceptual model include those associated with a limited documentation for the subject site and adjacent sites. However, based on the body of information acquired, it is considered that the absence of this information should not likely affect the final conclusion of the Phase I ESA. There were no material deviations to the Phase I ESA requirements set out in O. Reg. 153/04 that would cause uncertainty or absence of information that would affect the validity of the Phase I Conceptual Site Model or the findings of this Phase I ESA.

8.0 CONCLUSION

8.1 PHASE II ESA REQUIREMENT FOR RSC FILING

The results of this Phase I ESA suggest that a Phase II ESA is not required at this time.

The current use is agricultural with previous residential use and the proposed development of the site is residential use.

Given that the Phase I property is currently vacant agricultural (former residential) and is to be developed into a rural residential subdivision there will be no change in the land use from less sensitive to more sensitive. Therefore, an RSC is not required for the property, based on our understanding of Ontario Regulation 153/04.

8.2 SIGNATURES

The results of this Phase I ESA should in no way be construed as a warranty that the subject property is free from any and all contaminants other than those noted in this report, nor that all compliance issues have been addressed.

This report was prepared for the exclusive use of Euroamber Inc. and is based on data and information collected during the Phase I ESA of the property conducted by Kollaard Associates Inc. This report may not be relied upon by any other person or entity without the express written consent of Euroamber Inc. and Kollaard Associates Inc. In evaluating this site, Kollaard Associates Inc. has relied in good faith on information provided by others. The assessment of environmental conditions and possible site hazards presented has been made using available technical data collected and provided by others. We accept no responsibility for any deficiencies, or inaccuracies in this report as a result of omission, misinterpretations, or fraudulent acts of others.

The conclusions provided herein represent the best judgement of Kollaard Associates Inc. based on current environmental standards. Due to the nature of the investigation and the limited data available, we cannot warrant against undiscovered environmental liabilities. If new information is discovered during future work, including excavations, borings or other studies, Kollaard Associates Inc. should be requested to re-evaluate the conclusions presented in this report and provide amendments as required.

We trust that this report is sufficient for your present requirements. If you have any questions concerning this report, please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.

LICENSED PROFESSIONAL ENGINEER
June 9, 2023
C. E. VERMEERSCH
100183397
PROVINCE OF ONTARIO

Dean Tataryn, B.E.S., EP.

Colleen Vermeersch, P. Eng.

9.0 REFERENCES

City of Ottawa geoMaps, air photographs for the years 1952, 1968, 1976, 1983, 1991, 2005, 2011 and 2019.

Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario, December 2003, Reference Number 021-2785 by Golder Associates Ltd.

Topographic Map: NRCan Topographic Maps, Ottawa, Ontario, 31 G/5, Edition 11, published 1998, current as of 1994, scale 1:50,000.

Surficial Geology Map: Geological Survey of Canada, Surficial Geology, Ottawa, Ontario, Map 1506A, published 1982, scale 1:50,000.

Bedrock Geology Map: Geological Survey of Canada, Generalized Bedrock Geology, Ottawa-Hull, Ontario and Quebec, Map 1508A, published 1979, scale 1:125,000.

Ecolog Eris Ltd. Standard Report, dated February 14, 2022, various federal, provincial and private database records for 250 metres study area.

10.0 QUALIFICATIONS OF THE ASSESSORS

Dean Tataryn, B.E.S., EP – Senior Environmental Professional

Mr. Dean Tataryn is a Senior Environmental Professional (EP) with Kollaard Associates Inc. in Kemptville, Ontario. Mr. Dean Tataryn has been conducting Phase I ESAs in accordance with the CSA Standard and Environmental Protection Act for more than 25 years. Mr. Tataryn has conducted more than 150 Phase I, II and III ESAs for commercial/residential clients over his career. Mr. Tataryn obtained a Bachelor of Environmental Studies (Honours Urban and Regional Planning) and a Certificate in Environmental Assessment from the University of Waterloo in 1995. Mr. Tataryn obtained his Environmental Professional (EP) designation in June of 2010.

EP certification is available exclusively to experienced professionals who have five or more years of relevant environmental work experience Recipients of the EP designation have demonstrated that their skills and knowledge meet or exceed the National Occupational Standards (NOS) to ensure that they possess the specific environmental competencies required in their fields of practice. The NOS are a comprehensive list of skill statements that describe the competencies required for environmental work in Canada. The NOS provides a rigorous, nationally validated benchmark of the skills, knowledge and experience relevant for practice within the environment sector in the areas of environmental protection, resource management, environmental sustainability, environmental management, environmental auditing and/or greenhouse gas reporting.

Mr. Tataryn joined Kollaard Associates Inc. in 2005 and has worked on numerous environmental, geotechnical and hydrogeological assessment projects over his career. Mr. Tataryn is fully trained in coordinating and conducting environmental site assessments, environmental remediation, reclamation and restoration, contamination and spill inspections, and storage tank assessment and removal.

Kollaard Associates is an engineering consulting firm that provides a complete range of engineering services for developers, builders and homeowners in Eastern Ontario. Kollaard Associates specializes in providing civil, structural, geotechnical, hydrogeological and environmental services to our clients. Kollaard Associates Inc. has been established as a team of engineers and consultants since 2005. Mr. William Kollaard, P.Eng., owner and president, is responsible for the overall company development and management of the firm.

Colleen Vermeersch, P.Eng.

Colleen Vermeersch is an engineer with Kollaard Associates Inc. in Kemptville, Ontario. Colleen has been conducting Phase I ESAs in accordance with the CSA Standard and Environmental Protection Act for more than four years. Colleen has conducted more than thirty Phase I ESAs for commercial/residential clients over her career and several Phase II ESAs, some of which have involved clean up supervision. Colleen Vermeersch obtained a Bachelor of Engineering (Environmental) from Carleton University in 2007 and achieved professional status in 2012.

Colleen joined Kollaard Associates Inc. in 2007 and has worked on numerous environmental and hydrogeological projects since that time. Colleen is fully trained in carrying out and analyzing pumping tests, and field and lab based testing to determine soil and aquifer properties, such as hydraulic conductivity, transmissivity and groundwater flow directions/gradients, as these apply to contaminant transport and migration, coordinating and conducting environmental site assessments, environmental remediation, and storage tank assessment and removal.

KEY PLAN	FIGURE 1

NOT TO SCALE

Kollaard Associates
Engineers

Project No. 200977

Date February 2021

© COPYRIGHT 2020
KOLLAARD ASSOCIATES INCORPORATED

DRAWING NUMBER:
FIGURE 2

LEGEND:

I INSTITUTIONAL USE

R RESIDENTIAL USE

C COMMERCIAL USE

M INDUSTRIAL USE

P PARK/COMMUNITY USE

PHASE I SITE BOUNDARY

PHASE I STUDY AREA
250 METRES RADIUS

THERE ARE WATER WELLS ON THE PHASE I PROPERTY.

THERE ARE NO USTs WITHIN THE PHASE I ESA PROPERTY.

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING REPORT.

REFERENCE: MAPPING OBTAINED FROM OTTAWA GEOMAPS

REV.	NAME	DATE	DESCRIPTION

Kollaard Associates
Engineers

PO, BOX 189, 210 PRESCOTT ST
KEMPTVILLE ONTARIO
K0G 1J0 FAX (613) 258-0475
http://www.kollaard.ca

(613) 860-0923
info@kollaard.ca

CLIENT:
ZBIGNIEW HAUDEROWICZ

PROJECT:
PHASE I ENVIRONMENTAL
SITE ASSESSMENT
CONCEPTUAL SITE MODEL

LOCATION:
2050 DUNROBIN ROAD
CITY OF OTTAWA, ONTARIO

DESIGNED BY:	DATE:
--	FEB 9, 2022
DRAWN BY: DT	SCALE: AS SHOWN

KOLLAARD FILE NUMBER:
200977

ATTACHMENT A

TITLE SEARCH DOCUMENTATION

Attn: Dean Tatarzyn

(1)

ENVIRONMENTAL SEARCH Project no. 070415

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
	Patent	March 25 1824	Crown	George Lyon
RO1039	Deed	Aug 19 1836	George Lyon	Russell Mackenzie
RO1542	Deed	April 11 1840	Russell Mackenzie	Peter McGill
RO5637	Deed	Mar 19 1852	Peter McGill	Hector Russell
MH231	Deed	Nov 11 1874	Estate of Hector Russell	Thomas Armstrong
MH476	Deed	June 14 1877	Thomas Armstrong	John Younghusband
MH651	Deed	June 20 1883	John Younghusband	Ruth Bradley
MH1381	Deed	Feb 26 1898	Ruth Bradley	Henry Bradley

ENVIRONMENTAL SEARCH

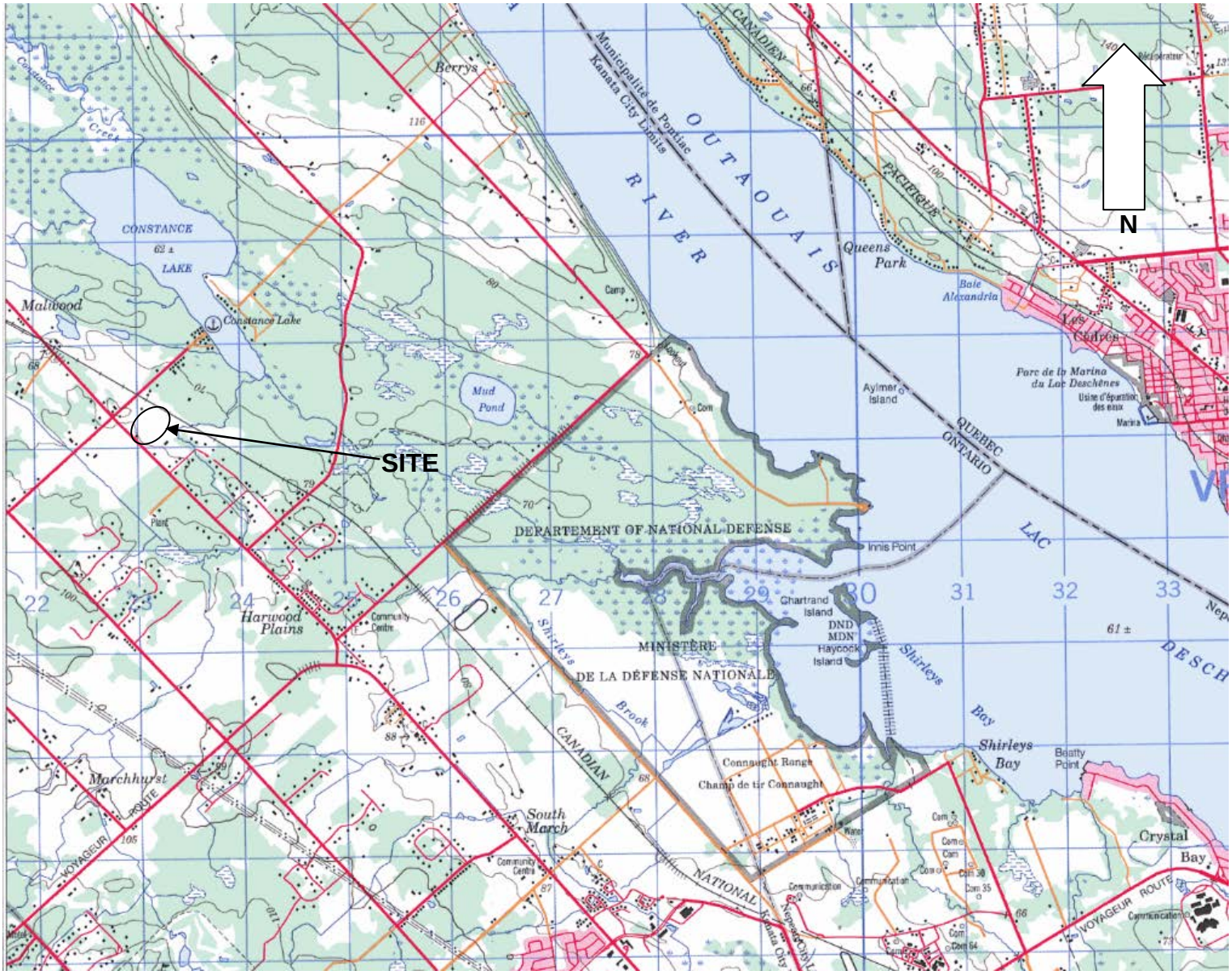
INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
MH1871	Deed	Nov 7 1906	Estate of Henry Bradley	Robert James White
MH2352	Deed	July 4 1913	Robert James White	William H. Boucher
MH3223	Deed	Dec 2 1930	William H. Boucher	William Ives
MH3691	Deed	Oct 29 1946	William Ives	Evilena Ives Wilfred Ives
N358242	Deed	Oct 1 1986	Wilfred Ives	Paul Barrett Doyle
N523375	Deed	Feb 13 1990	Paul Barrett Doyle	Roberto Campagna In Trust
OC157397	Deed	Jan 6 2003	Roberto Campagna In Trust	Giovanna Calvano Nella Calvano Romano Cacciatti Rita Cacciatti Roberto Campagna Margaret Campagna

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
OC540078	Deed	Nov 30	Rita Cacciotti	Robin Odull
		2005	Romano Cacciotti	Slawomir Patocki
			Gioacchino Calvano	(Current owners)
			Nella Calvano	
			Margaret Campagna	
			Roberto Campagna	
* Legal designation is: Part of Lot 20, Concession 4, Geographic Township of March, City of Ottawa, being Part 1 on Plan				
5R-10284. PIN 04530-0062				
			Aug 1/07	

ATTACHMENT B

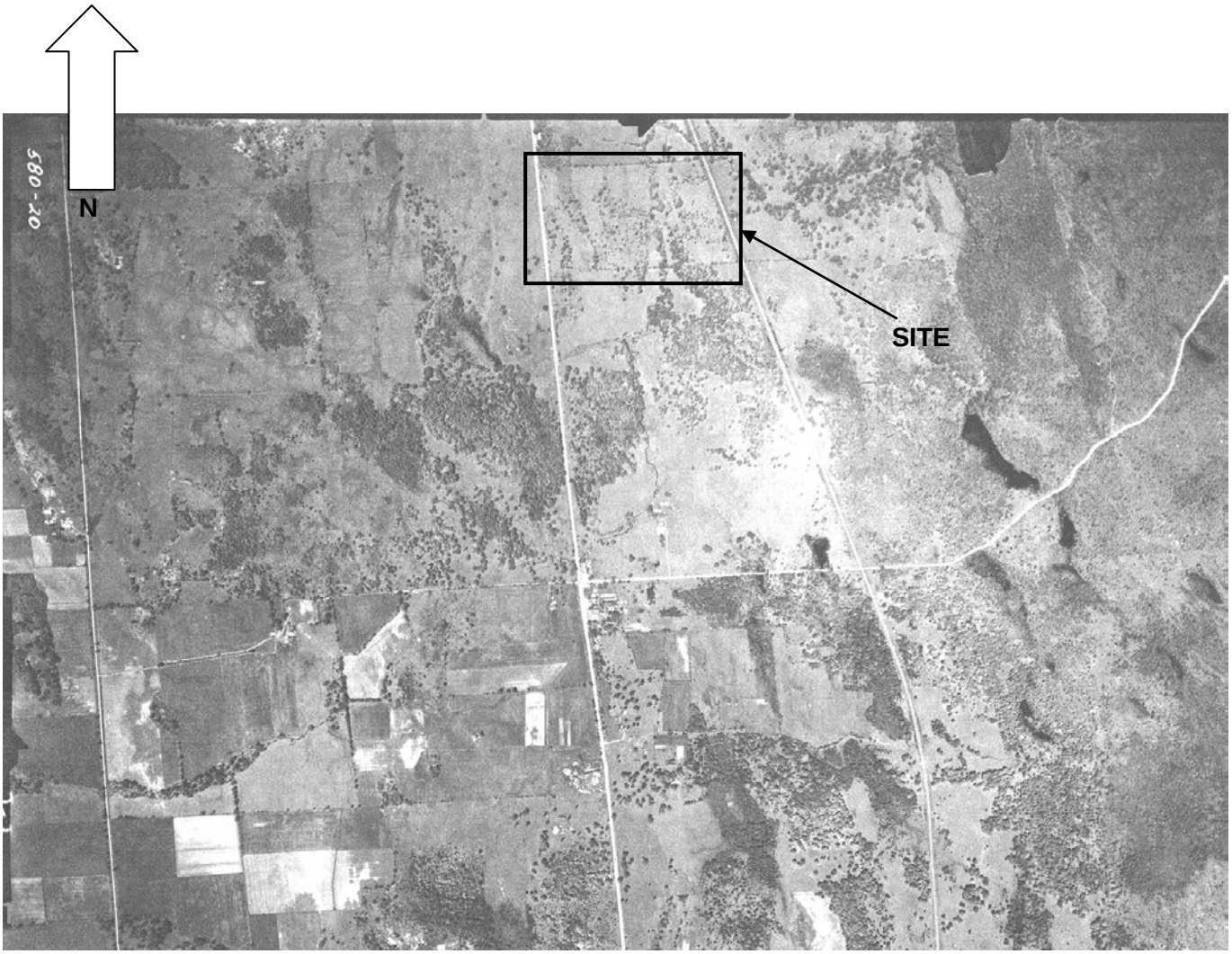
TOPOGRAPHIC MAP


N
SITE
CONSTANCE
LAKE
Constance Lake
Malvood
Berrys
Mud Pond
Municipalité de Pontiac
Kanata City Limits
OUTAOUAIS
RIVER
CANADIEN
PACIFIQUE
Queens Park
Baie Alexandria
Les Cèdres
Parc de la Marina du Lac Deschênes
Usine d'épuration des eaux
Marina
Aylmer Island
QUEBEC
ONTARIO
DEPARTEMENT OF NATIONAL DEFENSE
Innis Point
LAC
DESCH
Chartrand Island
DND
MDN
Haycock Island
MINISTÈRE
DE LA DÉFENSE NATIONALE
Shirleys Brook
Shirleys Bay
Harwood Plains
Marchhurst
ROUTE
VOYAGEUR
South March
CANADIAN
NATIONAL
Connaught Range
Champ de tir Connaught
Beatty Point
Crystal Bay
Community Centre
Communication
Camp
Plant
Mine
Kanata City
Nepean City
22
23
24
25
26
27
28
29
30
31
32
33
61 ±
62 ±

ATTACHMENT C

AIR PHOTOGRAPHS

AIR PHOTOGRAPH



Source: National Air Photo Library

1952

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH

Source: National Air Photo Library

1968

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH

Source: City of Ottawa Emaps

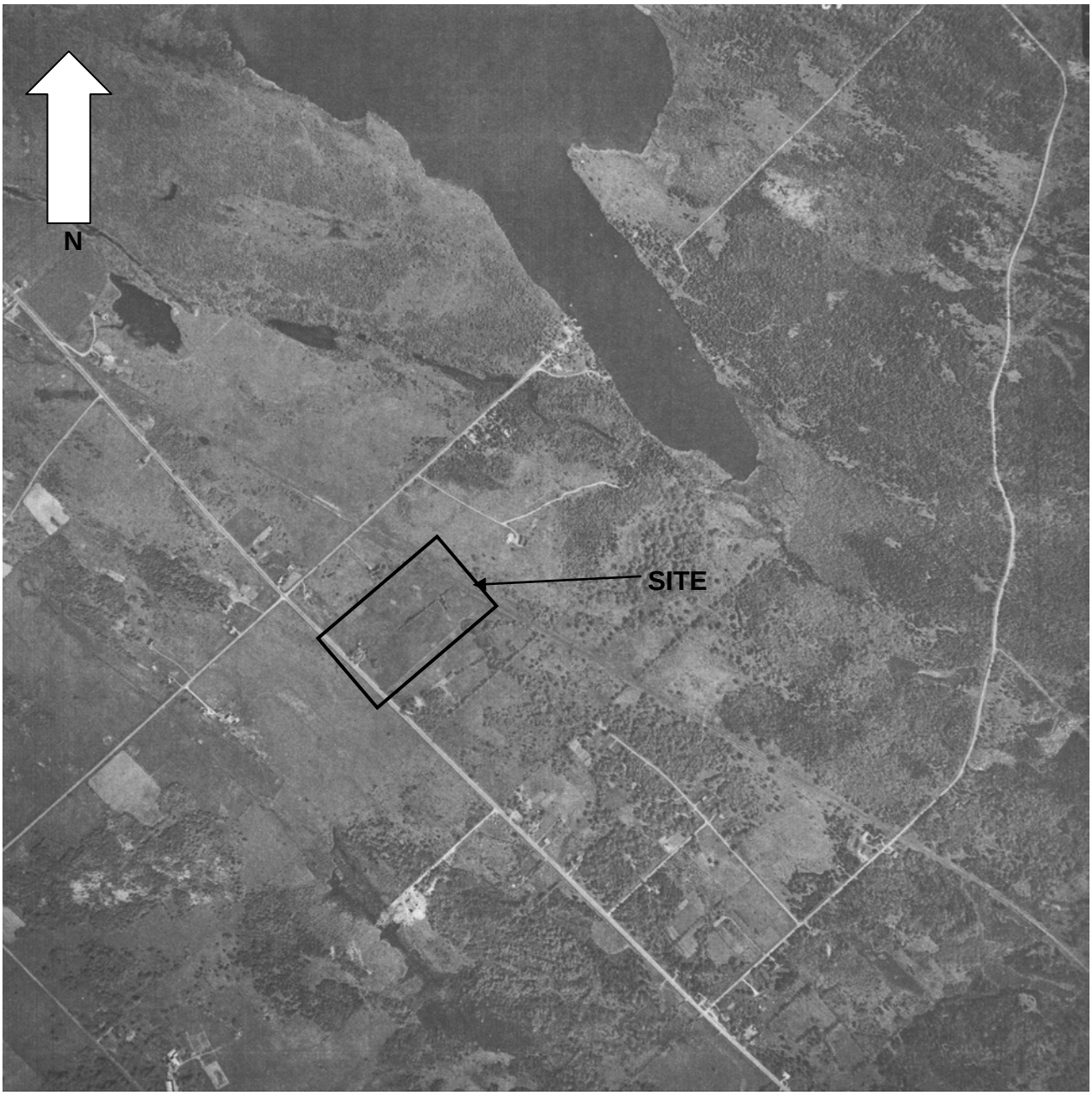
1976

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH



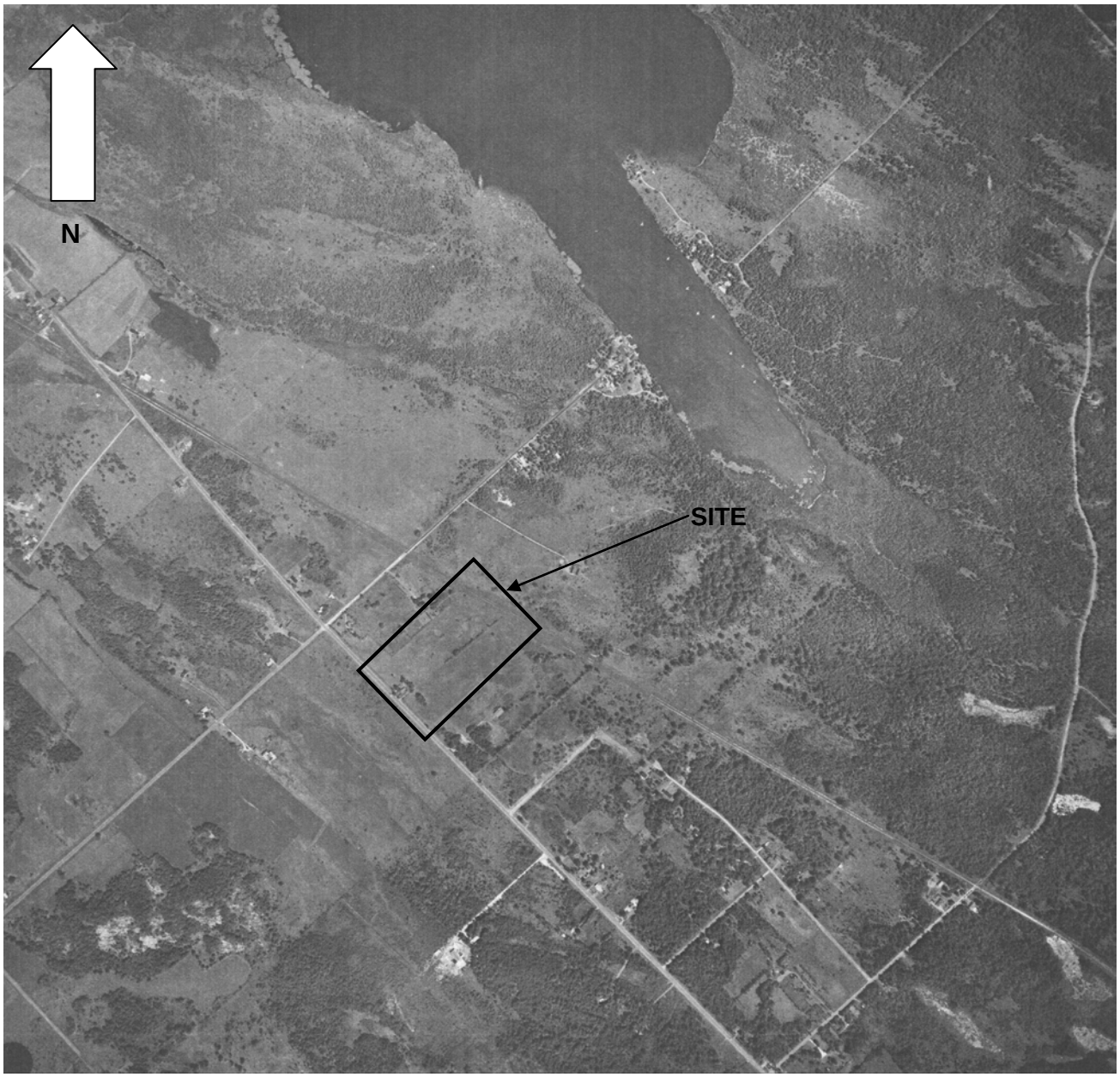
1978

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH



Source: National Air Photo Library

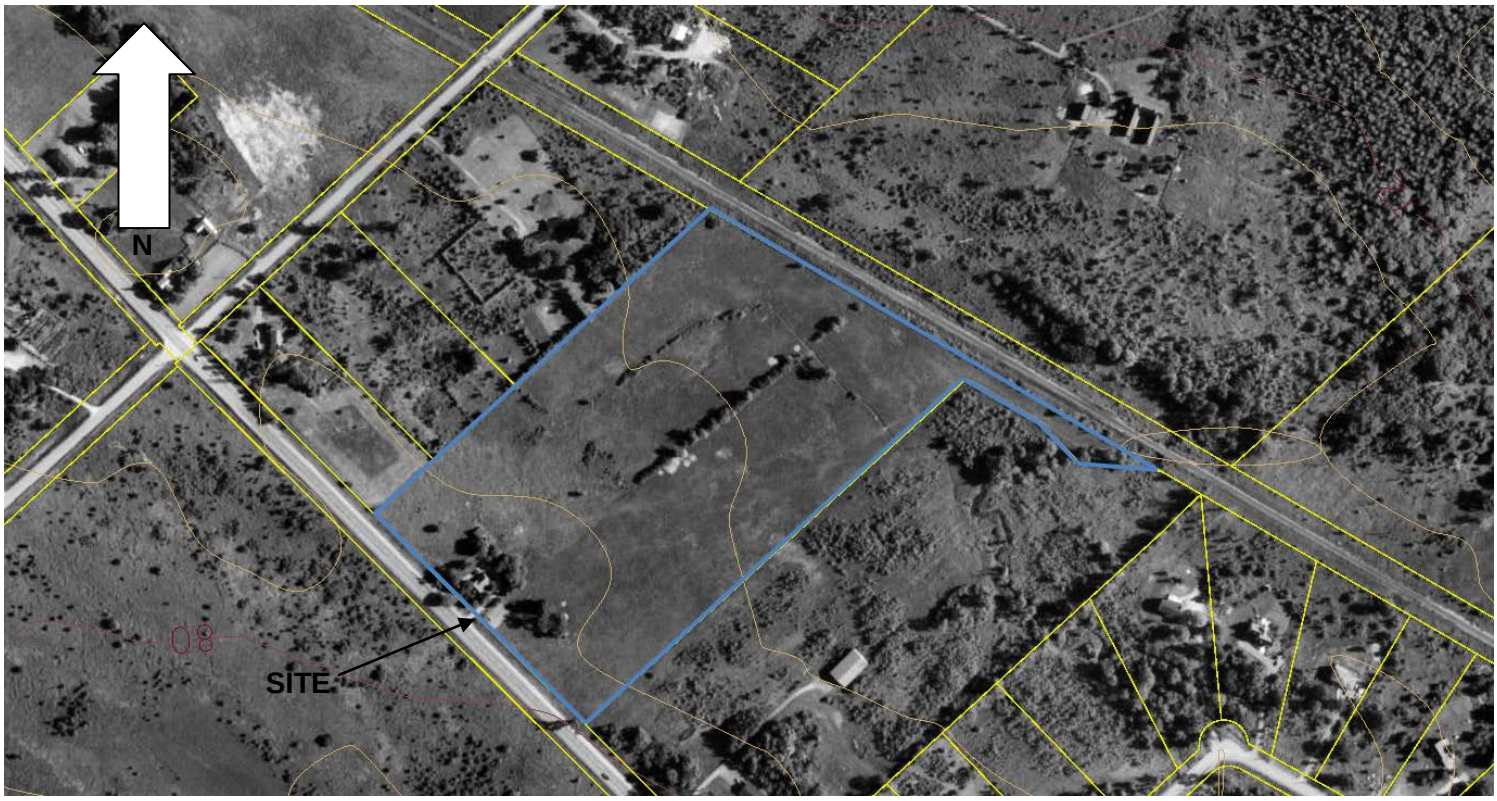
1983

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH



Source: City of Ottawa Emaps

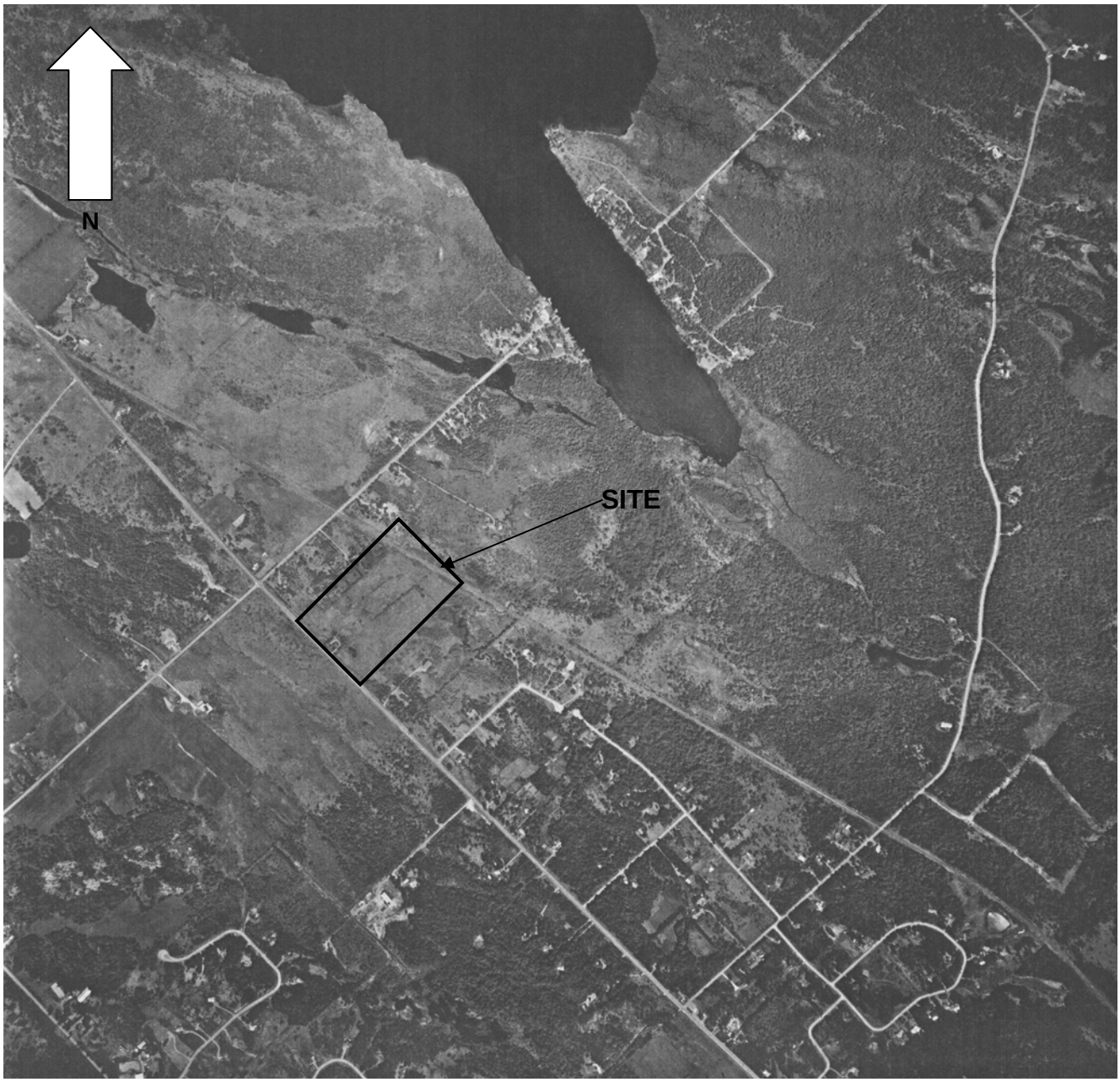
1991

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH



1999

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH

Source: City of Ottawa Emaps

2005

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH

Source: City of Ottawa Emaps

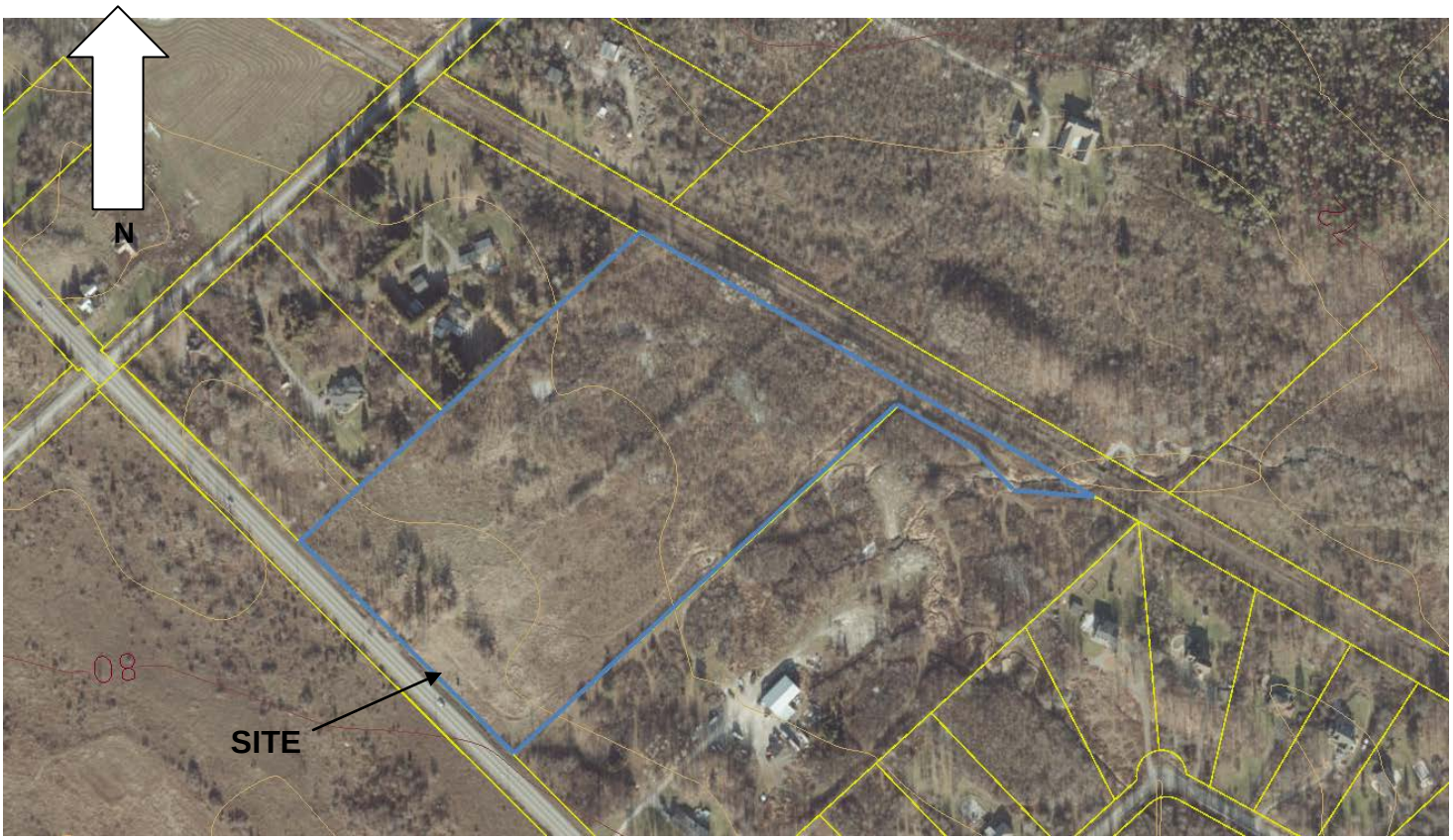
2011

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

AIR PHOTOGRAPH



Source: City of Ottawa Emaps

2019

Kollaard Associates
Engineers

Project No. 200977

Date February 2022

ATTACHMENT D

CITY OF OTTAWA CORRESPONDENCE

Kollaard Associates
Engineers
210 Prescott Street
P.O. Box 189
Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Hydrogeology •
(613) 860-0923
FAX: (613) 258-0475

February 9, 2022

200977

City of Ottawa
Planning and Development
110 Laurier Avenue West
Ottawa, Ontario
K1P 1J1

Attention: To whom it may concern

Re: ENVIRONMENTAL SEARCH REQUEST
2050 DUNROBIN ROAD
CITY OF OTTAWA, ONTARIO

Dear Sir/Madam:

Kollaard Associates Inc. was retained by Zbigniew Hauderowicz to carry out a Phase I ESA for the above noted site. Kollaard Associates Inc. hereby requests that the City of Ottawa conduct a search of all environmental databases, including the Historical Land Use Inventory ("HLUI"). Kollaard Associates Inc. is interested in any information pertaining to the environmental condition of the property and adjoining areas including, but not limited to past environmental reports, orders, violations of environmental statutes, regulations or by-laws, certificates, approvals, permits and any other environmental information.

Please find attached the consent letter, HLUI disclaimer form, and the Request for Information form. We thank you for your cooperation in this matter and look forward to your reply.

If you should require further information, please do not hesitate to contact the requestor at dean@kollaard.ca or by telephone at (613) 860-0923, Ext 225.

Sincerely,
KOLLAARD ASSOCIATES, INC.

Dean Tataryn, B.E.S., EP.

Office Use Only		
Application Number:	Ward Number:	Application Received: (dd/mm/yyyy):
Client Service Centre Staff:		Fee Received: $

Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning, Real Estate and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Background Information

***Site Address or Location:** *2050 Dunrobin Road*

** Mandatory Field*

Applicant/Agent Information:

Name: *KOLLAARD ASSOCIATES INC. (Dean Tataryn)*

Mailing Address: *210 Prescott Street, Kemptville, Ontario*

Telephone: *6138600923* Email Address: *dean@kollaard.ca*

Registered Property Owner Information: ☐ Same as above

Name: *Zbigniew Hauderowicz*

Mailing Address: *165 Constance Lake Road, Kanata, Ontario K2K1X7*

Telephone: *613-799-7145* Email Address: *euroamber@rogers.com*

Site Details

Legal Description and PIN:	*Part 1, Plan 5R-10284, Part of Lot 20, Concession 4, West Carleton Ward, City of Ottawa, ON*
What is the land currently used for?	*Rural*

Lot frontage: _____ m Lot depth: _____ m Lot area: _____ m^2

OR Lot area: (irregular lot) 89,000 m^2

Does the site have Full Municipal Services: ○ Yes ◉ No

Required Fees

Please don't hesitate to visit the Historic Land Use Inventory website more information. Fees must be paid in full at the time of application submission.

Planning Fee	$132.00

Submittal Requirements

The following are required to be submitted with this application:

1. **Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
2. **Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Real Estate and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
3. **A site plan or key plan of the property, its location and particular features.**
4. **Any significant dates or time frames that you would like researched.**

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Kollaard Associates Inc. ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI 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.

2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.

3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.

4. Copyright is reserved to the City.

5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.

6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: Dean Tataryn

Dated (dd/mm/yyyy): 09/02/2022

Per: Dean Tataryn

(Please print name)

Title: Environmental Professional

Company: Kollaard Associates Inc.

Kollaard Associates
Engineers
210 Prescott Street
P.O. Box 189
Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Hydrogeology •
(613) 860-0923
FAX: (613) 258-0475

February 9, 2022 200977

Zbigniew Hauderowicz
165 Constance Lake Road
Kanata, Ontario K2K 1X7

Re: Consent to Disclose Information
2050 Dunrobin Road
City of Ottawa, Ontario

Dear Sir/Madam,

We have been retained to perform a Phase I Environmental Site Assessment (ESA) for the above noted property located within the City of Ottawa, Ontario.

We are requesting consent from you, the owner of 2050 Dunrobin Road for the City of Ottawa to disclose information for the purpose of the Phase I Environmental Site Assessment. This will authorize the City of Ottawa to release any relevant information about the property to the requester.

To provide consent, please sign and date the following.

Owner/Representative Signature
(Zbigniew Hauderowicz)

Feb.09.2022
Date

Zbigniew Hauderowicz

Owner/Representative Name (Please Print)
(Zbigniew Hauderowicz)

Thank you for your assistance regarding this matter.

Sincerely,
KOLLAARD ASSOCIATES, INC.

Dean Tataryn, B.E.S., EP.

City of Ottawa
Property Information
Source: https:\\maps.ottawa.ca\geoOttawa
Date/Time Generated: 2021-10-28, 11:12:19 a.m.

Property Parcel:
Calculated Parcel Area[i]: 461.78 m^2 (4970.55 ft^2) (0.05 ha)

Main Address:
211 ARMSTRONG ST

Solid Waste Collection:
Waste Contractor: City
Zone: 3
Pickup Day/Calendar: THURSDAY/A

Ward Information
Number: 15
Ward Name: Kitchissippi
Councillor Name: Jeff Leiper

Property aerial photo

[i]The property parcel area value shown is based on the parcel selected to generate the report.

File Number: D06-03-22-0039

March 16, 2022

Dean Tataryn
Kollaard Associates Inc.

*Sent via email [*dean@kollaard.ca*]*

Dear Dean,

Re: Information Request
2050 Dunrobin 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:

- **Disposals and Environmental Remediation Unit:** The City's Environmental Remediation Unit has environmental records on file pertaining to the subject property noted above either directly on or adjacent to the subject property. To submit requests for information under the Municipal Freedom of Information and Protection of Privacy Act, please visit https://ottawa.ca/en/city-hall/accountability-and-transparency/accountability-framework/freedom-information-and-protection-privacy/access-information
    - **ERU has a Phase I ESA, Geotechnical Investigation, and a HydroG Investigation and Terrain Evaluation**

Documents Provided:

HLUI Summary Report and HLUI Map

The HLUI Summary Report Excel spreadsheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided HLUI Map PDF. 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 https://ero.ontario.ca/ 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 HLUI@ottawa.ca.

Sincerely,

Amya Martinov
Student Planner

Per:

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

MB / AM

Enclosures: (2)

1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-22-0039

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP

ATTACHMENT E

ECOLOG ERIS SERVICES

DATABASE REPORT

Project Property:	*200977* *2050 Dunrobin Road* *Kanata ON K2K 1X7*
Project No:	*200977*
Report Type:	*Standard Report*
Order No:	*22020900048*
Requested by:	*Kollaard Associates Inc.*
Date Completed:	*February 14, 2022*

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

Table of Contents

Table of Contents....2
Executive Summary....3
Executive Summary: Report Summary....4
Executive Summary: Site Report Summary - Project Property....6
Executive Summary: Site Report Summary - Surrounding Properties....7
Executive Summary: Summary By Data Source....8
Map....10
Aerial....11
Topographic Map....12
Detail Report....13
Unplottable Summary....46
Unplottable Report....47
Appendix: Database Descriptions....53
Definitions....62

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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

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

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

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

Executive Summary

Property Information:

Project Property:	*200977* *2050 Dunrobin Road Kanata ON K2K 1X7*
Project No:	*200977*

Coordinates:

Latitude:	*45.3941401*
Longitude:	*-75.9820869*
UTM Northing:	*5,027,204.95*
UTM Easting:	*423,129.09*
UTM Zone:	*18T*

Elevation:	*253 FT* *77.18 M*

Order Information:

Order No:	*22020900048*
Date Requested:	*February 9, 2022*
Requested by:	*Kollaard Associates Inc.*
Report Type:	*Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	2	2
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	5	6
		Total:	1	7	8

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		2050 DUNROBIN RD lot 20 con 4 KANATA ON ***Well ID:*** 7048689	W/57.6	0.69	13

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		100 CONSTANCE LAKE ROAD lot 20 con 4 ON ***Well ID:*** 7225178	W/123.6	1.69	19
3	BORE		ON	NW/146.9	-0.24	25
4	WWIS		2050 DUNROBIN ROAD lot 20 con 4 KANATA ON ***Well ID:*** 7048690	E/164.2	-0.27	27
5	WWIS		12 CONSTANCE LAKE RD lot 20 con 4 DUNROBIN ON ***Well ID:*** 7209245	WNW/174.5	1.43	32
6	BORE		ON	SSW/206.4	2.70	40
7	WWIS		lot 20 con 4 ON ***Well ID:*** 1503462	N/207.2	-2.36	40
8	WWIS		lot 20 con 4 ON ***Well ID:*** 1503456	S/233.0	2.69	43

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	SSW	206.39	6

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	NW	146.86	3

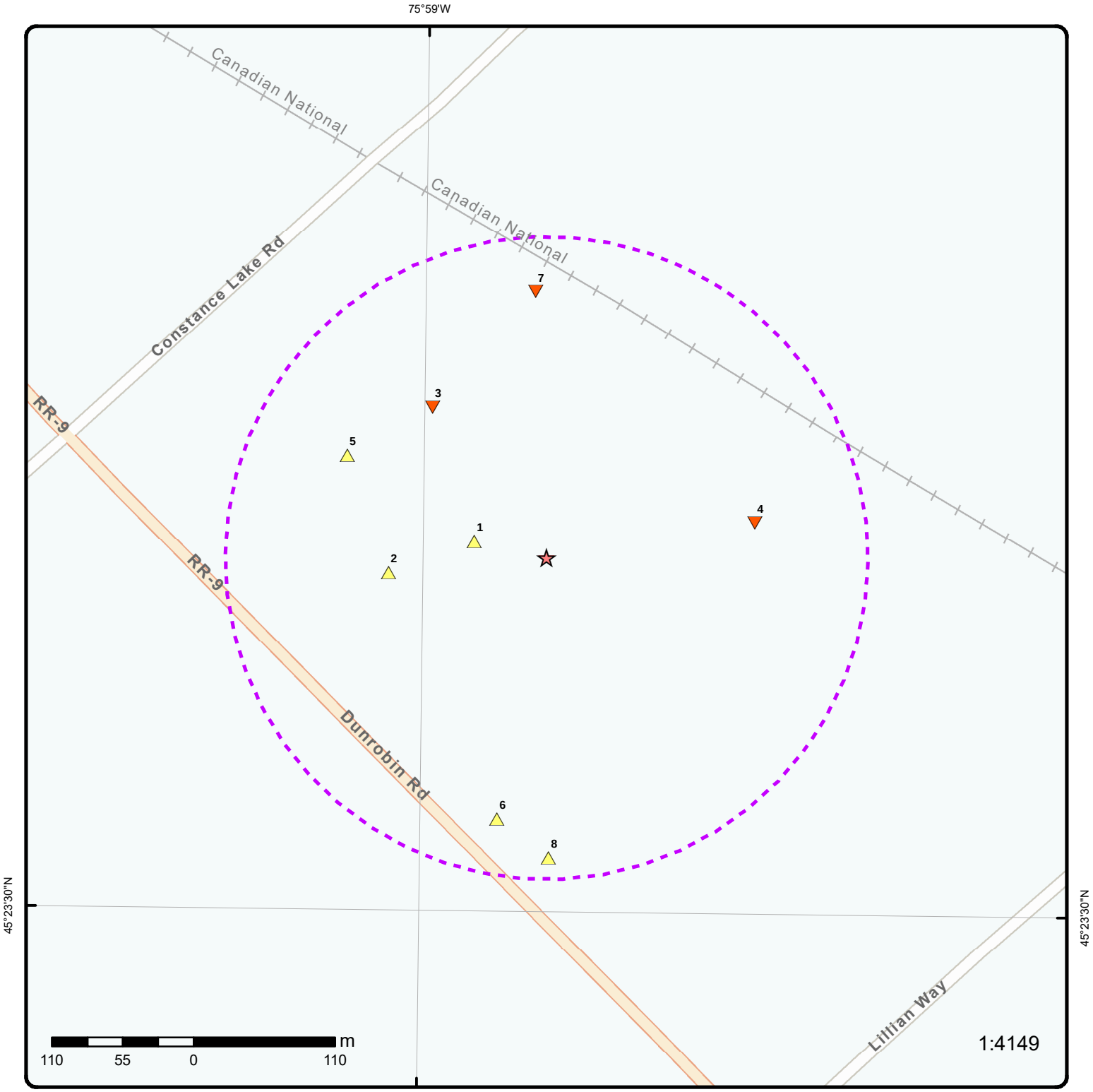
WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 6 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	2050 DUNROBIN RD lot 20 con 4 KANATA ON ***Well ID:*** 7048689	W	57.59	1
	100 CONSTANCE LAKE ROAD lot 20 con 4 ON ***Well ID:*** 7225178	W	123.57	2
	12 CONSTANCE LAKE RD lot 20 con 4 DUNROBIN ON ***Well ID:*** 7209245	WNW	174.53	5
	lot 20 con 4 ON ***Well ID:*** 1503456	S	232.96	8

Lower Elevation	Address	Direction	Distance (m)	Map Key

2050 DUNROBIN ROAD lot 20 con 4 KANATA ON ***Well ID:*** 7048690	E	164.15	**4**
lot 20 con 4 ON ***Well ID:*** 1503462	N	207.22	**7**



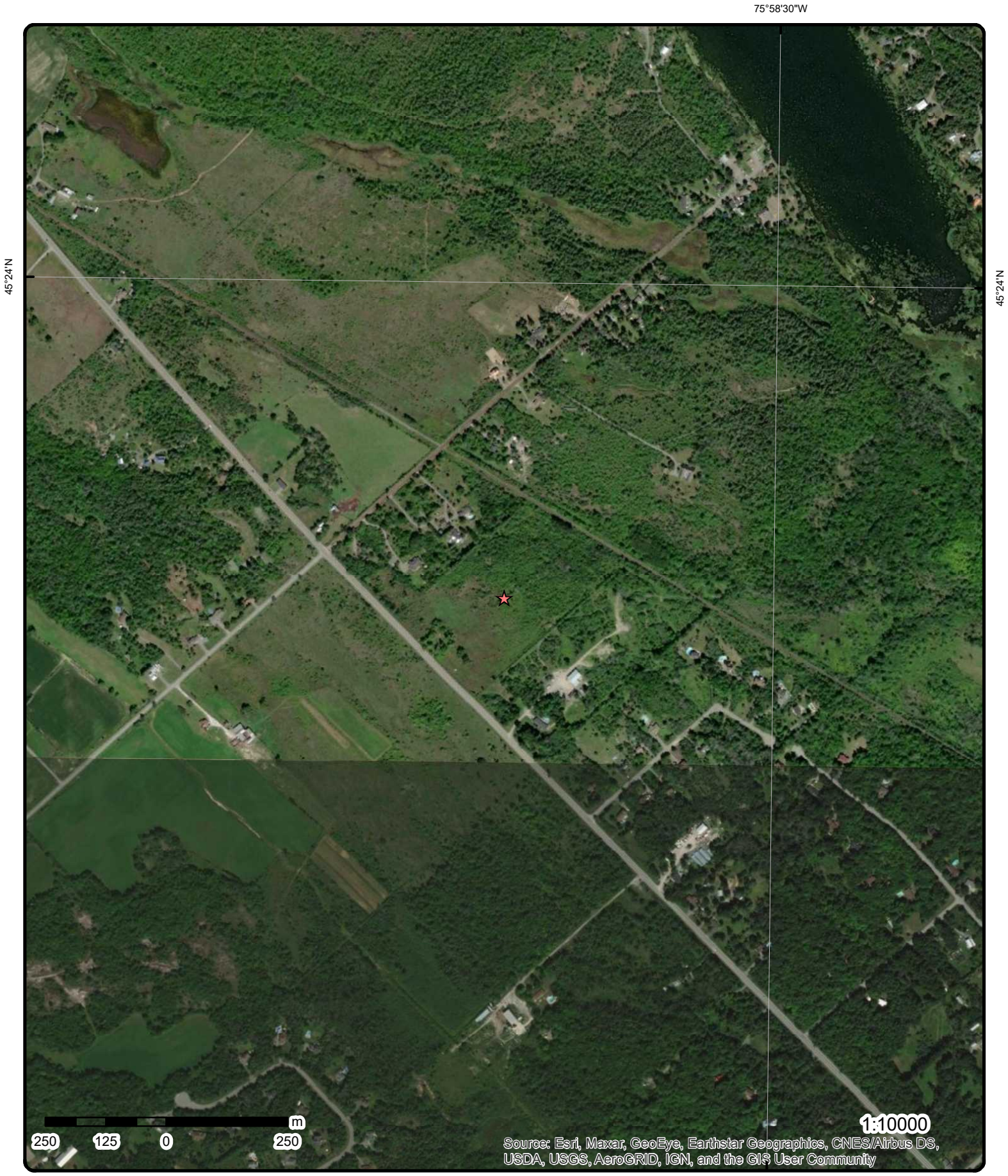
Map: 0.25 Kilometer Radius

Order Number: 22020900048
Address: 2050 Dunrobin Road, Kanata, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



Aerial

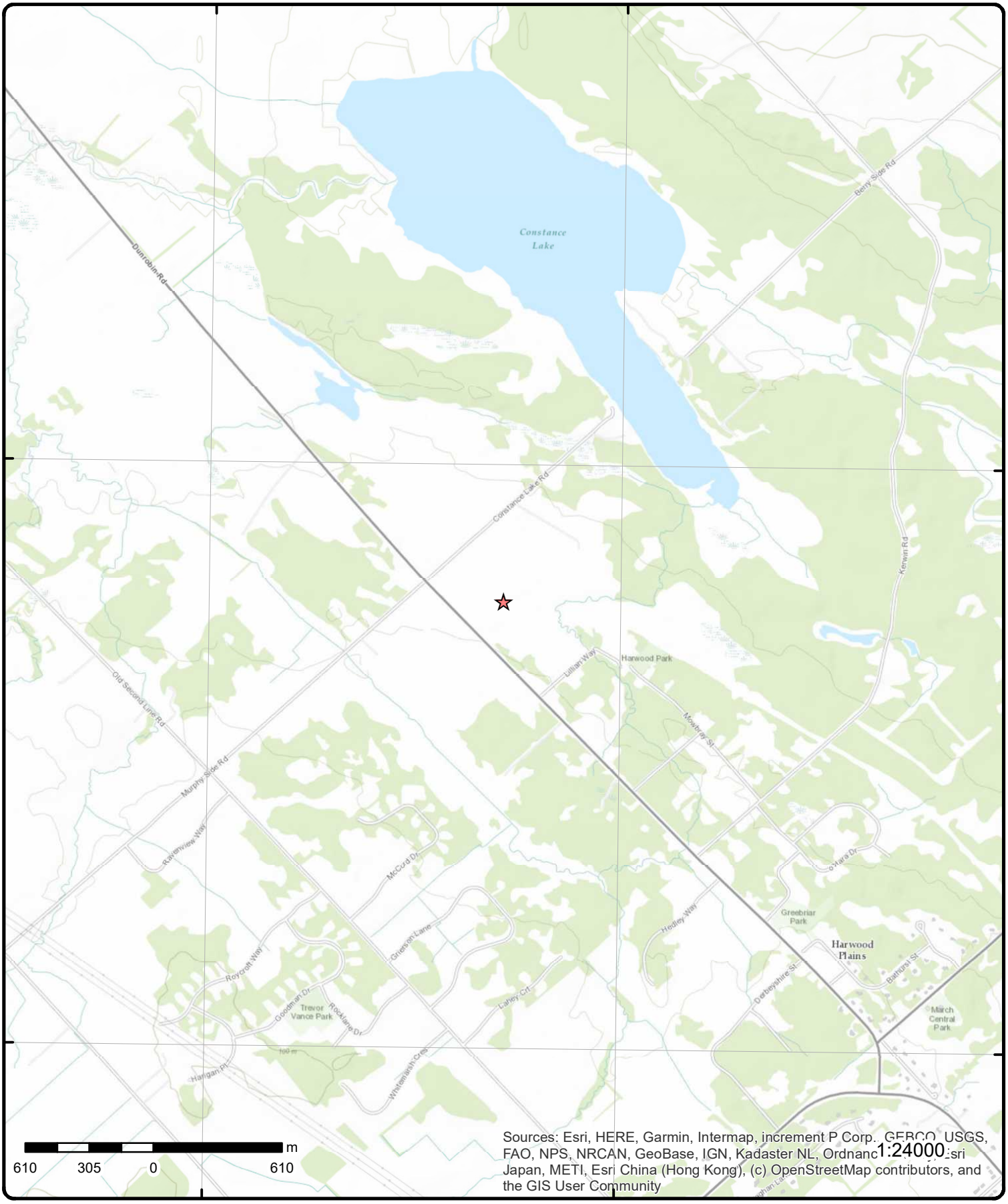
Year: 2020

Order Number: 22020900048

Address: 2050 Dunrobin Road, Kanata, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 22020900048

Address: 2050 Dunrobin Road, ON

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/57.6	77.9 / 0.69	2050 DUNROBIN RD lot 20 con 4 KANATA ON	WWIS

Well ID:	7048689	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	8/29/2007
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	3
Audit No:	Z65110	**Owner:**	
Tag:	A055118	**Street Name:**	2050 DUNROBIN RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	020
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7048689.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/06/18
Year Completed:	2007
Depth (m):	42.67
Latitude:	45.3942513740921
Longitude:	-75.9828054084279
Path:	704\7048689.pdf

Bore Hole Information

Bore Hole ID:	23048689	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	423073.00
Code OB Desc:		**North83:**	5027218.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	18-Jun-2007 00:00:00	**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:	30248689
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.30000001192092896
Formation End Depth:	11.890000343322754
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30348689
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	11.890000343322754
Formation End Depth:	26.81999969482422
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30148689
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.30000001192092896
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30448689
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	

Mat3:	
Mat3 Desc:	
Formation Top Depth:	26.81999969482422
Formation End Depth:	30.780000686645508
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30548689
Layer:	5
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.780000686645508
Formation End Depth:	42.66999816894531
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	44004184
Layer:	1
Plug From:	6.099999904632568
Plug To:	0.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	25948689
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	29048689
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	42248689
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	6.099999904632568
Depth To:	42.66999816894531
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Casing

Casing ID:	42148689
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0.0
Depth To:	6.710000038146973
Casing Diameter:	15.880000114440918
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Results of Well Yield Testing

Pump Test ID:	27048689
Pump Set At:	37.619998931884766
Static Level:	3.8299999237060547
Final Level After Pumping:	9.539999961853027
Recommended Pump Depth:	39.619998931884766
Pumping Rate:	30.280000686645508
Flowing Rate:	
Recommended Pump Rate:	30.280000686645508
Levels UOM:	m
Rate UOM:	LPM
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:	45028913
Test Type:	Recovery
Test Duration:	4
Test Level:	4.21999979019165
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028914
Test Type:	Draw Down
Test Duration:	4
Test Level:	6.820000171661377
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028915
Test Type:	Recovery
Test Duration:	3
Test Level:	4.579999923706055
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028917
Test Type:	Recovery
Test Duration:	2
Test Level:	5.059999942779541
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID: 45028918
Test Type: Recovery
Test Duration: 1
Test Level: 5.699999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028927
Test Type: Recovery
Test Duration: 5
Test Level: 3.700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028919
Test Type: Draw Down
Test Duration: 5
Test Level: 7.150000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028928
Test Type: Draw Down
Test Duration: 20
Test Level: 8.609999656677246
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028922
Test Type: Draw Down
Test Duration: 25
Test Level: 8.890000343322754
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028923
Test Type: Draw Down
Test Duration: 50
Test Level: 9.449999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028930
Test Type: Draw Down
Test Duration: 30
Test Level: 9.199999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028924
Test Type: Draw Down

Test Duration: 40
Test Level: 9.380000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028920
Test Type: Draw Down
Test Duration: 1
Test Level: 5.400000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028929
Test Type: Draw Down
Test Duration: 60
Test Level: 9.539999961853027
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028916
Test Type: Draw Down
Test Duration: 3
Test Level: 6.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028921
Test Type: Draw Down
Test Duration: 2
Test Level: 6.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028925
Test Type: Draw Down
Test Duration: 10
Test Level: 7.579999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028926
Test Type: Draw Down
Test Duration: 15
Test Level: 7.929999828338623
Test Level UOM: m

Water Details

Water ID: 41148689
Layer: 1
Kind Code:
Kind:
Water Found Depth: 27.1299991607666
Water Found Depth UOM: m

Water Details

Water ID:	41248689
Layer:	2
Kind Code:	
Kind:	
Water Found Depth:	30.780000686645508
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	46003021
Diameter:	15.229999542236328
Depth From:	0.0
Depth To:	42.66999816894531
Hole Depth UOM:	m
Hole Diameter UOM:	cm

2	1 of 1	W/123.6	78.9 / 1.69	100 CONSTANCE LAKE ROAD lot 20 con 4 ON	WWIS

Well ID:	7225178	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	8/7/2014
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3323
Casing Material:		***Form Version:***	7
Audit No:	Z177213	***Owner:***	
Tag:	A138751	***Street Name:***	100 CONSTANCE LAKE ROAD
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	020
Well Depth:		***Concession:***	04
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/722\7225178.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/05/20
Year Completed:	2014
Depth (m):	38.75
Latitude:	45.3940280067673
Longitude:	-75.9836575138886
Path:	722\7225178.pdf

Bore Hole Information

Bore Hole ID:	1005033179	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	423006.00
Code OB Desc:		***North83:***	5027194.00
Open Hole:		***Org CS:***	UTM83

Cluster Kind:		***UTMRC:***	5
Date Completed:	20-May-2014 00:00:00	***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:			

Overburden and Bedrock Materials Interval

Formation ID:	1005177148
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.5499999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005177149
Layer:	2
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	18
Mat3 Desc:	SANDSTONE
Formation Top Depth:	1.5499999523162842
Formation End Depth:	38.75
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005177183
Layer:	1
Plug From:	0.0
Plug To:	6.199999809265137
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1005177182
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1005177146
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005177153
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0.0
Depth To:	6.820000171661377
Casing Diameter:	15.550000190734863
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1005177154
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1005177147
Pump Set At:	9.300000190734863
Static Level:	1.3700000047683716
Final Level After Pumping:	4.03000020980835
Recommended Pump Depth:	9.300000190734863
Pumping Rate:	54.0
Flowing Rate:	
Recommended Pump Rate:	90.0
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1005177162
Test Type:	Recovery
Test Duration:	4
Test Level:	1.3700000047683716
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1005177169
Test Type:	Draw Down
Test Duration:	20

Test Level: 3.7200000286102295
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177170
Test Type: Recovery
Test Duration: 20
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177165
Test Type: Draw Down
Test Duration: 10
Test Level: 3.5799999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177171
Test Type: Draw Down
Test Duration: 25
Test Level: 3.7799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177175
Test Type: Draw Down
Test Duration: 40
Test Level: 3.930000066757202
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177180
Test Type: Recovery
Test Duration: 60
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177161
Test Type: Draw Down
Test Duration: 4
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177172
Test Type: Recovery
Test Duration: 25
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177176
Test Type: Recovery
Test Duration: 40
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177179
Test Type: Draw Down
Test Duration: 60
Test Level: 4.03000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177167
Test Type: Draw Down
Test Duration: 15
Test Level: 3.640000104904175
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177156
Test Type: Recovery
Test Duration: 1
Test Level: 2.5999999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177157
Test Type: Draw Down
Test Duration: 2
Test Level: 3.0999999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177163
Test Type: Draw Down
Test Duration: 5
Test Level: 3.4100000858306885
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177177
Test Type: Draw Down
Test Duration: 50
Test Level: 3.9700000286102295
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177178
Test Type: Recovery

Test Duration: 50
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177164
Test Type: Recovery
Test Duration: 5
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177166
Test Type: Recovery
Test Duration: 10
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177174
Test Type: Recovery
Test Duration: 30
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177158
Test Type: Recovery
Test Duration: 2
Test Level: 1.7000000476837158
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177168
Test Type: Recovery
Test Duration: 15
Test Level: 1.3700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177173
Test Type: Draw Down
Test Duration: 30
Test Level: 3.8299999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005177159
Test Type: Draw Down
Test Duration: 3
Test Level: 3.259999990463257
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID:	1005177155
Test Type:	Draw Down
Test Duration:	1
Test Level:	2.7300000190734863
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1005177160
Test Type:	Recovery
Test Duration:	3
Test Level:	1.4500000476837158
Test Level UOM:	m

Water Details

Water ID:	1005177152
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	37.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005177150
Diameter:	27.280000686645508
Depth From:	0.0
Depth To:	6.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1005177151
Diameter:	15.550000190734863
Depth From:	6.199999809265137
Depth To:	38.75
Hole Depth UOM:	m
Hole Diameter UOM:	cm

3	1 of 1	NW/146.9	76.9 / -0.24	ON	BORE

Borehole ID:	609916	***Inclin FLG:***	No
OGF ID:	215511530	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:		***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.395185
Total Depth m:	-999	***Longitude DD:***	-75.983236
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	423041
Drill Method:		***Northing:***	5027322
Orig Ground Elev m:	77.7	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable

DEM Ground Elev m: 77.3
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218384369
Top Depth: 0
Bottom Depth: .9
Material Color:
Material 1: Silt
Material 2: Sand
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SILT,SAND.

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

Geology Stratum ID: 218384370
Top Depth: .9
Bottom Depth: 9.4
Material Color:
Material 1: Bedrock
Material 2: Limestone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE.

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

Geology Stratum ID: 218384371
Top Depth: 9.4
Bottom Depth:
Material Color: Black
Material 1: Bedrock
Material 2: Sandstone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,SANDSTONE. T.LIMESTONE. WHITE. 00112SEISMIC VELOCITY = 17400. STONE. BLACK.

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: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 024240 NTS_Sheet: 31G05E
Confiden 1: Reliable information but incomplete.

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	E/164.2	76.9 / -0.27	2050 DUNROBIN ROAD lot 20 con 4 KANATA ON	WWIS

Well ID:	7048690	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	8/25/2007
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	3
Audit No:	Z65111	**Owner:**	
Tag:	A054034	**Street Name:**	2050 DUNROBIN ROAD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	020
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7048690.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/06/19
Year Completed:	2007
Depth (m):	54.86
Latitude:	45.3944013027799
Longitude:	-75.9800228682767
Path:	704\7048690.pdf

Bore Hole Information

Bore Hole ID:	23048690	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	423291.00
Code OB Desc:		**North83:**	5027232.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	19-Jun-2007 00:00:00	**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:	30348690
Layer:	3
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 42.970001220703125
Formation End Depth: 54.86000061035156
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30148690
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Mat2 Desc: SANDY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.570000171661377
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30248690
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.570000171661377
Formation End Depth: 42.970001220703125
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 44004185
Layer: 1
Plug From: 6.710000038146973
Plug To: 0.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 25948690
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 29048690
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	42148690
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0.0
Depth To:	7.309999942779541
Casing Diameter:	15.880000114440918
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Casing

Casing ID:	42248690
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	6.710000038146973
Depth To:	54.86000061035156
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Results of Well Yield Testing

Pump Test ID:	27048690
Pump Set At:	51.810001373291016
Static Level:	3.5299999713897705
Final Level After Pumping:	22.90999984741211
Recommended Pump Depth:	51.810001373291016
Pumping Rate:	37.849998474121094
Flowing Rate:	
Recommended Pump Rate:	37.849998474121094
Levels UOM:	m
Rate UOM:	LPM
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:	45028933
Test Type:	Draw Down
Test Duration:	15
Test Level:	13.390000343322754
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028940
Test Type:	Draw Down
Test Duration:	40
Test Level:	20.979999542236328
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID: 45028935
Test Type: Draw Down
Test Duration: 20
Test Level: 15.869999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028937
Test Type: Draw Down
Test Duration: 30
Test Level: 19.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028932
Test Type: Recovery
Test Duration: 10
Test Level: 4.800000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028934
Test Type: Recovery
Test Duration: 15
Test Level: 2.6700000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028944
Test Type: Recovery
Test Duration: 2
Test Level: 15.899999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028946
Test Type: Recovery
Test Duration: 1
Test Level: 18.200000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028948
Test Type: Draw Down
Test Duration: 10
Test Level: 11.600000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028950

Test Type: Draw Down
Test Duration: 60
Test Level: 22.90999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028936
Test Type: Draw Down
Test Duration: 25
Test Level: 18.209999084472656
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028949
Test Type: Draw Down
Test Duration: 5
Test Level: 9.0600004196167
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028941
Test Type: Draw Down
Test Duration: 4
Test Level: 8.100000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028947
Test Type: Draw Down
Test Duration: 2
Test Level: 6.46999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028931
Test Type: Recovery
Test Duration: 4
Test Level: 13.880000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028942
Test Type: Recovery
Test Duration: 3
Test Level: 14.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45028945
Test Type: Draw Down
Test Duration: 1
Test Level: 5.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID:	45028938
Test Type:	Draw Down
Test Duration:	50
Test Level:	21.600000381469727
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028939
Test Type:	Recovery
Test Duration:	5
Test Level:	12.789999961853027
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	45028943
Test Type:	Draw Down
Test Duration:	3
Test Level:	7.099999904632568
Test Level UOM:	m

Water Details

Water ID:	41248690
Layer:	2
Kind Code:	
Kind:	
Water Found Depth:	52.41999816894531
Water Found Depth UOM:	m

Water Details

Water ID:	41148690
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	24.989999771118164
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	46003022
Diameter:	15.229999542236328
Depth From:	0.0
Depth To:	54.86000061035156
Hole Depth UOM:	m
Hole Diameter UOM:	cm

5	*1 of 1*	*WNW/174.5*	*78.6 / 1.43*	***12 CONSTANCE LAKE RD lot 20 con 4 DUNROBIN ON***	***WWIS***

Well ID:	7209245	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	10/7/2013
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	

Water Type:		**Contractor:**	4875
Casing Material:		**Form Version:**	7
Audit No:	Z163804	**Owner:**	
Tag:	A142266	**Street Name:**	12 CONSTANCE LAKE RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	020
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7209245.pdf

Additional Detail(s) (Map)

Well Completed Date:	2013/09/22
Year Completed:	2013
Depth (m):	120
Latitude:	45.3948434830571
Longitude:	-75.9840804935795
Path:	720\7209245.pdf

Bore Hole Information

Bore Hole ID:	1004598785	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	422974.00
Code OB Desc:		**North83:**	5027285.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	22-Sep-2013 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004661591
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.6100000143051147
Formation End Depth:	13.720000267028809
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004661593
Layer:	4
Color:	1
General Color:	WHITE
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	36.599998474121094
Formation End Depth:	120.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004661590
Layer:	1
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	12
Mat2 Desc:	STONES
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	0.6100000143051147
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004661592
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	13.720000267028809
Formation End Depth:	36.599998474121094
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004661628
Layer:	1
Plug From:	
Plug To:	6.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004661627
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1004661588
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004661598
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	46.0
Depth To:	6.0
Casing Diameter:	15.829999923706055
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004661599
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1004661589
Pump Set At:	30.5
Static Level:	4.920000076293945
Final Level After Pumping:	8.329999923706055
Recommended Pump Depth:	30.5
Pumping Rate:	361.0
Flowing Rate:	
Recommended Pump Rate:	451.0
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	6
Pumping Duration MIN:	0
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1004661607
Test Type:	Recovery
Test Duration:	4
Test Level:	5.409999847412109

Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661612
Test Type: Draw Down
Test Duration: 15
Test Level: 8.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661601
Test Type: Recovery
Test Duration: 1
Test Level: 6.78000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661611
Test Type: Recovery
Test Duration: 10
Test Level: 5.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661614
Test Type: Draw Down
Test Duration: 20
Test Level: 8.270000457763672
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661618
Test Type: Draw Down
Test Duration: 30
Test Level: 8.3100004196167
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661620
Test Type: Draw Down
Test Duration: 40
Test Level: 8.319999694824219
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661621
Test Type: Recovery
Test Duration: 40
Test Level: 4.960000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661625
Test Type: Recovery
Test Duration: 60
Test Level: 4.960000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661605
Test Type: Recovery
Test Duration: 3
Test Level: 5.599999904632568
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661613
Test Type: Recovery
Test Duration: 15
Test Level: 5.070000171661377
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661615
Test Type: Recovery
Test Duration: 20
Test Level: 5.03000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661602
Test Type: Draw Down
Test Duration: 2
Test Level: 6.880000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661603
Test Type: Recovery
Test Duration: 2
Test Level: 6.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661604
Test Type: Draw Down
Test Duration: 3
Test Level: 7.309999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661608
Test Type: Draw Down
Test Duration: 5

Test Level: 7.75
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661609
Test Type: Recovery
Test Duration: 5
Test Level: 5.309999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661616
Test Type: Draw Down
Test Duration: 25
Test Level: 8.289999961853027
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661610
Test Type: Draw Down
Test Duration: 10
Test Level: 8.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661600
Test Type: Draw Down
Test Duration: 1
Test Level: 6.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661606
Test Type: Draw Down
Test Duration: 4
Test Level: 7.579999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661619
Test Type: Recovery
Test Duration: 30
Test Level: 4.980000019073486
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661624
Test Type: Draw Down
Test Duration: 60
Test Level: 8.329999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661617
Test Type: Recovery
Test Duration: 25
Test Level: 5.019999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661622
Test Type: Draw Down
Test Duration: 50
Test Level: 8.329999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004661623
Test Type: Recovery
Test Duration: 50
Test Level: 4.960000038146973
Test Level UOM: m

Water Details

Water ID: 1004661596
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 26.799999237060547
Water Found Depth UOM: m

Water Details

Water ID: 1004661597
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 34.20000076293945
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004661594
Diameter: 22.860000610351562
Depth From: 0.0
Depth To: 6.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004661595
Diameter: 15.239999771118164
Depth From: 6.0
Depth To: 36.599998474121094
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	1 of 1	SSW/206.4	79.9 / 2.70	ON	BORE

Borehole ID:	609912	**Inclin FLG:**	No
OGF ID:	215511526	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:	2.4	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.392311
Total Depth m:	-999	**Longitude DD:**	-75.982547
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	423091
Drill Method:		**Northing:**	5027002
Orig Ground Elev m:	80.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384364	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	White	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: BEDROCK,LIMESTONE. WATER STABLE AT 257.0 FEET.LIMESTONE. WHITE. 00112SEISMIC VE **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 024200 NTS_Sheet: 31G05E
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 1	N/207.2	74.8 / -2.36	lot 20 con 4 ON	WWIS

Well ID:	1503462	**Data Entry Status:**	
Construction Date:		**Data Src:**	1

Primary Water Use:	Domestic	**Date Received:**	5/17/1966
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	020
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503462.pdf

Additional Detail(s) (Map)

Well Completed Date:	1966/04/12
Year Completed:	1966
Depth (m):	18.288
Latitude:	45.3960026002464
Longitude:	-75.9822276188356
Path:	150\1503462.pdf

Bore Hole Information

Bore Hole ID:	10025505	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	423120.60
Code OB Desc:		**North83:**	5027412.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	12-Apr-1966 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996855
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996857
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 31.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996856
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 31.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503462
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574075
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043760
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 60.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	930043759
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503462
Pump Set At:	
Static Level:	9.0
Final Level After Pumping:	35.0
Recommended Pump Depth:	50.0
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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

Water Details

Water ID:	933456374
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	58.0
Water Found Depth UOM:	ft

8 ***1 of 1*** ***S/233.0*** ***79.9 / 2.69*** ***lot 20 con 4 ON*** ***WWIS***

Well ID:	1503456	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	10/29/1957
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4833
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	020
Well Depth:		***Concession:***	04
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	

Flow Rate:
Clear/Cloudy:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503456.pdf

Additional Detail(s) (Map)

Well Completed Date: 1957/10/08
Year Completed: 1957
Depth (m): 8.5344
Latitude: 45.3920437079988
Longitude: -75.9820312813912
Path: 150\1503456.pdf

Bore Hole Information

Bore Hole ID: 10025499
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08-Oct-1957 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 423130.60
North83: 5026972.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 930996845
Layer: 1
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503456
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574069
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID:	930043747
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	10.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043748
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	28.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503456
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	12.0
Recommended Pump Depth:	
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933456367
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	26.0
Water Found Depth UOM:	ft

Unplottable Summary

Total: 8 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Fallowfield Road and O'Keefe Court	Lots 20 and 21, Concession 4	Ottawa ON	
GEN	CANADIAN NATIONAL RAILWAY	VARIOUS SITES WITHIN THE MOE MOE EASTERN REGION	(SEE SCHEDULE "B") ON	
GEN	Trans Northern Pipelines Inc.	Lot 20 And Road Allowance Between Lots 20 & 21 Rid	Ottawa ON	K1X 1E6
GEN	CANADIAN NATIONAL RAILWAY	VARIOUS SITES WITHIN THE MOE MOE EASTERN REGION	(SEE SCHEDULE "B") ON	
LIMO	Ridge Road Landfill The Corporation of the City of Ottawa City of Ottawa	Lot 19-20, Concession 3 Ottawa	ON	
PTTW	Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.	Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa	ON	
SPL		Dunrobin	Ottawa ON	
SPL	CANADIAN NATIONAL RAILWAY	STORAGE TANKS	OTTAWA CITY ON	

Unplottable Report

Site: ***Fallowfield Road and O'Keefe Court***
Lots 20 and 21, Concession 4 Ottawa ON

Database: ***CA***

Certificate #:	1308-4WQSW8
Application Year:	01
Issue Date:	5/18/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the City of Ottawa
Client Address:	110 Laurier Avenue West
Client City:	Ottawa
Client Postal Code:	K1P 1J1
Project Description:	Watermains to be constructed on Fallowfield Road and O'Keefe Court
Contaminants:	
Emission Control:	

Site: ***CANADIAN NATIONAL RAILWAY***
VARIOUS SITES WITHIN THE MOE MOE EASTERN REGION (SEE SCHEDULE "B") ON

Database: ***GEN***

Generator No:	ONR000704	***Status:***	
SIC Code:	482113	***Co Admin:***	
SIC Description:	Mainline Freight Rail Transportation	***Choice of Contact:***	
Approval Years:	2012	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	254
Waste Class Desc:	TRANSFER STATION OILS WASTES
Waste Class:	231
Waste Class Desc:	LATEX WASTES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	270
Waste Class Desc:	OTHER SPECIFIED ORGANICS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	211
Waste Class Desc:	AROMATIC SOLVENTS

Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	147
Waste Class Desc:	CHEMICAL FERTILIZER WASTES
Waste Class:	266
Waste Class Desc:	PHENOLIC WASTES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	113
Waste Class Desc:	ACID WASTE - OTHER METALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	222
Waste Class Desc:	HEAVY FUELS
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	269
Waste Class Desc:	NON-HALOGENATED PESTICIDES
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

Site: ***Trans Northern Pipelines Inc.***
Lot 20 And Road Allowance Between Lots 20 & 21 Rid Ottawa ON K1X 1E6

Database: ***GEN***

Generator No:	ON9068390	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Jul 2020	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	146 L
Waste Class Desc:	Other specified inorganic sludges, slurries or solids

---

Site: ***CANADIAN NATIONAL RAILWAY***
VARIOUS SITES WITHIN THE MOE MOE EASTERN REGION (SEE SCHEDULE "B") ON

Database: ***GEN***

Generator No:	ONR000704	***Status:***	

SIC Code:	482113	***Co Admin:***	
SIC Description:	MAINLINE FREIGHT RAIL TRANSPORTATION	***Choice of Contact:***	
Approval Years:	2013	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class: 231
Waste Class Desc: LATEX WASTES

Waste Class: 270
Waste Class Desc: OTHER SPECIFIED ORGANICS

Waste Class: 147
Waste Class Desc: CHEMICAL FERTILIZER WASTES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

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

Waste Class: 269
Waste Class Desc: NON-HALOGENATED PESTICIDES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 254
Waste Class Desc: TRANSFER STATION OILS WASTES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 266
Waste Class Desc: PHENOLIC WASTES

Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	113
Waste Class Desc:	ACID WASTE - OTHER METALS
Waste Class:	222
Waste Class Desc:	HEAVY FUELS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

Site: ***Ridge Road Landfill The Corporation of the City of Ottawa City of Ottawa***
Lot 19-20, Concession 3 Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	A460703	***Natural Attenuation:***	
Oper Status 2016:	Closed	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	
Leachate Coll Sys:		***TWR Unit:***	
ERC Est Vol (m3):		***Tot Aprv Cap Unit:***	
ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***MOE Region:***	
Source File Type:		***MOE District:***	
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			
Approved Waste Type:			
Client Site Name:			
ERC Methodology:			
Site Name:	Ridge Road Landfill The Corporation of the City of Ottawa City of Ottawa		
Site Location Details:			
Service Area:			
Page URL:			

Site: ***Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.***
Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa ON

Database: ***PTTW***

EBR Registry No:	IA06E1038	***Decision Posted:***	
Ministry Ref No:	6114-6SQHA7	***Exception Posted:***	
Notice Type:	Instrument Final Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	November 30, 2006	***Act 2:***	
Proposal Date:	August 17, 2006	***Site Location Map:***	
Year:	2006		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			

Posted By:
Company Name: Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:

Site Location Details:

Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa

Site: ***Database:*** ***SPL***
Dunrobin Ottawa ON

Ref No:	7053-68LRKV	***Discharger Report:***	0
Site No:		***Material Group:***	Waste
Incident Dt:	1/13/2005	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Tank (Above Ground) Leak	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	FURNACE OIL AND WATER MIXTURE	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Groundwater Pollution; Soil Contamination; Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	1/13/2005	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	M.C.B.S. - Fuel Safety; Spills
Incident Reason:		***Source Type:***	
Site Name:	260 Thomas Dolan Parkway <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Private Res: unk quan oil to ground		
Contaminant Qty:			

Site: ***CANADIAN NATIONAL RAILWAY STORAGE TANKS OTTAWA CITY ON*** ***Database:*** ***SPL***

Ref No:	32199	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	3/16/1990	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20101
Nature of Impact:	Water course or lake	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	EPS, OTTAWA, NATIONAL TRANSPORT
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	3/16/1990	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	UNKNOWN	***Source Type:***	

Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: CN RAIL - 900L OIL TO WALKLEY YARD
Contaminant Qty:

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 Nov 2021

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-Sep 30, 2021

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 2019

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: May 31, 2021

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-Sep 30, 2021

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 -Nov 2021

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-Jul 2021

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, 2021

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: May 31, 2021

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, 2021

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, 2021

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, 2021

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-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

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: May 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-Nov 2021

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: May 31, 2021

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-Nov 30, 2021

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 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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-Dec 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, 2019

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-Jun 30, 2021

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-Nov 30, 2021

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-Jan 2021

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, 2021

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, 2021

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: May 31, 2021

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, 2021

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: 1986-1990, 1992-2019

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-Dec 2021

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-Sep 30, 2021

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-Sep 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, 2018

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 - Dec 2020

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: May 31, 2021

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, 2021

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Sep 30, 2021

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.

ATTACHMENT F

SITE PHOTOGRAPHS

View of Site facing northeast

View of Site facing southeast

View of site in 2016 using Google Streetview facing east

View of site in 2016 using Google Streetview facing southeast

Front of site facing east

View of roadway construction after topsoil was stripped

View of some fill materials used in roadway

View of site facing east

View of creek located in southeast portion of site. Creek flows east.

View of steel cased well at site.

ATTACHMENT G

MECP CORRESPONDENCE

Kollaard Associates
Engineers
210 Prescott Street
P.O. Box 189
Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Hydrogeology

(613) 860-0923

FAX: (613) 258-0475

February 14, 2021 200977

Ministry of the Environment, Conservation and Parks
2430 Don Reid Drive
Ottawa, Ontario
K1H 1E1

Attention: Abatement Officer

Re: 2050 DUNROBIN ROAD
PART 1, PLAN 5R-10284
PART OF LOT 20, CONCESSION 4, WEST CARLETON WARD
PIN 04530-0062
CITY OF OTTAWA, ONTARIO

Dear Sirs/Madam:

We have been retained by Euroamber Inc. to carry out a Phase I ESA for the above noted site. Accordingly, we would be pleased if you would provide us with information concerning any historical or existing incidents at or in the vicinity of the above site on file with the Ontario Ministry of the Environment, Conservation and Parks.

Sincerely,
KOLLAARD ASSOCIATES, INC.

Dean Tataryn, B.E.S., EP.

Professional Engineers Ontario
Authorized by the Association of Professional Engineers of Ontario to offer professional engineering services.

ATTACHMENT H

PROPERTY INFORMATION

City of Ottawa
Property Information
Source: https:\\maps.ottawa.ca\geoOttawa
Date/Time Generated: 2022-02-09, 3:00:16 p.m.

Property Parcel:
Calculated Parcel Area[i]: 90118.98 m^2 (970031.69 ft^2) (9.01 ha)

Main Address:
2050 DUNROBIN RD

Solid Waste Collection:
Waste Contractor: Miller
Zone: 1
Pickup Day/Calendar: MONDAY/B

Ward Information
Number: 5
Ward Name: West Carleton – March
Councillor Name: Eli El-Chantiry

Property aerial photo

[i]The property parcel area value shown is based on the parcel selected to generate the report.