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Phase One Environmental Site Assessment
4 Campbell Reid Court
Ottawa, Ontario

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Submitted to:

Mr. Andrzej Olender
1405 Houston Crescent
Ottawa, Ontario
K2W 1B6

Phase One Environmental Site Assessment
4 Campbell Reid Court
Ottawa, Ontario

May 31, 2023
Project: 65013.01

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Ottawa, ON, Canada
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May 31, 2023 File: 65013.01

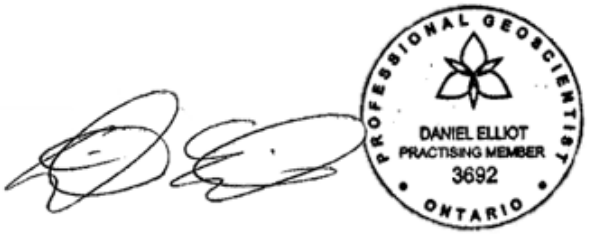
1405 Houston Crescent
Ottawa, Ontario
K2W 1B6

Attention: Mr. Andrzej Olender

Re: Phase One Environmental Site Assessment
4 Campbell Reid Court
Ottawa, Ontario

Enclosed is our Phase One Environmental Site Assessment report for the above-noted property. The report presented herein is based on the scope of work summarized in our proposal dated April 15, 2021. This report was prepared by Mohit Bhargav MScE, EIT and senior reviewed by Su-Kim Roy M.Eng., P.Eng, dated September 30, 2021. Revisions to the report were completed by Adrian Williams, B.Sc., GIT, and senior reviewed by Daniel Elliot, Senior Geoscientist, B.Sc., P.Geo.

Sincerely,



May 31, 2023

Adrian William, B.Sc., GIT
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MB/AW/DE

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Enclosures:
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EXECUTIVE SUMMARY

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Mr. Andrzej Olender to carry out a Phase One Environmental Site Assessment (ESA) for the property located at 4 Campbell Reid Court in Ottawa, Ontario (hereafter referred to as the "subject property"). It is understood that this Phase One ESA is required to support a site plan control application for a future two storey commercial building development being considered for the property. The proposed commercial building will have a footprint of approximately 6,000 square feet (557.5 square metres (m2)). The proposed development will also include an asphalt surfaced access road, gravel surfaced parking sections, septic system, and a storm water management pond.

This Phase One ESA was completed in general accordance with the CSA Group standard Z768-01 (R2016) and general industry standards including Ontario Regulation (O.Reg.) 153/04 as amended. It is GEMTEC's understanding that the zoning of the subject property will not be changing to a more sensitive land use and that the filing of a Record of Site Condition (RSC), as regulated by Ontario Regulation 153/04 under the Environmental Protection Act, will not be required.

The primary objective of this Phase One ESA was to identify any former or current potentially contaminating activities at the subject property and within the study area to develop a preliminary determination of the likelihood of contamination in soil or groundwater, and to determine the need for a Phase Two ESA. The general objectives were met though the evaluation of the information gathered from the review of records, an interview and a site reconnaissance.

Based on review of records and the site reconnaissance, one Area of Potential Environmental Concern (APEC) was identified on the subject property and are summarized below:

APEC 1 – Historical Importation of Fill Material of Unknown Quality (On-site)

Through a review of aerial photographs, the subject property has had an on-site building (initial site development observed sometime after 1984) and therefore fill of unknown quality has likely been imported on-site in the past. Based on GEMTEC's geotechnical report titled "*Geotechnical Investigation Proposed Commercial Building 4 Campbell Reid Court Ottawa Ontario*" dated July 12, 2021, the site is covered with a superficial layer of fill material, which was encountered at all test pits locations advanced during the geotechnical investigation. The fill material was variable across the site but can generally be described as dark brown/grey gravelly sandy silt with organics, rootlets, roots, cobbles, boulders, and construction debris. In addition, as per testimonial evidence from Mr. Olender, the western portion of the subject property was used as a storage site for fill material. The associated contaminants of potential concern are PAHs, M&I, PHCs F1-F4, and VOCs in soil and groundwater. This APEC is present across the property. *PCA#30 - Importation of Fill Material of Unknown Quality.*

GEMTEC concludes that there is a potential for soil and groundwater contamination at the subject property. As such, completion of a Phase Two ESA to investigate soil and groundwater quality on the subject property is recommended.

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1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Mr. Andrzej Olender to carry out a Phase One Environmental Site Assessment (ESA) for the property located at 4 Campbell Reid Court in Ottawa, Ontario (hereafter referred to as the "subject property"). It is understood that this Phase One ESA is required to support a site plan control application for a future two storey commercial building development being considered for the property. The proposed commercial building will have a footprint of approximately 6,000 square feet (557.5 square metres (m^2)). The proposed development will also include an asphalt surfaced access road, gravel surfaced parking sections, septic system, and a storm water management pond. The site location and study area are provided on Figure A.1, Appendix A.

This Phase One ESA was completed in general accordance with the CSA Group standard Z768-01 (R2016) and general industry standards including Ontario Regulation (O.Reg.) 153/04 as amended. It is GEMTEC's understanding that the zoning of the subject property will not be changing to a more sensitive land use and that the filing of a Record of Site Condition (RSC), as regulated by Ontario Regulation 153/04 under the Environmental Protection Act, will not be required. The Phase One ESA was conducted by GEMTEC staff members whose qualifications are provided in Appendix B.

Currently, the subject property consists of a land parcel with an approximate area of 7,900 m^2 or 1.95 acres containing a two storey residential dwelling. The subject property is bound to the north by 2 Campbell Reid Court, to the east by Campbell Reid Court, to the west by Dunrobin Road and to the south by 6 and 8 Campbell Reid Court and March Road.

1.1 Phase One Property Information

The legal description for 4 Campbell Reid Court, Ottawa is as follows:

- PT LT 15 CON 3 MARCH PT 1, 5R13420 ; KANATA

The subject property is currently owned by A & G Olender Holdings Limited. The contact person for the subject property is Mr. Andrzej Olender.

2.0 SCOPE OF THE INVESTIGATION

2.1 General Objectives

The Phase One ESA was conducted in general accordance with CSA Group standard Z768-01, O.Reg. 153/04, as amended, and current industry standards. The general objectives of the Phase One ESA were:

- To develop a preliminary determination of the likelihood of contamination in soil or groundwater at the subject property; and,

- To determine the need for a Phase Two ESA.

The general objectives were met though the evaluation of the information gathered from the review of records, an interview and a site reconnaissance. Specific objectives for these components and the tasks completed to achieve these objectives are described in Section 2.2.

2.2 Records Review

In order to identify actual or potential sources of contamination within the study area, a review of information from the following sources was conducted:

- Bedrock and Overburden Geology Maps – Overburden and bedrock geology maps, provided by Natural Resources Canada, were reviewed in order to identify the underlying soil deposits and bedrock types on the subject property and in the study area.
- Title Abstract – A chain of title abstract for the subject property was provided by EcoLog ERIS and is included in Appendix C.
- EcoLog ERIS Databases – The EcoLog ERIS report searches more than 50 public and private information databases to identify potential environmental concerns. An EcoLog ERIS report was obtained for the subject property and a 250-metre-buffer surrounding the subject property. A copy of the EcoLog ERIS Report is provided in Appendix D.
- A records search was requested from the TSSA for the subject property (4 Campbell Reid Court) and adjacent properties located at 14 Campbell Reid Court and 640 and 1030 Cameron Harvey Drive in Ottawa, Ontario. The TSSA search results are provided in Appendix E.
- GeoOttawa and National Air Photo Library Aerial Photographs – Aerial photographs from the years 1965, 1976, 1991, 2005, 2011, 2015, and 2019 were reviewed for the subject property and the study area. The photographs were reviewed in order to identify areas of potential environmental concern resulting from historical land uses on the subject property and the surrounding areas. The 1945 and 1984 aerial photographs ordered as part of this investigation can be found in Appendix F. GeoOttawa aerials were reviewed, however they are not included as part of this report due to copyright limitations.
- Fire Insurance Maps and Reports – Based on our knowledge and prior experience completing Phase One ESAs for the vicinity, fire insurance plans were reviewed to assess the historical occupants in the study area, historical presence of storage tanks and general development of the study area over time.
- City Directories – Review of city directory listings and ownership history for the subject property were obtained from LGI Copy Service Canada to confirm the site development history. This information was used to assess the historical ownership/occupants at the subject property, the historical presence of USTs, industrial activities and development at the subject property. Full City Directory information could not be obtained due to current COVID-19 restrictions in place at the time of this reporting.

- Well Records – The Ministry of Environment, Conservation and Parks (MECP) Well Records for the subject property and a 250 meter buffer surrounding the subject property, were reviewed. A copy of the available MECP Well Records for the subject property and the buffer is provided in Appendix H.
- Freedom of Information (FOI) – FOI searches completed through the Ministry of the Environment, Conservation and Parks (MECP) consist of information obtained from documents and records from the Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch.
- "*Map of Federal Contaminated Sites Inventory*" prepared by Treasury Board of Canada Secretariat was reviewed.
- "*Ontario Inventory of PCB Storage Sites*" dated January 1992 and prepared by Ontario Ministry of the Environment (Waste Management Branch) was reviewed.
- "*Old Landfill Management Strategy – Phase 1 – Identification of Sites, City of Ottawa, Ontario*" dated October 2004 and prepared by Golder Associates Ltd. was reviewed.

2.3 Interview

The objective of the interview was to assist in the identification of Potentially Contaminating Activities (PCAs) that may have led to Areas of Potential Environmental Concern (APECs) at the subject property.

2.3.1 Interviews

An interview was carried out with Mr. Andrzej Olender on September 08, 2021. Mr. Olender is the owner and has approximately 5 years of knowledge with respect to the history and operations at the subject property and provided, to the best of his knowledge, a description of recent and past uses of the subject property and activities that could have contributed to contamination of on-site soil and groundwater.

2.4 Site Reconnaissance

The subject property was visually assessed on September 8, 2021 to document current conditions and to evaluate the potential for environmental impacts to on-site soil and groundwater. The site was also inspected to identify if any possible preferential pathways such as underground utilities exist on the subject property that may affect the fate, transport and distribution of contaminants. Adjacent properties were assessed from publicly accessible boundaries to evaluate the potential for environmental impacts to the subject property.

Photographs were taken to support pertinent observations and are provided in Appendix I.

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

The subject property has an approximate area of 7,900 m^2 (1.95 acres) with a two storey residential building and is located at 4 Campbell Reid Court in Ottawa, Ontario. The western portion of the property (close to the intersection of March Road and Dunrobin Road) is vacant.

The current land use in the study area is primarily residential.

Based on this information, a study area of 250 metres surrounding the subject property is deemed sufficient for the purpose of this Phase One ESA. The location of the subject property and the extent of the Phase One ESA study area, including the 250-metre radius buffer zone, are provided on the Site Location Plan, Figure A.1, Appendix A.

3.1.2 First Developed Use Determination

Based on the review of selected historical aerial photographs, land use in the study area has historically been residential properties interspersed with some community use roadways. Some properties in the study area appear to be agricultural. The subject property was vacant up to sometime prior to 1984, after which it appears to have become occupied by a residential building. Vacant land around the subject property has been developed into residential lots since 1984. Since 1984, the land use within the study area appears to have remained the same.

3.1.3 Fire Insurance Plans / Insurance Reports

The original Fire Insurance Plans (FIPs) were produced by Chas. E. Goad Co. between 1875 and 1923. These plans mapped urban areas of Canada and provided property-specific information such as building construction, building occupancy and potential fire hazards.

Based on our knowledge and prior experience completing Phase One ESAs for the vicinity, no fire insurance plans are available for the subject property or within the study area. A written response from Opta Information is provided in Appendix G.

3.1.4 Historical Reports

No historical environmental site assessment or remediation reports were provided to GEMTEC for review. However, based on GEMTEC's geotechnical report titled "*Geotechnical Investigation Proposed Commercial Building 4 Campbell Reid Court Ottawa Ontario*" dated July 12, 2021, the site is covered with a superficial layer of fill material, which was encountered at all test pits locations advanced during the geotechnical investigation. The fill material was variable across the site but can generally be described as dark brown/grey gravelly sandy silt with organics, rootlets, roots, cobbles, boulders, and construction debris. In addition, analytical results from potable

groundwater sampling completed on-site in February of 2019 were available for the subject property and were provided to GEMTEC for review. Based on the results of the potable water sampling, the following exceedances to the Health Canada Guidelines for Canadian Drinking Water Quality criteria were noted:

Table 3.1: Drinking Water Analytical Results

Group	Analyte	MRL*	Units	Guideline**	Sample ID: Kitchen Tap
Anions	Chloride	1	mg/L	AO ≤ 250	799
General Chemistry	TDS (COND – CALC)	1	mg/L	AO ≤ 500	1960
Metals	Manganese	0.2	mg/L	AO ≤ 0.02	<0.1
	Sodium	2	mg/L	AO ≤ 200	596

Notes:
MRL* - Method Reporting Limit
Guideline** - Guidelines for Canadian Drinking Water Quality Summary Table, Health Canada (Federal-Provincial-Territorial Committee on Drinking Water of the Federal-Provincial-Territorial Committee on Health and the Environment)
AO – Aesthetic Objective

3.2 Environmental Source Information

3.2.1 Chain of Title

The Parcel Register Abstract for PIN is 04532-0181 (LT); and legal description for the subject property is PT LT 15 CON 3 MARCH PT 1, 5R13420; KANATA. A copy of the Parcel Register Abstracts is provided in Appendix C.

The property is currently owned by A & G Olender Holdings Inc. No PCAs were identified from the review of the title search.

3.2.2 EcoLog ERIS Database Report

GEMTEC contacted EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) to conduct a search of over 50 public and private information databases for the subject property and the area within 250 metres of the subject property. The complete EcoLog Eris report, including a list of databases searched, is provided in Appendix D.

All listings in the EcoLog ERIS report were reviewed and the relevant highlights pertaining to potentially contaminating activities are as follows:

Table 3.2: EcoLog ERIS Report Summary

PCA	Address / Location	Distance from Subject Property	Company / Name	Description
Database: Ontario Regulation 347 Waste Generators Summary - GEN				
58. Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	15 Campbell Reid Court	145 m east	Gallagher's Garage Ltd.	Generator No. ON2046400 Listed as a garage (gen. repair) and listed as generator for waste oils & lubricants Approval year from 1995-2001

The unplottable report summary was reviewed to determine if any of the records were located on the subject property or within the study area. Many of the entries were located geographically by road name or company. Due to the uncertainty related to the entries describing these activities, the entries could not be confirmed as being present within the study area.

3.2.3 City Directories

A response to the City Directories request has not yet been received from the LGI Copy Service Canada (LGI). If the LGI's response identifies records with respect to the subject property which indicate areas of potential environmental concern which change the findings of this Phase One ESA, the client will be notified.

3.3 Regulatory Information

3.3.1 Freedom of Information

A Freedom of Information (FOI) request for records on the subject property was sent to the MECP in August 2021. FOI responses consist of information obtained from documents and records from the Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch.

A response to the FOI request was received on January 27, 2022, which stated that no records were located in response to the request. The FOI request response is provided in Appendix K. The outcome of the Phase One ESA was not affected by this update.

3.3.2 Technical Standards and Safety Authority

The Technical Standards and Safety Authority (TSSA) was contacted on August 26, 2021 to request available records regarding the subject property (4 Campbell Reid Court) and adjacent properties located at 15 Campbell Reid Court and 640 and 1030 Cameron Harvey Drive in Ottawa, Ontario.

The response from TSSA indicated that they have no records for the searched properties. A copy of the search request and the response from the TSSA are provided in Appendix E.

3.3.3 Mapping of Federal Contaminated Sites

A Government of Canada, Treasury Board of Canada Secretariat, interactive map of contaminated sites was reviewed. The database provides an inventory of over 4,000 federally owned contaminated sites across the country. The database did not identify any federally owned contaminated sites within the study area.

3.3.4 Ontario Inventory of PCB Storage Sites

The Waste Management Branch of the Ontario Ministry of the Environment, Conservation and Parks (MECP) published an Ontario Inventory of PCB Storage Sites in October 1991. The publication includes information of PCB storage sites collected under O.Reg 11/82 through MECP district and regional offices. The database did not identify any PCB storage sites within the study area.

3.3.5 Landfills

Golder Associates Ltd. published an Old Landfill Management Strategy – Phase 1 – Identification of Sites, City of Ottawa, Ontario dated October 2004. The publication includes information to identify old landfill sites for potential environmental considerations within the boundary of the amalgamated City of Ottawa. The database did not identify any landfills on the subject property or within the study area.

3.4 Physical Setting Sources

3.4.1 Aerial Photographs

Aerial photographs were obtained at regular intervals and were selected considering suitable scale for analysis and coverage area. The earliest aerial photograph obtained was from 1965. Observations made with respect to the selected aerial photographs are summarized in Table 3.3.

Table 3.3: Summary of Aerial Photograph Review

Date	Photograph Number	Observations
1945	National Air Photo Library - NAPL	Although, the photo resolution is poor, the subject property appears to be vacant and covered with vegetation.
1954	National Air Photo Library - NAPL	No significant changes observed from the 1945 aerial photograph.
1965	GeoOttawa – Publically Available	No significant changes observed from the 1954 aerial photograph.
1976	GeoOttawa – Publically Available	No significant changes observed from the 1965 aerial photograph.
1984	National Air Photo Library - NAPL	A residential building appears to be present on the subject property with the western portion of the property covered with vegetation.
1991	GeoOttawa – Publically Available	No significant changes observed from the 1984 aerial photograph.
2002	GeoOttawa – Publically Available	The western portion of the subject property appears to be covered with fill material
2005	GeoOttawa – Publically Available	No significant changes observed from the 2002 aerial photograph.
2008	GeoOttawa – Publically Available	No significant changes with respect to the residential building, but the location of the septic tank appears to be covered with sand.
2011	GeoOttawa – Publically Available	No significant changes observed from the 2008 aerial photograph.
2015	GeoOttawa – Publically Available	The location of the septic tank now appears to be covered with vegetation (grass).
2019	GeoOttawa – Publically Available	The northern portion of the residential building, on the subject property, appears to be damaged due to a fire incident reportedly occurring in 2018/2019. No other changes with respect to the subject property were observed.

A copy of the 1945, and 1984 aerial photographs ordered as part of this investigation is provided in Appendix F.

Based on the review of selected historical aerial photographs, the subject property appears to be vacant up until sometime in 1984. Based on the historical development of the subject property (anticipated sometime between 1976 and 1984), fill of unknown quality has likely been imported to the property in the past, *PCA #30. Importation of Fill Material of Unknown Quality*. In addition, as per testimonial evidence from Mr. Olender, the western portion of the subject property was used as a storage site for fill material. No significant changes are observed for the subject property since 1984 except for a fire incident that reportedly took place sometime in 2018/2019. Response from the City of Ottawa received October 21, 2021, did not indicate the use of firefighting foam or fire suppression. The northern portion of the residential building, on the subject property, appears to be damaged in the aerial photograph from 2019. The land parcels to the north of the subject property were vacant until sometime in 1984 as well. Several land parcels were developed and later occupied by residential buildings, which appear in the aerial photographs between 1984 and 2005. Since 2005, no significant changes have been observed for the study area.

3.4.2 Topography, Hydrology and Geology

A site topography map based on Ontario Basic Mapping is illustrated on the Figure A.3, Appendix A. The subject property has a relatively flat topography and is at an elevation of approximately 95 metres above sea level. Surrounding topography is relatively flat but generally slopes north and east towards the provincially significant wetland (Shirley's Bay), which is located approximately 1.5 kilometres (km) to the northeast of the subject property, and the Ottawa River, located approximately 5 km east of the site.

Surficial soil and bedrock geology maps of the Ottawa area indicate that the subsurface conditions are primarily characterized by shallow / at surface bedrock conditions i.e. dolostone and sandstone bedrock of the Beekmantown Group (Paleozoic bedrock). A soil type/description is not provided on the surficial soil maps.

Groundwater flow often reflects topographic features and typically flows toward nearby lakes, rivers and wetland areas. Based on the topography of the area, it is expected that regionally local shallow groundwater flow may trend north/easterly towards the Shirley's Bay and the Ottawa River.

3.4.3 Fill Materials

No stockpiled fill materials were observed on the subject property during the site reconnaissance. However, based on GEMTEC's geotechnical report titled *"Geotechnical Investigation Proposed Commercial Building 4 Campbell Reid Court Ottawa Ontario"* dated July 12, 2021, the site is covered with a superficial layer of fill material, which was encountered at all test pits locations advanced during the geotechnical investigation. The fill material was variable across the site but can generally be described as dark brown/grey gravelly sandy silt with organics, rootlets, roots, cobbles, boulders, and construction debris. In addition, fill material is anticipated to be present on the subject property based on historical development of the subject property and study area, and, as per testimonial evidence from Mr. Olender, the western portion of the subject property was used as a storage site for fill material in the past. *PCA#30 - Importation of Fill Material of Unknown Quality.*

3.4.4 Provincially Significant Wetlands and Areas of Natural Significance

Ontario's Ministry of Natural Resources and Forestry Natural Heritage Area Map was reviewed. No provincially significant wetland (PSWs) or Areas of Natural of Scientific Interest (ANSIs) were identified on the subject property or within the 250 m buffer zone study area.

3.4.5 Well Records

A copy of the Ministry of Environment, Conservation and Parks (MECP) Well Records for the subject property is provided in Appendix H; 21 wells were identified within this search radius however only 20 wells records were available. The locations of the adjacent wells, based on the UTM coordinates provided in the water well records, have been plotted on Figure A.3, Appendix A.

The MECP well records indicate that the soil stratigraphy in the area generally consists of sand / silty clay underlain by shallow bedrock (limestone/sandstone).

4.0 INTERVIEWS

4.1 Interviews

An in person interview was carried out with Mr. Andrzej Olender on September 08, 2021. Mr. Olender was identified as an interview candidate because he has approximately 5 years of knowledge with respect to the history and operations at the subject property. Details of the interview are summarized in the following sections. A summary of information obtained during the interviews is as follows:

- Mr. Olender confirmed that the subject property was developed as a residential property sometime between 1980 and 1990; and the subject property will be redeveloped into a mixed use (residential and commercial) subject property;
- Mr. Olender indicated that the shed/outhouse was constructed sometime in 2000;
- Mr. Olender confirmed that a fire incident took place at the subject property sometime in 2018/2019;
- Mr. Olender confirmed that the construction on the new residential building on the subject property was completed in 2021;
- Mr. Olender indicated that the building at the subject property is presently heated using natural gas. The previous building was also heated historically using natural gas fired heating system;
- Mr. Olender indicated that the building has central air conditioning;
- Mr. Olender confirmed that, to his knowledge, there were no underground or aboveground tanks on the subject property;
- Mr. Olender indicated that, to his knowledge, all debris including the foundation of the old building was taken for off-site disposal after the fire incident. The present building does not use any components of the old building;
- Mr. Olender confirmed that municipal water and sanitary sewers are not provided to the property by the City of Ottawa, but instead are serviced by on-site well and septic tanks. Other utilities including hydro and gas are being provided by utility providers; and,
- Mr. Olender mentioned that he is not aware of any prior environmental concerns/issues on the subject property.

4.2 Fire Incident at 4 Campbell Reid Court

As per the testimonial evidence from Mr. Olender, the old building was demolished and all the debris including the foundation was taken for off-site disposal after the fire incident. A response from the City of Ottawa was received on October 21, 2021, containing information records pertaining to the fire incident. The records did not indicate the use of firefighting foam for fire

suppression. The City of Ottawa's response to the request is provided in Appendix K. The outcome of the Phase I ESA Report is not affected.

4.3 Assessment and Evaluation of Interview

The interview, with Mr. Andrzej Olender, is consistent with historical records and other information sources.

No PCAs were identified during the site interviews/correspondence.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

A site reconnaissance was carried out on September 08, 2021, from approximately 08:30 am until 09:30 am. The weather at the time of the site reconnaissance was overcast with a temperature of approximately 22 °C.

The site reconnaissance was completed by Mr. Mohit Bhargav, MScE, EIT of GEMTEC. The site reconnaissance was carried out to determine if there were visually observable environmental concerns with the subject property and/or surrounding property uses.

5.1.1 Site Photographs

Photographs of the subject property were taken during the course of the site reconnaissance to document the general condition of the site. Selected relevant photographs are presented in Appendix I as summarized in Table 5.1.

Table 5.1: Summary of Site Photographs

Plate Number	Orientation	Description
I1	Outside – Western portion	Western portion of the subject property.
I2	Outside – Western portion	Anticipated fill material on the subject property.
I3	Outside – Western portion	Septic Tank location (with vent pipes).
I4	Outside – Eastern portion	Debris closer to the septic tank.
I5	Outside – Eastern portion	Chicken coop
I6	Outside – Eastern portion	Eastern portion of the subject property including the driveway.
I7	Inside – Residential building	Inside view of the residential building.

Plate Number	Orientation	Description
I8	Inside – Residential building (basement)	Inside view of the basement.
I9	Outside	Water well on the subject property.

It is noted that the domestic water supply well photographed in Plate I9 was observed to be closer than setback allowances described in the Ontario Building Code. An application to the MECP by the property Owner for a variance was submitted in January 2023 and is currently under review.

5.1.2 Observations

The following observations were made for subject property:

- The subject property was occupied by a two storey residential building (with a gravel driveway) and was serviced by a septic tank system and a water well at the time of site reconnaissance;
- Two roadside drainage ditches were identified closer to western (parallel to Dunrobin Road) and the southern (parallel to March Road) boundary of the subject property;
- The western portion of the subject property appeared to be covered with non-native material (anticipated fill material); and,
- No visual or olfactory signs of contamination was identified across the subject property.

5.2 Specific Observations within the Study Area

5.2.1 Services

The subject property is not serviced (for water and sewer services) by the City of Ottawa, instead the subject property has a water well and a septic tank system. Other utilities including hydro and gas are being provided by utility providers. Catch basins were not located in the area.

5.2.2 Water Bodies and Areas of Natural Significance

Ontario's Ministry of Natural Resources and Forestry Natural Heritage Map was reviewed. No provincially significant wetland (PSWs) or Areas of Natural of Scientific Interest (ANSIs) were identified on the subject property or within the 250 m buffer zone study area. However, Shirley's Bay, a provincially significant wetland, is located approximately 1.5 kilometres (km) to the northeast of the subject property.

5.2.3 Surrounding Properties

The following general observations were made for the properties adjacent to and surrounding the subject property:

- A residential property (2 Campbell Reid Court) is present to the north of the subject property;
- Campbell Reid Court is present along the eastern boundary of the subject property followed by residential properties;
- Dunrobin Road and March Road are present along the southern and the western boundaries of the subject property respectively; and,
- Residential properties (6 and 8 Campbell Reid Court) are present to the south of the subject property.

Potentially Contaminating Activities (PCAs) were identified within the general study area and are summarized below:

- Duntech Automotive Limited located at 15 Campbell Reid Court, southeast of the subject property - *PCA #10 – Commercial Autobody Shops and PCA #58 Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.*

5.3 Hazardous Materials

5.3.1 Lead

Under the federal Hazardous Products Act, the lead content in interior paint was limited to 0.5% by weight in 1976. After 1980, lead was not used in interior paints; however, exterior paints may have still contained lead. All consumer paints produced and imported into Canada were virtually lead-free as of 1992.

As per testimonial evidence from Mr. Olender, the previous building was demolished, and the debris (including foundation) was taken for off-site disposal sometime between 2019 and 2020. In addition, the new residential building was constructed in 2021. Based on the year of site development (in 2021), the presence and the use of lead based paints on the subject property is unlikely.

5.3.2 Mercury

Mercury is commonly found in thermostats and electrical switches, as well as mercury vapour-containing fluorescent light bulbs.

As per testimonial evidence from Mr. Olender, the previous building was demolished, and the debris (including foundation) was taken for off-site disposal sometime between 2019 and 2020. In addition, the new residential building was constructed in 2021. Based on the year of site development (in 2021), the presence of mercury containing items on the subject property is unlikely.

5.3.3 Storage Tanks

No storage tanks were observed on the subject property during the site reconnaissance.

5.3.4 Polychlorinated Biphenyl (PCBs)

From the 1930s to the 1970s, PCBs were used to make coolants and lubricants for certain kinds of electrical equipment, including transformers and capacitors, and were widely used in a number of industrial materials including sealing and caulking compounds, inks, and paint additives. PCBs are an environmental concern as they do not readily degrade and have been identified to bio-accumulate. In Canada, the Federal Environmental Contaminants Act (1976) prohibited the use of PCBs in heat transfer and electrical equipment installed after September 1, 1977, and in transformers and capacitors installed after July 1, 1980. In addition, the storage and disposal of PCB waste materials is regulated.

No pole mounted or pad mounted transformers were identified on the subject property but pole mounted transformers were present in the study area at the time of site reconnaissance.

5.3.5 Asbestos Containing Materials (ACM)

Asbestos has been used in many products in buildings and continues to be used in some building products today. Two categories of asbestos were used in building construction (i) non-friable asbestos-containing materials (ACMs), and (ii) friable ACMs. Products that contain non-friable (hard or non-crumbly) asbestos include floor tiles, cement sheeting and pipes, motor vehicle brakes, and roofing materials. The use of these products has declined significantly since the 1970s; however, these products are still legal and are still used in Canada today. Friable asbestos materials can be crumbled, pulverized, or reduced to powder by hand pressure. Due to the softer nature of these products, the fibres can more readily be released to the air where they can be inhaled. Most friable products were withdrawn from the Canadian market in the 1970s, and production of friable products ceased, and they were commercially unavailable by 1982. However, it was not until 1985 that provincial regulatory bodies enforced a complete ban on friable asbestos products. Common friable products included sprayed fireproofing, sprayed acoustic or decorative finishes, and thermal insulation on piping or mechanical systems.

As per testimonial evidence from Mr. Olender, the previous building was demolished and the debris (including foundation) was taken for off-site disposal sometime between 2019 and 2020. In addition, the new residential building was constructed in 2021. Based on the year of site development (in 2021), the presence of ACM building materials on the subject property is unlikely.

5.3.6 Urea Formaldehyde Foam Insulation (UFFI)

UFFI became an insulation product for existing houses in Canada in the 1970s; however, it was banned in Canada in 1980 under the Hazardous Products Act. UFFI can begin to deteriorate if exposed to water and moisture, and its degradation can also result in formaldehyde gas emissions.

As per testimonial evidence from Mr. Olender, the previous building was demolished and the debris (including foundation) was taken for off-site disposal sometime between 2019 and 2020. In addition, the new residential building was constructed in 2021. Based on the year of site development (in 2021), the presence of UFFIs on the subject property is unlikely.

5.3.7 Solid Waste Disposal Practices

Domestic waste is generated the subject property. Regular municipal waste collection is available in the study area.

5.3.8 Ozone Depleting Substances

In 1998, the Federal government filed the Ozone-Depleting Substances Regulations. The Regulations reflect Canada's commitment to meet its requirements under the Montreal Protocol on Substances that Deplete the Ozone Layer. The Montreal Protocol is an international agreement signed by over 180 countries to control the production and exchange of certain ozone-depleting substances. The Regulations are intended to further reduce emissions of ozone-depleting substances. The Regulations were amended in 2001, 2002, and 2004.

Central air conditioning and refrigerators were present in the building at the subject property. Type of refrigerant used was unknown, but the presence of ozone depleting substances is unlikely.

5.3.9 Radon Gas

Radon is a colourless, tasteless radioactive gas with a very short half-life of 3.8 days. The health risk potential of radon is associated with its rate of accumulation within confined areas, particularly confined areas near or in the ground, such as basements, where vapours can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure.

Based on GEMTECs review of the map entitled 'Radon Potential Map Ontario', the subject property is within a guarded potential (Zone 3) radon hazard area (REMC, 2011).

Actual radon concentrations can only be determined using Long-term Measurement techniques, as described within Health Canada's 'Guide for Radon Measurements in Public Buildings' document (Health Canada, 2016).

5.4 Unidentified Substances

No unidentified substances were identified at the time of the site reconnaissance.

5.5 Odours

No odours were identified at the time of the site reconnaissance.

5.6 Water, Wastewater and Storm Water

The subject property currently generates domestic wastewater. Additionally, the subject property is not serviced (for water and sewer services) by the City of Ottawa, instead has a water well and a septic tank system. Storm water is expected to infiltrate ground or flow northeasterly towards Shirley's Bay.

5.7 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed at the time of the site reconnaissance.

5.8 Stained Materials and Stressed Vegetation

No stained materials and stressed vegetation were observed at the time of the site reconnaissance.

5.9 Watercourses, Ditches or Standing Water

No watercourses or standing water were identified during site reconnaissance. Two roadside drainage ditches were identified closer to western (parallel to Dunrobin Road) and the southern (parallel to March Road) boundary of the subject property.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses

The property has been registered to A & G Olender Holdings Limited for approximately 5 years. The contact person for the subject property is Mr. Andrzej Olender.

6.2 Potentially Contaminating Activities

PCAs within the Phase One ESA study area and resulting APECs on the subject property are summarized in Table 6.1. PCA locations are shown on Figure A.1, Appendix A.

Table 6.1: Summary of Potentially Contaminating Activities

PCA Code	Address / Location	Distance from Subject Property	Company / Name	Description	Source	PCA Resulted in APEC / No APEC Rationale
30	4 Campbell Reid Court	Subject property	N/A	Based on historical development of the subject property and activities at the subject property	Site Reconnaissance, Geotechnical Report "*Geotechnical Investigation Proposed Commercial Building 4 Campbell Reid Court Ottawa Ontario*"	Yes On the subject property
10, 58	15 Campbell Reid Court	145 m east	Gallagher's Garage Ltd.	Generator No. ON2046400 Listed as a garage (gen. repair) and listed as generator for waste oils & lubricants Approval year from 1995-2001	ERIS	No Based on distance from site and anticipated groundwater flow direction

Notes:
PCA Codes:
10. Commercial Autobody Shops
30. Importation of Fill Material of Unknown Quality
58. Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.

6.3 Areas of Potential Environmental Concern

The available information was reviewed in a comprehensive manner starting with historical environmental records and information, followed by the results of the site reconnaissance and the results of the interviews. These three components were evaluated using professional experience, judgment and available documentation to determine PCAs. Available historical records were cross-referenced with other records to verify their accuracy. The observations from the site reconnaissance and information provided through the interview validated the available historical records for the subject property, and vice versa. The PCAs were reviewed in order to identify APECs for the subject property.

One APEC was identified on the subject property, as summarized below in Table 6.2.

Table 6.2: EcoLog ERIS Report Summary

APEC #	Location with respect to the Subject Property	Type of PCA	Description	Media	Contaminants of Potential Concern (COPC)
1	Western portion of the subject property	PCA #30. Importation of Fill Material of Unknown Quality	Based on historical development of the subject property and activities at the subject property	Soil/Fill Groundwater	PAHs, M&I, PHC F1-F4, VOCs

Notes:
PAHs – Polycyclic Aromatic Hydrocarbons
M&I – Metals and Inorganics
PHCs F1-F4 – Petroleum Hydrocarbon Four Fractions
VOCs – Volatile Organic Compounds

6.3.1 APEC 1 – Historical Importation of Fill Material of Unknown Quality (On-site)

Through a review of aerial photographs, the subject property has had an on-site building (initial site development observed sometime after 1984) and therefore fill of unknown quality has likely been imported on-site in the past. Based on GEMTEC's geotechnical report titled *"Geotechnical Investigation Proposed Commercial Building 4 Campbell Reid Court Ottawa Ontario"* dated July 12, 2021, the site is covered with a superficial layer of fill material, which was encountered at all test pits locations advanced during the geotechnical investigation. The fill material was variable across the site but can generally be described as dark brown/grey gravelly sandy silt with organics, rootlets, roots, cobbles, boulders, and construction debris. In addition, as per testimonial evidence from Mr. Olender, the western portion of the subject property was used as a storage site for fill material. The associated contaminants of potential concern are PAHs, M&I, PHCs F1-F4, and VOCs in soil and groundwater. This APEC is present across the property. *PCA#30 - Importation of Fill Material of Unknown Quality.*

6.4 Phase One Conceptual Site Model

Based on the historical review, site interviews, and site reconnaissance, GEMTEC concludes that there is potential for soil and groundwater contamination at the subject property. Information presented in this report that contributes to the development of the CSM is presented as applicable in Figures A.1 through A.3 and summarized as follows:

- The subject property had two storey residential building which was constructed sometime between 1975 and 1984;
- A fire incident took place at the subject property sometime in 2018/2019. The old residential structure damaged by the fire was reportedly demolished and removed from the site and a new residential building was constructed on the subject property which was completed in 2021;
- The building on the subject property is fully serviced by a water well and a septic tank system on site;
- Surrounding properties are primarily residential properties interspersed with community land use (i.e., ROWs);
- A copy of the Ministry of Environment, Conservation and Parks (MECP) Well Records for the subject property is provided in Appendix H; 21 wells were identified within this search radius however only 20 wells records were available. The locations of the adjacent wells, based on the UTM coordinates provided in the water well records, have been plotted on Figure A.3, Appendix A.
- The MECP well records indicate that the soil stratigraphy in the area generally consists of sand / silty clay underlain by shallow / at surface bedrock (limestone/sandstone).
- No provincially significant wetlands (PSWs) were identified on the subject property or within the study area;
- No Areas of Natural of Scientific Interest (ANSIs) were identified on the subject property or within the study area;
- The subject property has a relatively flat topography and is at an elevation of approximately 94 metres above sea level. Surrounding topography is relatively flat but generally slopes east towards the Ottawa River, which is located approximately 5 km to the north / east of the subject property;
- Surficial soil and bedrock geology maps of the Ottawa area indicate that the subsurface conditions are primarily characterized by fill material underlain by shallow bedrock (sandstone/limestone).; and,
- Based on the review of records, the interview and the site reconnaissance completed as part of the Phase One ESA, GEMTEC identified two PCAs for the subject property and study area, which resulted in one APEC identified as being present on the subject property.

Information considered for the development of this CSM was gathered from numerous sources (i.e. aerial photographs, city directories, environmental database searches, physical setting sources, interview and a site reconnaissance), which reduces the potential for not identifying a former property use or PCA.

6.4.1 Underground Utilities

There is potential for underground utilities to affect contaminant transport for the subject property, if contaminants are present.

6.4.2 Discussion of Uncertainty

There is uncertainty with the Phase One Conceptual Site Model associated with using well record data, topographic and geology maps from external sources. Information based on these sources may have changed since publishing due to construction, seasonal variations, or other factors.

In addition, at the time of this reporting, it is uncertain whether or not the on-site fire incident which occurred in the past was suppressed using water or fire fighting foam (or a combination of both). If pending information indicates that the fire was suppressing using fire fighting foam, additional investigation of soil and groundwater quality on-site for contaminants of concern associated with these fire suppressing chemicals may be warranted.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on GEMTEC's review of available historical information pertaining to the subject property and adjacent properties, the interview completed and site reconnaissance undertaken, one APEC was identified to be present on the subject property.

GEMTEC concludes that there is a potential for soil and groundwater contamination at the subject property. As such, completion of a Phase Two ESA to investigate soil and groundwater quality on the subject property is recommended.

8.0 REFERENCES

ERIS Database Report, August 30, 2021. 65103.01 4 Campbell Reid Court Kanata ON K2K 1X7. Order No 21041400009.

ERIS Historical Aerials, September 27, 2021. 65103.01 4 Campbell Reid Court Kanata ON K2K 1X7. Order No 21041400009.

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Ministry of Natural Resources. 2014. Make a natural heritage area map. Accessed: September 2021.

City of Ottawa and Golder Associates. Old Landfill Management Strategy, Phase 1 – Identification of Sites, City of Ottawa, Ontario. 2004. Accessed: September 2021.

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Ontario Ministry of the Environment, Conservation and Parks (MECP). Map: Well Records. Updated January 2020. Accessed: September 2021.

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Ontario Ministry of the Environment (Waste Management Branch). January 1992. Ontario Inventory of PCB Storage Sites October 1991. Accessed: September 2021.

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Treasury Board of Canada - Secretariat. Mapping of Federally Contaminated Sites. Assessed: September 2021.

9.0 LIMITATIONS OF LIABILITY

This Phase One ESA was carried out in general accordance with CSA Group's "*Z768-01 Phase One Environmental Site Assessment*" and some requirements of O.Reg. 153/04. The results of this Phase One 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 Mr. Andrzej Olender and is based on data and information collected during the Phase One ESA of the property conducted by GEMTEC Consulting Engineers and Scientists Ltd. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC Consulting Engineers and Scientists Limited and Mr. Andrzej Olender. In evaluating this subject property, GEMTEC Consulting Engineers and Scientists Limited has relied in good faith on information provided by others. We accept no responsibility for any deficiencies or inaccuracies in this report as a result of omissions, misinterpretations, or fraudulent acts of others.

The assessment of environmental conditions and possible site hazards presented has been made using the available historical and technical data collected and provided by others. The conclusions provided herein represent the best judgment of GEMTEC Consulting Engineers and Scientists Limited based on current environmental standards. Due to the nature of the investigation and the limited data available, we cannot warrant against undiscovered environmental liabilities.

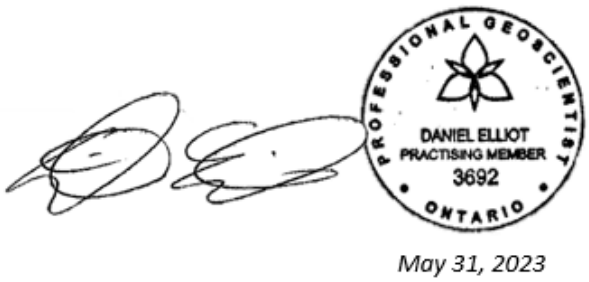
The scope of the Phase One ESA is sufficient to identify existing and/or potential environmental liabilities that are obvious from visual examination of surface features and from available sources of information. This level of work is a method of risk reduction, not risk elimination. No building materials, water, liquid, gas, products or chemical sampling and/or testing on or in the vicinity of the subject property was carried out as part of this assessment. The Phase One ESA does not include a program of intrusive observation/testing. These activities would be carried out as part of a Phase Two ESA. This environmental assessment included only a cursory overview of the neighbouring land uses from public right of ways and from the subject property and does not constitute a complete assessment of the adjacent sites.

10.0 CLOSURE

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

Sincerely,

Adrian Williams, B.Sc., GIT
Junior Environmental Scientist

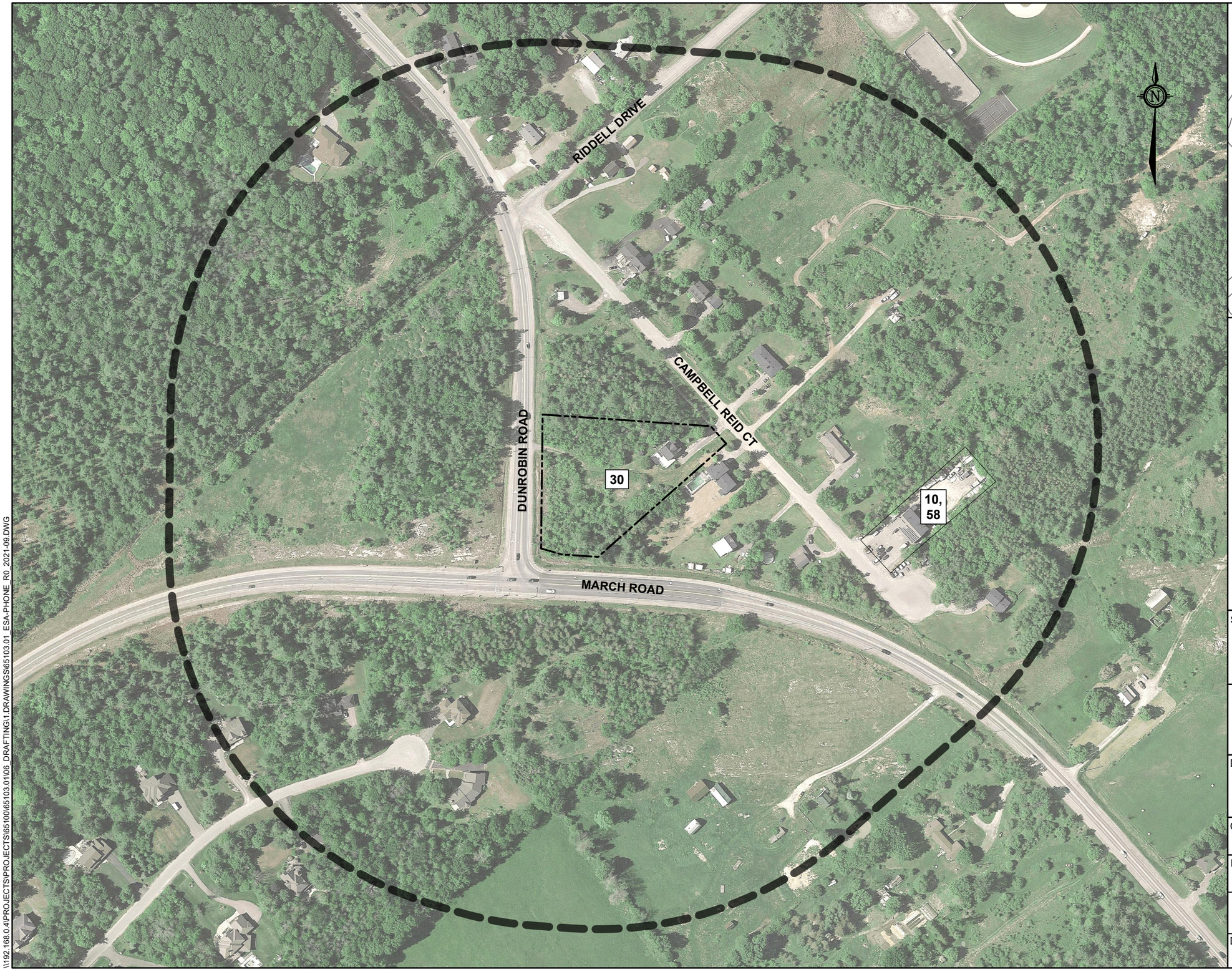


May 31, 2023

Daniel Elliot, B.Sc., P.Geo., QP_{ESA}
Senior Geoscientist

APPENDIX A

Figures



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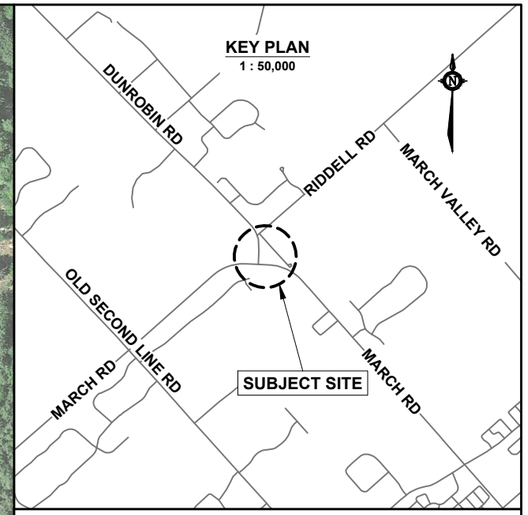

LEGEND

APPROXIMATE PROPERTY BOUNDARY

STUDY AREA
(250m RADIUS FROM THE PROPERTY BOUNDARY)

POTENTIALLY CONTAMINATING ACTIVITIES

10	COMMERCIAL AUTOBODY SHOPS
30	IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
58	WASTE DISPOSAL AND WASTE MANAGEMENT, INCLUDING THERMAL TREATMENT, LANDFILLING AND TRANSFER OF WASTE, OTHER THAN USE OF BIOSOILS AS SOIL CONDITIONERS

Scale
1:2500
0 50 100 150m

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

Drawing
STUDY AREA PLAN AND
POTENTIALLY CONTAMINATING ACTIVITIES

Client
MR. ANDRZEJ OLENDER

Project
65103.01

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
4 CAMPBELL REID COURT
KANATA, OTTAWA, ONTARIO

Drwn by: S.L.
Chkd by: M.B.

Date
SEPTEMBER, 2021

Rev.
0

FIGURE A.1

\\192.168.0.4\PROJECTS\PROJECTS\65100\65103.01\06_DRAFTING\1.DRAWINGS\65103.01_ESA-PHONE_R0_2021-09.DWG

LEGEND

APPROXIMATE PROPERTY BOUNDARY

STUDY AREA
(250m RADIUS FROM THE PROPERTY BOUNDARY)

AREA OF POTENTIALLY CONTAMINATING ACTIVITIES

APEC 1
IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY

Scale
1:2500
0 50 100 150m

GEMTEC
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Ottawa, ON K2K 2A9
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www.gemtec.ca
ottawa@gemtec.ca

Drawing
STUDY AREA PLAN AND
POTENTIALLY CONTAMINATING ACTIVITIES

Client
MR. ANDRZEJ OLENDER

Project		PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 4 CAMPBELL REID COURT KANATA, OTTAWA, ONTARIO
65103.01		
Drwn by	Chkd by	
S.L.	M.B.	
Date	Rev.	**FIGURE A.2**
SEPTEMBER, 2021	0	

N:\PROJECTS\65100\65103.01\06_DRAFTING\1_DRAWINGS\65103.01_ESA-PHONE_R0_2021-09.DWG

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- **STUDY AREA** (250m RADIUS FROM THE PROPERTY BOUNDARY)
- 100 — CONTOUR INTERVAL, IN METRES
- SURFACE WATER
- MECP WELL LOCATION

Scale 1:2500

0 50 100 150m

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON K2K 2A9
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www.gemtec.ca
ottawa@gemtec.ca

Drawing: TOPOGRAPHY MAP

Client: MR. ANDRZEJ OLENDER

Project: 65103.01

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
4 CAMPBELL REID COURT
KANATA, OTTAWA, ONTARIO

Drwn by	Chkd by
S.L.	M.B.

Date: SEPTEMBER, 2021

Rev.: 0

FIGURE A.3

N:\PROJECTS\65100\65103.01\06_DRAFTING\1.DRAWINGS\65103.01_ESA-PHONE_R0_2021-09.DWG

APPENDIX B

Qualification of Assessors

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive 613.836.1422
Ottawa, ON, Canada ottawa@gemtec.ca
K2K 2A9 www.gemtec.ca

QUALIFICATION OF ASSESSORS

Mohit Bhargav, MScE, EIT – Environmental Technician

The primary assessor for this Phase One Environmental Site Assessment (ESA) was Mr. Mohit Bhargav, an Environmental Technician with GEMTEC. Mohit has Master of Science Civil Engineering with a specialization in water/wastewater treatment. Mr. Bhargav's formal education and work experience in environmental consulting with GEMTEC for over eleven months has provided him with the knowledge and expertise to identify sources of environmental concern and evaluate their potential to cause adverse environmental impacts.

Su-Kim Roy, M.Eng., P.Eng. – Environmental Engineer

The Phase I ESA was carried out under the supervision of Ms. Su-Kim Roy, M.Eng., P.Eng., a registered Professional Engineer in the Province of Ontario and Qualified Person ESA (QP_{ESA}) under Ontario Regulation 153/04 and 4016/19. Ms. Roy has over 20 years of experience in the completion of Environmental Site Assessments to meet Phase I and II ESAs completed in accordance with the CSA Group Standards and Phase One and Two ESAs completed in accordance with O.Reg. 153/04, as well as Excess Soils Management Plans completed in accordance with O.Reg. 406/19.

Adrian Williams, B.Sc., G.I.T – Junior Environmental Scientist

The primary assessor for the revised Phase I Environmental Site Assessment (ESA) was Mr. Adrian Williams, B.Sc. in Environmental Geoscience, and registered geoscientist in training (G.I.T). Mr. Williams' formal education and experience working in environmental consulting has provided him with the knowledge and expertise to identify sources of environmental concern and evaluate their potential to cause adverse environmental impacts.

Daniel Elliot, BSc., P.Geo., QP_{ESA} – Senior Geoscientist

Mr. Elliot has 14 years of experience in the environmental sector in jurisdictions across Canada and the Unites States. He has gained extensive experience providing various environmental services including Phase One and Two Environmental Site Assessments, contaminant and hydrogeological site characterization, remedial planning, and implementation; risk assessment; filing of Records of Site Conditions; compliance and contract support; and waste and excess soil characterization/management.

APPENDIX C

Title Abstract

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LT 15 CON 3 MARCH PT 1, 5R13420 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
RE-ENTRY FROM 04532-0277

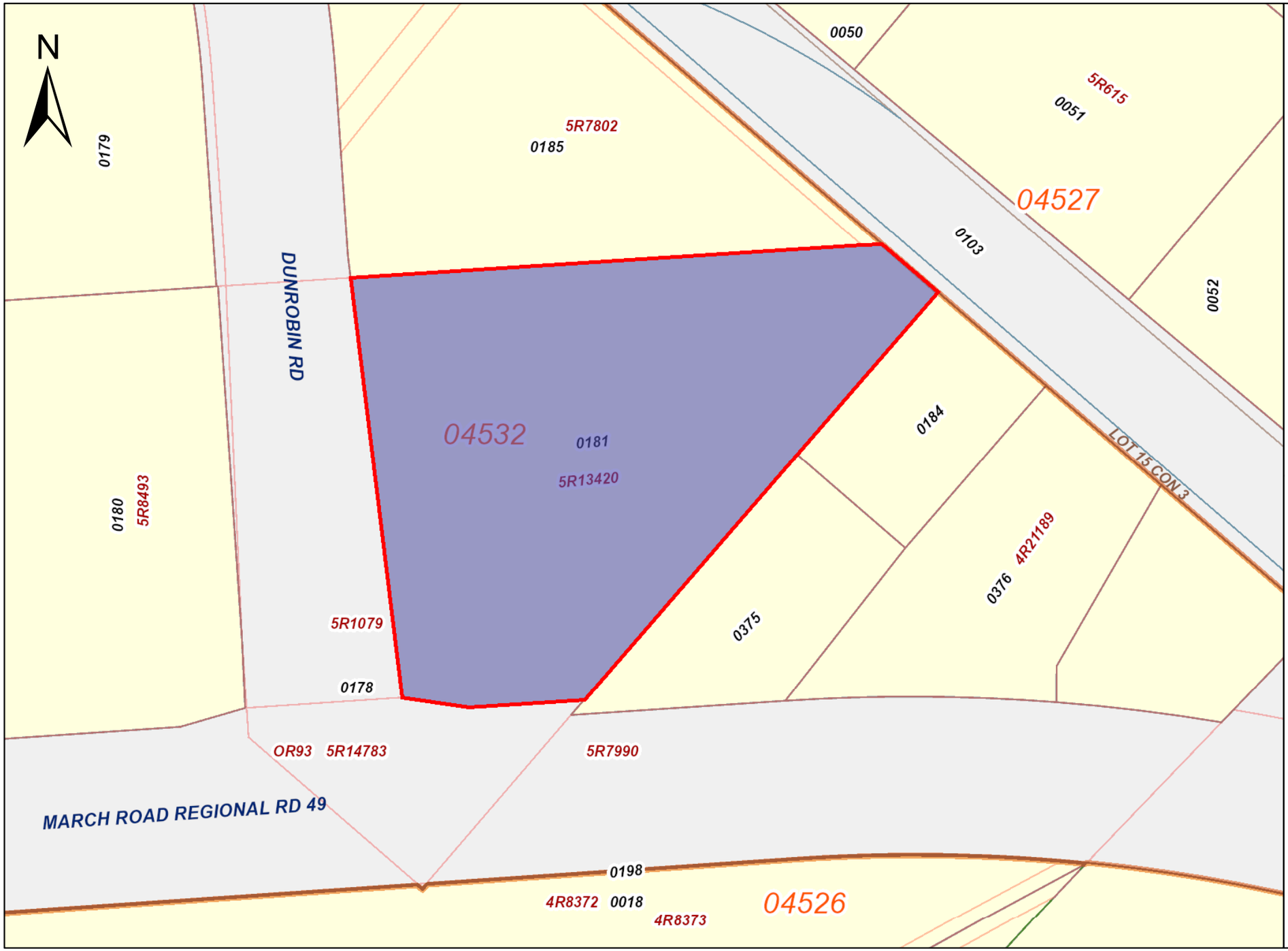
PIN CREATION DATE:
1999/09/17

OWNERS' NAMES
A & G OLENDER HOLDINGS LTD.

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1997/04/28 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1999/09/17						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) ***						
***SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:*						
*** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES **						
*** AND ESCHEATS OR FORFEITURE TO THE CROWN.*						
*** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF*						
*** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY*						
*** CONVENTION.*						
*** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.*						
***DATE OF CONVERSION TO LAND TITLES: 1999/09/20 ***						
5R13420	1990/02/12	PLAN REFERENCE				C
OC1027102	2009/09/09	CHARGE	$40,000	SIMPSON, GEOFFREY SIMPSON, PAMELA	THE BANK OF NOVA SCOTIA	C
OC1322915	2012/01/10	NOTICE		SIMPSON, GEOFFREY SIMPSON, PAMELA	MCQUEEN, KENNETH JOHN CAMPBELL MCQUEEEN, SANDRA ELIZABETH	C
OC2056701	2018/11/20	TRANSFER	$549,000	HARB, NADA HOUSSARI, ADEL	A & G OLENDER HOLDINGS LTD.	C
REMARKS: PLANNING ACT STATEMENTS.						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.



ServiceOntario

PRINTED ON 14 SEP, 2021 AT 11:42:27
FOR EEGOOLAB

SCALE

0 30 meters

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	*0449*
BLOCK NUMBER	**08050**
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

APPENDIX D

Ecolog ERIS

DATABASE REPORT

Project Property:	*65103.01* *4 Campbell Reid Court* *Kanata ON K2K 1X7*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*21041400009*
Requested by:	*GEMTEC Consulting Engineers and Scientists Limited (Ontario)*
Date Completed:	*August 30, 2021*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*65103.01* *4 Campbell Reid Court Kanata ON K2K 1X7*
Project No:	

Order Information:

Order No:	*21041400009*
Date Requested:	*April 14, 2021*
Requested by:	*GEMTEC Consulting Engineers and Scientists Limited (Ontario)*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search	*Current Land Title Search*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AST	*Aboveground Storage Tanks*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	6	6
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	2	2
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	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	23	24
	Total:		1	31	32

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 15 con 3 ON ***Well ID:*** 1503366	E/0.0	-0.64	17

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		lot 15 con 4 ON ***Well ID:*** 1513876	ENE/55.4	-2.39	19
3	WWIS		1 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON ***Well ID:*** 7265385	E/63.0	-1.69	22
4	WWIS		11 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON ***Well ID:*** 7265386	E/64.3	-1.69	30
5	WWIS		lot 15 con 3 ON ***Well ID:*** 1511038	ESE/67.2	-0.73	32
6	WWIS		lot 15 con 4 ON ***Well ID:*** 1503420	NNE/76.4	-1.64	35
7	WWIS		lot 16 con 3 ON ***Well ID:*** 1533821	W/79.4	1.46	37
8	WWIS		lot 15 con 3 ON ***Well ID:*** 1511125	SE/91.4	0.31	38
9	BORE		ON	WNW/95.0	1.33	41
10	WWIS		lot 15 con 4 ON ***Well ID:*** 1520303	NNE/98.3	-1.61	42
11	BORE		ON	SSW/105.3	1.31	46
12	WWIS		lot 15 con 3 ON ***Well ID:*** 1511129	SSW/105.5	1.31	46
13	BORE		ON	E/110.4	-1.69	49

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	WWIS		lot 15 con 4 ON ***Well ID:*** 1503418	E/130.1	-1.63	50
15	WWIS		lot 15 con 4 ON ***Well ID:*** 1520307	NNE/135.3	-2.61	53
16	GEN	GALLAGHER'S GARAGE LTD.	15 CAMPBELL REID CRT. KANATA ON K2K 1X7	E/142.9	-1.69	56
16	GEN	GALLAGHER'S GARAGE LTD.	15 CAMPBELL REID COURT KANATA ON K2K 1X7	E/142.9	-1.69	56
17	WWIS		lot 16 con 4 ON ***Well ID:*** 1503426	NNW/144.0	-1.69	56
18	BORE		ON	NNW/144.2	-1.69	59
19	WWIS		lot 16 con 3 ON ***Well ID:*** 1514694	SE/158.0	-0.69	60
20	WWIS		1535 MONAGHAN LANE lot 15 con 3 KAPATA ON ***Well ID:*** 7210759	SW/166.8	2.31	63
21	BORE		ON	NNE/178.6	-3.69	70
22	WWIS		lot 15 con 3 ON ***Well ID:*** 1513750	SSE/189.2	-0.69	71
23	WWIS		lot 16 con 4 ON ***Well ID:*** 1503424	NNW/204.0	-1.69	74
24	BORE		ON	WSW/209.3	3.31	77
25	WWIS		lot 15 con 4 ON	NNE/209.5	-3.69	78

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1503419			
25	WWIS		lot 16 con 4 ON ***Well ID:*** 1503423	NNE/209.5	-3.69	80
26	WWIS		lot 15 con 3 ON ***Well ID:*** 1503367	WSW/222.1	3.30	83
27	WWIS		1614 DUNROBIN RD KANATA ON ***Well ID:*** 1536614	NW/234.7	-0.69	85
28	WWIS		lot 15 con 3 ON ***Well ID:*** 1503364	SE/240.9	-0.64	86
29	WWIS		lot 16 con 4 ON ***Well ID:*** 1503427	NNE/247.0	-3.70	88
30	WWIS		MONAGHAN LANE lot 15 con 3 KANATA ON ***Well ID:*** 1536251	WSW/249.0	3.27	91

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 6 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	95.0	9
	ON	105.3	11
	ON	110.4	13
	ON	144.2	18
	ON	178.6	21
	ON	209.3	24

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 2 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
GALLAGHER'S GARAGE LTD.	15 CAMPBELL REID CRT. KANATA ON K2K 1X7	142.9	16
GALLAGHER'S GARAGE LTD.	15 CAMPBELL REID COURT KANATA ON K2K 1X7	142.9	16

Site	Address	Distance (m)	Map Key

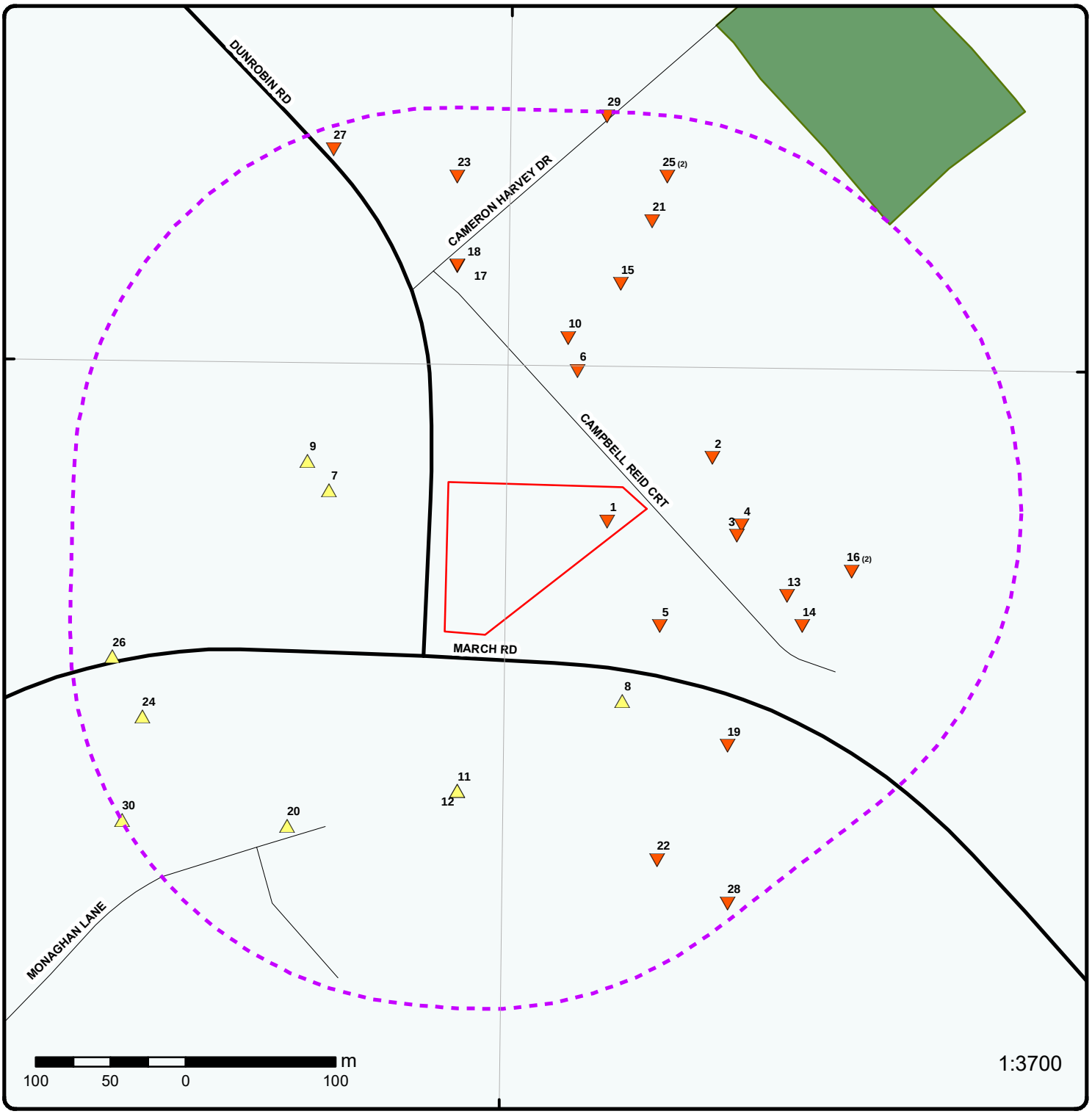
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 24 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 15 con 3 ON ***Well ID:*** 1503366	0.0	1
	lot 15 con 4 ON ***Well ID:*** 1513876	55.4	2
	1 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON ***Well ID:*** 7265385	63.0	3
	11 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON ***Well ID:*** 7265386	64.3	4
	lot 15 con 3 ON ***Well ID:*** 1511038	67.2	5
	lot 15 con 4 ON ***Well ID:*** 1503420	76.4	6
	lot 16 con 3 ON ***Well ID:*** 1533821	79.4	7
	lot 15 con 3 ON ***Well ID:*** 1511125	91.4	8
	lot 15 con 4 ON ***Well ID:*** 1520303	98.3	10

Site	Address	Distance (m)	Map Key
	lot 15 con 3 ON ***Well ID:*** 1511129	105.5	12
	lot 15 con 4 ON ***Well ID:*** 1503418	130.1	14
	lot 15 con 4 ON ***Well ID:*** 1520307	135.3	15
	lot 16 con 4 ON ***Well ID:*** 1503426	144.0	17
	lot 16 con 3 ON ***Well ID:*** 1514694	158.0	19
	1535 MONAGHAN LANE lot 15 con 3 KAPATA ON ***Well ID:*** 7210759	166.8	20
	lot 15 con 3 ON ***Well ID:*** 1513750	189.2	22
	lot 16 con 4 ON ***Well ID:*** 1503424	204.0	23
	lot 15 con 4 ON ***Well ID:*** 1503419	209.5	25
	lot 16 con 4 ON ***Well ID:*** 1503423	209.5	25
	lot 15 con 3 ON ***Well ID:*** 1503367	222.1	26
	1614 DUNROBIN RD KANATA ON	234.7	27

Site	Address	Distance (m)	Map Key
	Well ID: 1536614		
	lot 15 con 3 ON ***Well ID:*** 1503364	240.9	28
	lot 16 con 4 ON ***Well ID:*** 1503427	247.0	29
	MONAGHAN LANE lot 15 con 3 KANATA ON ***Well ID:*** 1536251	249.0	30



Map: 0.25 Kilometer Radius

Order Number: 21041400009

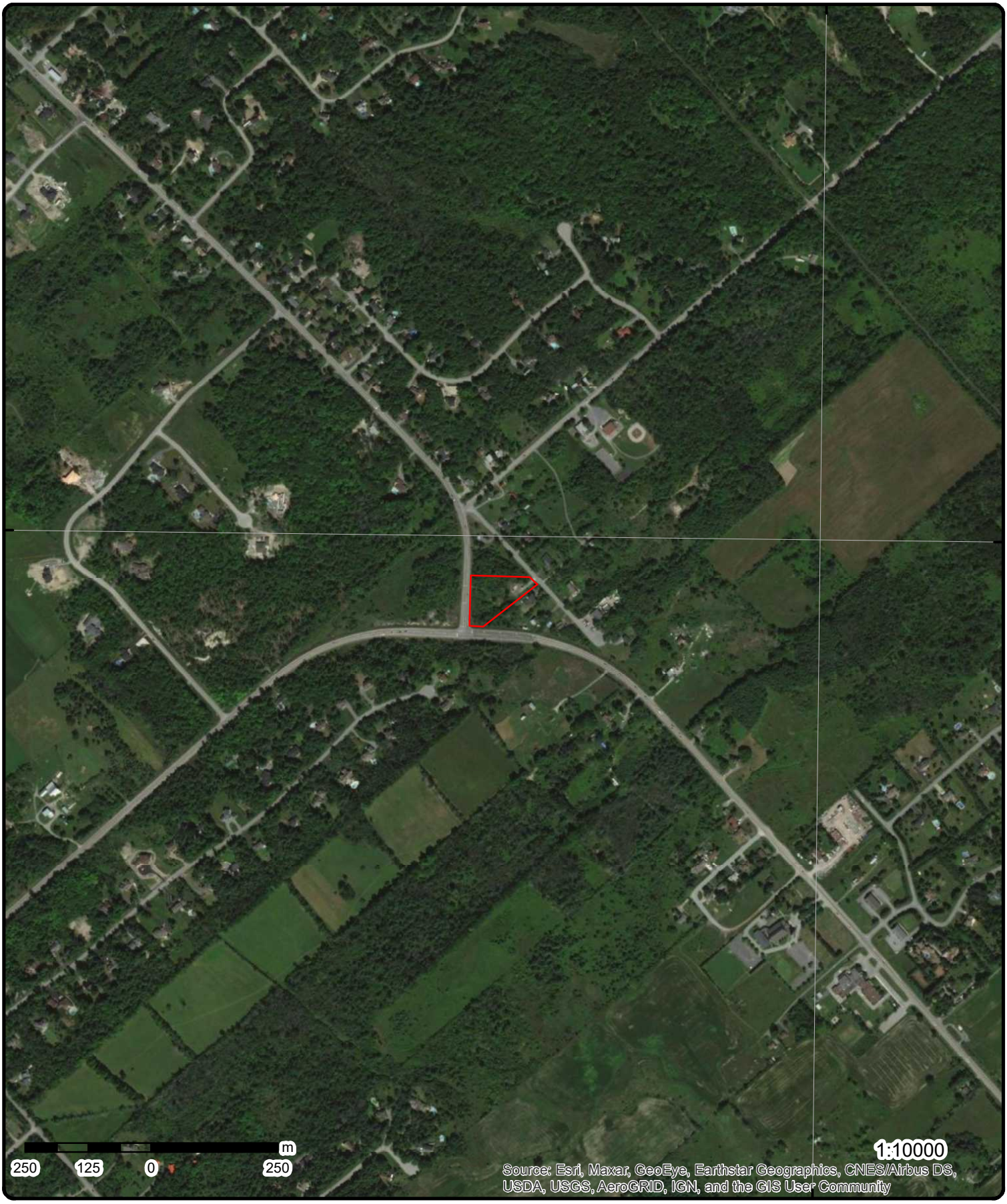
Address: 4 Campbell Reid Court, Kanata, ON

ERIS

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

75°57'W

45°22'30"N



45°22'30"N

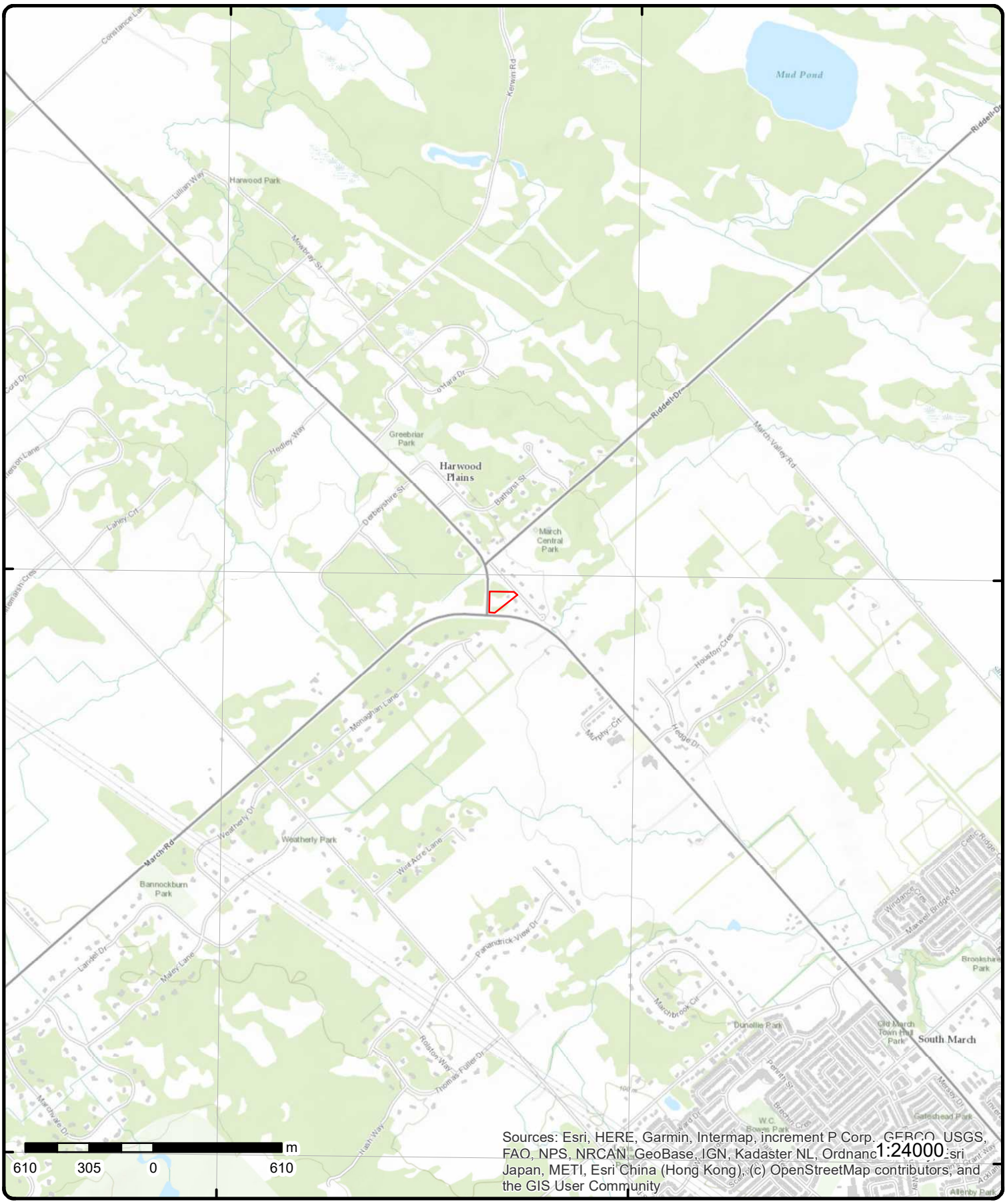
Aerial

Year: 2020

Order Number: 21041400009

Address: 4 Campbell Reid Court, Kanata, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 21041400009

Address: 4 Campbell Reid Court, ON

Source: ESRI World Topographic Map

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	E/0.0	92.9 / -0.64	lot 15 con 3 ON	WWIS

Well ID:	1503366	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/6/1960
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1603
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:**	015
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503366.pdf

Additional Detail(s) (Map)

Well Completed Date:	1960/09/17
Year Completed:	1960
Depth (m):	18.288
Latitude:	45.3740696842361
Longitude:	-75.9574546729663
Path:	150\1503366.pdf

Bore Hole Information

Bore Hole ID:	10025409	**Elevation:**	93.171264
DP2BR:	1.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425030.60
Code OB Desc:	Bedrock	**North83:**	5024952.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	17-Sep-1960 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:	930996672
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996671
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961503366
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10573979
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930043570
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	17
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043571
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	60
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503366
Pump Set At:	
Static Level:	9.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	30.0
Pumping Rate:	12.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456260
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

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2 ***1 of 1*** ***ENE/55.4*** ***91.2 / -2.39*** ***lot 15 con 4 ON*** ***WWIS***

Well ID:	1513876	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/8/1974
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3323
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:***	015
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/151\1513876.pdf

Additional Detail(s) (Map)

Well Completed Date: 1973/11/13
Year Completed: 1973
Depth (m): 25.6032
Latitude: 45.3744551774832
Longitude: -75.9565671824117
Path: 151\1513876.pdf

Bore Hole Information

Bore Hole ID: 10035858
DP2BR: 0.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 13-Nov-1973 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 92.647590
Elevrc:
Zone: 18
East83: 425100.60
North83: 5024994.00
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931024681
Layer: 1
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 84.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961513876
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10584428
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930063392
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	84
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930063391
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513876
Pump Set At:	
Static Level:	2.0
Final Level After Pumping:	
Recommended Pump Depth:	50.0
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934899186
Test Type:	Draw Down
Test Duration:	60
Test Level:	2.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099649
Test Type:	Draw Down
Test Duration:	15
Test Level:	2.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 934641298
Test Type: Draw Down
Test Duration: 45
Test Level: 2.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934380723
Test Type: Draw Down
Test Duration: 30
Test Level: 2.0
Test Level UOM: ft

Water Details

Water ID: 933469616
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 80.0
Water Found Depth UOM: ft

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3 | ***1 of 1*** | ***E/63.0*** | ***91.9 / -1.69*** | ***1 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON*** | ***WWIS***

Well ID: 7265385
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z202778
Tag: A199873
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 6/21/2016
Selected Flag: True
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
Street Name: 1 CAMPBELL REID COURT
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info: PART 1
Lot: 015
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7265385.pdf

Additional Detail(s) (Map)

Well Completed Date: 2016/04/26
Year Completed: 2016
Depth (m): 24.384
Latitude: 45.3739889271883
Longitude: -75.9563498725324
Path: 726\7265385.pdf

Bore Hole Information

Bore Hole ID: 1006069905
DP2BR:
Elevation: 92.138420
Elevrc:

Spatial Status:		***Zone:***	18
Code OB:		***East83:***	425117.00
Code OB Desc:		***North83:***	5024942.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	26-Apr-2016 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:	1006128057
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	48.0
Formation End Depth:	69.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006128058
Layer:	5
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	69.0
Formation End Depth:	72.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006128054
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:	4.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006128056
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 23.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006128059
Layer: 6
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 72.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006128055
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 23.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006128096
Layer: 1
Plug From: 20
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	1006128095
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1006128052
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Screen

Screen ID:	1006128067
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1006128053
Pump Set At:	70.0
Static Level:	0.800000011920929
Final Level After Pumping:	3.9000000953674316
Recommended Pump Depth:	70.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	20.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	1006128078
Test Type:	Draw Down
Test Duration:	10
Test Level:	3.4000000953674316
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006128091
Test Type:	Recovery
Test Duration:	50
Test Level:	0.800000011920929
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 1006128068
Test Type: Draw Down
Test Duration: 1
Test Level: 2.5999999046325684
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128075
Test Type: Recovery
Test Duration: 4
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128077
Test Type: Recovery
Test Duration: 5
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128082
Test Type: Draw Down
Test Duration: 20
Test Level: 3.5999999046325684
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128085
Test Type: Recovery
Test Duration: 25
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128080
Test Type: Draw Down
Test Duration: 15
Test Level: 3.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128088
Test Type: Draw Down
Test Duration: 40
Test Level: 3.799999952316284
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128081

Test Type: Recovery
Test Duration: 15
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128083
Test Type: Recovery
Test Duration: 20
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128087
Test Type: Recovery
Test Duration: 30
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128069
Test Type: Recovery
Test Duration: 1
Test Level: 1.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128076
Test Type: Draw Down
Test Duration: 5
Test Level: 3.299999952316284
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128084
Test Type: Draw Down
Test Duration: 25
Test Level: 3.5999999046325684
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128086
Test Type: Draw Down
Test Duration: 30
Test Level: 3.700000047683716
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128093
Test Type: Recovery
Test Duration: 60
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128070
Test Type: Draw Down
Test Duration: 2
Test Level: 2.9000000953674316
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128092
Test Type: Draw Down
Test Duration: 60
Test Level: 3.9000000953674316
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128090
Test Type: Draw Down
Test Duration: 50
Test Level: 3.9000000953674316
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128071
Test Type: Recovery
Test Duration: 2
Test Level: 1.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128073
Test Type: Recovery
Test Duration: 3
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128074
Test Type: Draw Down
Test Duration: 4
Test Level: 3.200000047683716
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128072
Test Type: Draw Down
Test Duration: 3
Test Level: 3.0999999046325684
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128079
Test Type: Recovery
Test Duration: 10
Test Level: 0.800000011920929
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006128089
Test Type: Recovery
Test Duration: 40
Test Level: 0.800000011920929
Test Level UOM: ft

Water Details

Water ID: 1006128062
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 48.0
Water Found Depth UOM: ft

Water Details

Water ID: 1006128063
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 69.0
Water Found Depth UOM: ft

Water Details

Water ID: 1006128064
Layer: 3
Kind Code: 8
Kind: Untested
Water Found Depth: 72.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006128060
Diameter:
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1006128061
Diameter:
Depth From: 20.0
Depth To: 80.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	E/64.3	91.9 / -1.69	11 CAMPBELL REID COURT lot 15 con 4 DUNROBIN ON	WWIS

Well ID: 7265386
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z202777
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 6/21/2016
Selected Flag: True
Abandonment Rec: Yes
Contractor: 1119
Form Version: 7
Owner:
Street Name: 11 CAMPBELL REID COURT
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info: PART 1
Lot: 015
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7265386.pdf

Additional Detail(s) (Map)

Well Completed Date: 2016/04/27
Year Completed: 2016
Depth (m):
Latitude: 45.3740522485138
Longitude: -75.9563126260499
Path: 726\7265386.pdf

Bore Hole Information

Bore Hole ID: 1006069908
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 27-Apr-2016 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 92.144142
Elevrc:
Zone: 18
East83: 425120.00
North83: 5024949.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006128113
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:

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

Annular Space/Abandonment Sealing Record

Plug ID: 1006128119
Layer: 1
Plug From: 0
Plug To: 84
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006128120
Layer: 1
Plug From: 84
Plug To: 5
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006128121
Layer: 2
Plug From: 5
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006128118
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006128112
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1006128117
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID:	1006128115
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006128114
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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5 | ***1 of 1*** | ***ESE/67.2*** | ***92.8 / -0.73*** | ***lot 15 con 3 ON*** | ***WWIS***

Well ID:	1511038	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	1/27/1971
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1703
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:***	015
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1511038.pdf

Additional Detail(s) (Map)

Well Completed Date:	1970/08/28
Year Completed:	1970
Depth (m):	26.8224
Latitude:	45.3734434246432
Longitude:	-75.9569971143904
Path:	151\1511038.pdf

Bore Hole Information

Bore Hole ID:	10033040	***Elevation:***	92.344223
DP2BR:	51.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	425065.60
Code OB Desc:	Bedrock	***North83:***	5024882.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4

Date Completed: 28-Aug-1970 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931016527
Layer: 1
Color:
General Color:
Mat1: 24
Most Common Material: PREV. DRILLED
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931016528
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3: 15
Mat3 Desc: LIMESTONE
Formation Top Depth: 51.0
Formation End Depth: 88.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961511038
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10581610
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058617
Layer: 2

Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 88
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930058616
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 51
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991511038
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 24.0
Recommended Pump Depth: 41.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 4.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934380596
Test Type: Draw Down
Test Duration: 30
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934097583
Test Type: Draw Down
Test Duration: 15
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934642312
Test Type: Draw Down
Test Duration: 45
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934899653
Test Type:	Draw Down
Test Duration:	60
Test Level:	24.0
Test Level UOM:	ft

Water Details

Water ID:	933466108
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	88.0
Water Found Depth UOM:	ft

6 ***1 of 1*** ***NNE/76.4*** ***91.9 / -1.64*** ***lot 15 con 4 ON*** ***WWIS***

Well ID:	1503420	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/18/1968
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:***	015
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):

Additional Detail(s) (Map)

Well Completed Date:	1968/05/20
Year Completed:	1968
Depth (m):	18.8976
Latitude:	45.3749675504377
Longitude:	-75.9577252553409
Path:	

Bore Hole Information

Bore Hole ID:	10025463	***Elevation:***	92.704750
DP2BR:	2.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	425010.60
Code OB Desc:	Bedrock	***North83:***	5025052.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5

Date Completed: 20-May-1968 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 930996789
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996790
Layer: 2
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503420
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574033
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043675
Layer: 1

Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043676
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	62
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503420
Pump Set At:	
Static Level:	17.0
Final Level After Pumping:	18.0
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:	933456326
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

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7 | ***1 of 1*** | ***W/79.4*** | ***95.0 / 1.46*** | ***lot 16 con 3 ON*** | ***WWIS***

Well ID:	1533821	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Not Used	**Date Received:**	6/4/2003
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	
Water Type:		**Contractor:**	4875
Casing Material:		**Form Version:**	1
Audit No:	241212	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP

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

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	016
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533821.pdf

Additional Detail(s) (Map)

Well Completed Date:	2003/04/02
Year Completed:	2003
Depth (m):	
Latitude:	45.3742387927422
Longitude:	-75.9598278847058
Path:	153\1533821.pdf

Bore Hole Information

Bore Hole ID:	10537655	**Elevation:**	94.328239
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	_	**East83:**	424845.00
Code OB Desc:	No formation data	**North83:**	5024973.00
Open Hole:		**Org CS:**	NA
Cluster Kind:		**UTMRC:**	6
Date Completed:	02-Apr-2003 00:00:00	**UTMRC Desc:**	margin of error : 300 m - 1 km
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961533821
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11086225
Casing No:	1
Comment:	
Alt Name:	

8	1 of 1	SE/91.4	93.9 / 0.31	lot 15 con 3 ON	WWIS

Well ID:	1511125	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	4/29/1971
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	

Water Type:		**Contractor:**	1802
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:**	015
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1511125.pdf

Additional Detail(s) (Map)

Well Completed Date:	1971/04/16
Year Completed:	1971
Depth (m):	24.384
Latitude:	45.3729907453746
Longitude:	-75.957308755054
Path:	151\1511125.pdf

Bore Hole Information

Bore Hole ID:	10033122	**Elevation:**	92.544494
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425040.60
Code OB Desc:	Bedrock	**North83:**	5024832.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	16-Apr-1971 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931016751
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	01
Mat2 Desc:	FILL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931016752
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	80.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961511125
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10581692
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930058773
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930058774
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	80
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991511125
Pump Set At:	
Static Level:	3.0
Final Level After Pumping:	56.0

Recommended Pump Depth:	30.0
Pumping Rate:	15.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934097663
Test Type:	Recovery
Test Duration:	15
Test Level:	3.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934899733
Test Type:	Recovery
Test Duration:	60
Test Level:	3.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934380676
Test Type:	Recovery
Test Duration:	30
Test Level:	3.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934642809
Test Type:	Recovery
Test Duration:	45
Test Level:	3.0
Test Level UOM:	ft

Water Details

Water ID:	933466205
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	WNW/95.0	94.9 / 1.33	ON	BORE

Borehole ID:	609869	***Inclin FLG:***	No
OGF ID:	215511483	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No

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

Use:		**Primary Name:**	
Completion Date:	AUG-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.37441
Total Depth m:	-999	**Longitude DD:**	-75.960015
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	424831
Drill Method:		**Northing:**	5024992
Orig Ground Elev m:	95.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	94		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384276	**Mat Consistency:**	Soft
Top Depth:	0	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: BEDROCK. OUTCROP AT SURFACE. NE. 00054NE. WHITE. SANDSTONE. BROWN. 00066SOFT. BEDRO
**Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

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

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 02377 NTS_Sheet:
Confiden 1: Gives some indication of sub-surface condition but material is unknown.

Source List

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

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 1	NNE/98.3	92.0 / -1.61	lot 15 con 4 ON	WWIS

Well ID:	1520303	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/27/1986
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3644
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	

Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	015
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/152\1520303.pdf

Additional Detail(s) (Map)

Well Completed Date:	1985/10/28
Year Completed:	1985
Depth (m):	25.6032
Latitude:	45.3751649095446
Longitude:	-75.9578052162034
Path:	152\1520303.pdf

Bore Hole Information

Bore Hole ID:	10042146	**Elevation:**	92.629943
DP2BR:	6.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425004.60
Code OB Desc:	Bedrock	**North83:**	5025074.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	28-Oct-1985 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931044337
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931044338
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	84.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961520303
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10590716
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930073553
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	84
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930073552
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991520303
Pump Set At:	
Static Level:	23.0
Final Level After Pumping:	60.0
Recommended Pump Depth:	60.0
Pumping Rate:	20.0
Flowing Rate:	

Recommended Pump Rate:	15.0
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

Draw Down & Recovery

Pump Test Detail ID:	934905486
Test Type:	
Test Duration:	60
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934656097
Test Type:	
Test Duration:	45
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934110822
Test Type:	
Test Duration:	15
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934377343
Test Type:	
Test Duration:	30
Test Level:	60.0
Test Level UOM:	ft

Water Details

Water ID:	933477507
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933477508
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	79.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	SSW/105.3	94.9 / 1.31	ON	BORE

Borehole ID:	609864	**Inclin FLG:**	No
OGF ID:	215511478	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	APR-1971	**Municipality:**	
Static Water Level:	76.2	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.372441
Total Depth m:	23.5	**Longitude DD:**	-75.958705
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	424931
Drill Method:		**Northing:**	5024772
Orig Ground Elev m:	93	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	95.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384265	**Mat Consistency:**	Soft
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	23.5	**Material Texture:**	
Material Color:	White	**Non Geo Mat Type:**	
Material 1:	Sandstone	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: SANDSTONE. LIMESTONE. WHITE. 0013900055FEET.SOFT. UNSPECIFIED,TILL. SOFT. BEDRO **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:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02372 NTS_Sheet:		
Confiden 1:			

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
12	1 of 1	SSW/105.5	94.9 / 1.31	lot 15 con 3 ON	WWIS

Well ID:	1511129	**Data Entry Status:**	
Construction Date:		**Data Src:**	1

Primary Water Use:	Livestock	***Date Received:***	5/6/1971
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
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:***	015
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1511129.pdf

Additional Detail(s) (Map)

Well Completed Date:	1971/04/28
Year Completed:	1971
Depth (m):	23.4696
Latitude:	45.372438958812
Longitude:	-75.9587042462529
Path:	151\1511129.pdf

Bore Hole Information

Bore Hole ID:	10033126	***Elevation:***	95.095619
DP2BR:	0.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	424930.60
Code OB Desc:	Bedrock	***North83:***	5024772.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	28-Apr-1971 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931016760
Layer:	1
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	77.0

Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961511129
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10581696
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058782
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 77
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930058781
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991511129
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 42.0
Recommended Pump Depth: 30.0
Pumping Rate: 13.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934097667
Test Type: Recovery
Test Duration: 15
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934642813
Test Type: Recovery
Test Duration: 45
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934380680
Test Type: Recovery
Test Duration: 30
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934899737
Test Type: Recovery
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 933466209
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

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13 ***1 of 1*** ***E/110.4*** ***91.9 / -1.69*** ***ON*** ***BORE***

Borehole ID: 609867
OGF ID: 215511481
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 91.4
Elev Reliabil Note:
DEM Ground Elev m: 91.3
Concession:
Location D:
Survey D:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.373634
Longitude DD: -75.955915
UTM Zone: 18
Easting: 425151
Northing: 5024902
Location Accuracy:
Accuracy: Not Applicable

Comments:

Borehole Geology Stratum

Geology Stratum ID:	218384271	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SILT,CLAY.		

Geology Stratum ID:	218384272	***Mat Consistency:***	Soft
Top Depth:	.6	***Material Moisture:***	
Bottom Depth:		***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Sandstone	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,SANDSTONE. Y. SANDSTONE. WHITE. SANDSTONE. BROWN. 00066SOFT. BEDROCK. 000250 **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: 023750 NTS_Sheet: 31G05D		
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		

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14 ***1 of 1*** ***E/130.1*** ***91.9 / -1.63*** ***lot 15 con 4 ON*** ***WWIS***

Well ID:	1503418	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/1/1962
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:**	015
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\1503418.pdf

Additional Detail(s) (Map)

Well Completed Date:	1962/05/21
Year Completed:	1962
Depth (m):	12.192
Latitude:	45.3734535829303
Longitude:	-75.9557840266835
Path:	150\1503418.pdf

Bore Hole Information

Bore Hole ID:	10025461	**Elevation:**	90.738708
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425160.60
Code OB Desc:	Bedrock	**North83:**	5024882.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	21-May-1962 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:	930996785
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	02
Mat2 Desc:	TOPSOIL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996786
Layer:	2
Color:	
General Color:	

Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503418
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574031
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043672
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043671
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 12
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503418
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 35.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1

Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456324
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

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15 | ***1 of 1*** | ***NNE/135.3*** | ***91.0 / -2.61*** | ***lot 15 con 4 ON*** | ***WWIS***

Well ID:	1520307	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/27/1986
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Recharge Well	**Abandonment Rec:**	
Water Type:		**Contractor:**	3644
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:**	015
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/152\1520307.pdf

Additional Detail(s) (Map)

Well Completed Date:	1985/10/28
Year Completed:	1985
Depth (m):	19.2024
Latitude:	45.3754926595208
Longitude:	-75.9573637432958
Path:	152\1520307.pdf

Bore Hole Information

Bore Hole ID:	10042150	**Elevation:**	91.538330
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425039.60
Code OB Desc:	Bedrock	**North83:**	5025110.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	28-Oct-1985 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 931044350
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931044351
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 63.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961520307
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10590720
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930073561
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:

Depth To: 63
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930073560
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520307
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 50.0
Pumping Rate: 14.0
Flowing Rate:
Recommended Pump Rate: 10.0
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

Draw Down & Recovery

Pump Test Detail ID: 934110826
Test Type:
Test Duration: 15
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905490
Test Type:
Test Duration: 60
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934377347
Test Type:
Test Duration: 30
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934656101
Test Type:
Test Duration: 45
Test Level: 50.0
Test Level UOM: ft

Water Details

Water ID: 933477512
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 58.0
Water Found Depth UOM: ft

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16 | ***1 of 2*** | ***E/142.9*** | ***91.9 / -1.69*** | ***GALLAGHER'S GARAGE LTD.***
15 CAMPBELL REID CRT.
KANATA ON K2K 1X7 | ***GEN***

Generator No: ON2046400
Status:
Approval Years: 95,96,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)

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

Detail(s)

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

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16 | ***2 of 2*** | ***E/142.9*** | ***91.9 / -1.69*** | ***GALLAGHER'S GARAGE LTD.***
15 CAMPBELL REID COURT
KANATA ON K2K 1X7 | ***GEN***

Generator No: ON2046400
Status:
Approval Years: 99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 6351
SIC Description: GARAGES(GEN. REPAIR)

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

Detail(s)

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

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17 | ***1 of 1*** | ***NNW/144.0*** | ***91.9 / -1.69*** | ***lot 16 con 4***
ON | ***WWIS***

Well ID: 1503426
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:

Data Entry Status:
Data Src: 1
Date Received: 9/6/1959
Selected Flag: True
Abandonment Rec:
Contractor: 3601
Form Version: 1
Owner:

Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	016
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\1503426.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/05/26
Year Completed:	1959
Depth (m):	21.336
Latitude:	45.3755889843228
Longitude:	-75.9587574763228
Path:	150\1503426.pdf

Bore Hole Information

Bore Hole ID:	10025469	**Elevation:**	94.141990
DP2BR:	1.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	424930.60
Code OB Desc:	Bedrock	**North83:**	5025122.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	26-May-1959 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:	930996800
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	70.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996799
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	02
Mat2 Desc:	TOPSOIL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961503426
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10574039
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930043688
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	70
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043687
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	10
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503426
Pump Set At:	
Static Level:	9.0
Final Level After Pumping:	9.0
Recommended Pump Depth:	9.0
Pumping Rate:	5.0
Flowing Rate:	

Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456334
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

18 ***1 of 1*** ***NNW/144.2*** ***91.9 / -1.69*** ***ON*** ***BORE***

Borehole ID:	609871	**Inclin FLG:**	No
OGF ID:	215511485	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	MAY-1959	**Municipality:**	
Static Water Level:	-1.5	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.375591
Total Depth m:	21.3	**Longitude DD:**	-75.958758
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	424931
Drill Method:		**Northing:**	5025122
Orig Ground Elev m:	91.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	94.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384281	**Mat Consistency:**	Soft
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	21.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Limestone	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE. STABLE AT 305.0 FEET.BEDROCK,LIMESTONE. BROWN. 00066SOFT. BEDROCK. 000250 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218384280	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Soil	**Geologic Group:**	

Material 3: ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: CLAY,SOIL.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 02379 NTS_Sheet:
Confiden 1:
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

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

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19 | ***1 of 1*** | ***SE/158.0*** | ***92.9 / -0.69*** | ***lot 16 con 3 ON*** | ***WWIS***

Well ID: 1514694
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src: 1
Date Received: 6/5/1975
Selected Flag: True
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 016
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514694.pdf

Additional Detail(s) (Map)

Well Completed Date: 1975/05/08
Year Completed: 1975
Depth (m): 22.2504
Latitude: 45.372728231634
Longitude: -75.9564103568656
Path: 151\1514694.pdf

Bore Hole Information

Bore Hole ID:	10036664	**Elevation:**	92.738265
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425110.60
Code OB Desc:	Bedrock	**North83:**	5024802.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	08-May-1975 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931027004
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027005
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027006
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	

Formation Top Depth:	30.0
Formation End Depth:	73.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514694
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10585234
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930064803
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	26
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930064804
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	73
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991514694
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	40.0
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:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934901987
Test Type:	Draw Down
Test Duration:	60
Test Level:	40.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934100513
Test Type:	Draw Down
Test Duration:	15
Test Level:	40.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934383529
Test Type:	Draw Down
Test Duration:	30
Test Level:	40.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934644099
Test Type:	Draw Down
Test Duration:	45
Test Level:	40.0
Test Level UOM:	ft

Water Details

Water ID:	933470625
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	68.0
Water Found Depth UOM:	ft

20 ***1 of 1*** ***SW/166.8*** ***95.9 / 2.31*** ***1535 MONAGHAN LANE lot 15 con 3 KAPATA ON*** ***WWIS***

Well ID:	7210759	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	11/12/2013
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z155220	***Owner:***	
Tag:	A135311	***Street Name:***	1535 MONAGHAN LANE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	015
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	

Flowing (Y/N): ***Zone:***
Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/721\7210759.pdf

Additional Detail(s) (Map)

Well Completed Date: 2013/08/29
Year Completed: 2013
Depth (m): 24.384
Latitude: 45.372219771604
Longitude: -75.9601513135529
Path: 721\7210759.pdf

Bore Hole Information

Bore Hole ID:	1004625896	***Elevation:***	93.725776
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	424817.00
Code OB Desc:		***North83:***	5024749.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	29-Aug-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: 1004876260
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 70.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004876258
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 01
Mat2 Desc: FILL
Mat3:

Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 7.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004876259
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 7.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004876295
Layer: 1
Plug From: 20
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004876294
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1004876256
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004876265
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 20
Depth To: 80
Casing Diameter: 6.125
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1004876264

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 20
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004876266
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1004876257
Pump Set At: 70.0
Static Level: 9.600000381469727
Final Level After Pumping: 10.0
Recommended Pump Depth: 70.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1004876276
Test Type: Recovery
Test Duration: 5
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876285
Test Type: Draw Down
Test Duration: 30
Test Level: 9.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876287
Test Type: Draw Down
Test Duration: 40
Test Level: 9.899999618530273

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876268
Test Type: Recovery
Test Duration: 1
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876281
Test Type: Draw Down
Test Duration: 20
Test Level: 9.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876282
Test Type: Recovery
Test Duration: 20
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876286
Test Type: Recovery
Test Duration: 30
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876288
Test Type: Recovery
Test Duration: 40
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876289
Test Type: Draw Down
Test Duration: 50
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876279
Test Type: Draw Down
Test Duration: 15
Test Level: 9.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876284
Test Type: Recovery
Test Duration: 25
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876290
Test Type: Recovery
Test Duration: 50
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876291
Test Type: Draw Down
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876269
Test Type: Draw Down
Test Duration: 2
Test Level: 9.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876270
Test Type: Recovery
Test Duration: 2
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876271
Test Type: Draw Down
Test Duration: 3
Test Level: 9.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876273
Test Type: Draw Down
Test Duration: 4
Test Level: 9.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876274
Test Type: Recovery
Test Duration: 4

Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876275
Test Type: Draw Down
Test Duration: 5
Test Level: 9.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876280
Test Type: Recovery
Test Duration: 15
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876283
Test Type: Draw Down
Test Duration: 25
Test Level: 9.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876292
Test Type: Recovery
Test Duration: 60
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876272
Test Type: Recovery
Test Duration: 3
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876277
Test Type: Draw Down
Test Duration: 10
Test Level: 9.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1004876278
Test Type: Recovery
Test Duration: 10
Test Level: 9.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1004876267
Test Type:	Draw Down
Test Duration:	1
Test Level:	9.699999809265137
Test Level UOM:	ft

Water Details

Water ID:	1004876263
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	70.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004876261
Diameter:	9.75
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1004876262
Diameter:	6.125
Depth From:	20.0
Depth To:	80.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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21 ***1 of 1*** ***NNE/178.6*** ***89.9 / -3.69*** ***ON*** ***BORE***

Borehole ID:	609873	***Inclin FLG:***	No
OGF ID:	215511487	***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:***	45.375874
Total Depth m:	-999	***Longitude DD:***	-75.957102
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	425061
Drill Method:		***Northing:***	5025152
Orig Ground Elev m:	88.4	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	89.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384286	***Mat Consistency:***	Soft

Top Depth:	.3	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**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. LIMESTONE. 00035BEDROCK,LIMESTONE. BROWN. 00066SOFT. BEDROCK. 0 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218384285	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 023810 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		

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22 | ***1 of 1*** | ***SSE/189.2*** | ***92.9 / -0.69*** | ***lot 15 con 3 ON*** | ***WWIS***

Well ID:	1513750	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	2/11/1974
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3658
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	015
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	

Flow Rate:
Clear/Cloudy:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513750.pdf

Additional Detail(s) (Map)

Well Completed Date: 1974/01/15
Year Completed: 1974
Depth (m): 38.1
Latitude: 45.3720391982555
Longitude: -75.9569989712815
Path: 151\1513750.pdf

Bore Hole Information

Bore Hole ID: 10035732
DP2BR: 4.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 15-Jan-1974 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 92.100685
Elevrc:
Zone: 18
East83: 425063.60
North83: 5024726.00
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931024385
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 02
Mat2 Desc: TOPSOIL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931024386
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

Formation Top Depth: 4.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961513750
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10584302
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930063192
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 18
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930063193
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 125
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991513750
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 110.0
Recommended Pump Depth: 110.0
Pumping Rate: 0.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID:	934640762
Test Type:	Draw Down
Test Duration:	45
Test Level:	110.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099529
Test Type:	Draw Down
Test Duration:	15
Test Level:	110.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934380186
Test Type:	Draw Down
Test Duration:	30
Test Level:	110.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934898654
Test Type:	Draw Down
Test Duration:	60
Test Level:	110.0
Test Level UOM:	ft

Water Details

Water ID:	933469442
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	125.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933469441
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

23 ***1 of 1*** ***NNW/204.0*** ***91.9 / -1.69*** ***lot 16 con 4 ON*** ***WWIS***

Well ID:	1503424	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	3/16/1959
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3601
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:**	016
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\1503424.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/03/01
Year Completed:	1959
Depth (m):	17.0688
Latitude:	45.3761289885159
Longitude:	-75.9587666023611
Path:	150\1503424.pdf

Bore Hole Information

Bore Hole ID:	10025467	**Elevation:**	93.642173
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	424930.60
Code OB Desc:	Bedrock	**North83:**	5025182.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	01-Mar-1959 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:	930996796
Layer:	1
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961503424
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574037
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043683
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 16
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043684
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503424
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 18.0
Recommended Pump Depth: 18.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456332
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 56.0
Water Found Depth UOM: ft

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24 **1 of 1** **WSW/209.3** **96.9 / 3.31** **ON** **BORE**

Borehole ID: 609865
OGF ID: 215511479
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level: 77.7
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 94.5
Elev Reliabil Note:
DEM Ground Elev m: 96.2
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.372868
Longitude DD: -75.961394
UTM Zone: 18
Easting: 424721
Northing: 5024822
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384266
Top Depth: 0
Bottom Depth:
Material Color: White
Material 1: Bedrock
Material 2: Limestone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE. WHITE. 0013900055FEET.SOFT. UNSPECIFIED,TILL. SOFT. BEDRO **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency: Soft
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: 023730 NTS_Sheet: 31G05D
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
25	1 of 2	NNE/209.5	89.9 / -3.69	lot 15 con 4 ON	WWIS

Well ID:	1503419	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	9/13/1962
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1301
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:**	015
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\1503419.pdf

Additional Detail(s) (Map)

Well Completed Date:	1962/08/10
Year Completed:	1962
Depth (m):	48.768
Latitude:	45.3761439825078
Longitude:	-75.9569788102417
Path:	150\1503419.pdf

Bore Hole Information

Bore Hole ID:	10025462	**Elevation:**	88.628616
DP2BR:	1.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425070.60
Code OB Desc:	Bedrock	**North83:**	5025182.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10-Aug-1962 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:	930996788
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 160.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996787
Layer: 1
Color:
General Color:
Mat1: 25
Most Common Material: OVERBURDEN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503419
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574032
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043673
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 9
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043674
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 160
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	991503419
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	15.0
Recommended Pump Depth:	20.0
Pumping Rate:	30.0
Flowing Rate:	
Recommended Pump Rate:	30.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456325
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	90.0
Water Found Depth UOM:	ft

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25 ***2 of 2*** ***NNE/209.5*** ***89.9 / -3.69*** ***lot 16 con 4 ON*** ***WWIS***

Well ID:	1503423	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	5/20/1958
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3701
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:***	016
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\1503423.pdf

Additional Detail(s) (Map)

Well Completed Date:	1958/04/02
Year Completed:	1958
Depth (m):	30.48
Latitude:	45.3761439825078
Longitude:	-75.9569788102417

Path: 150\1503423.pdf

Bore Hole Information

Bore Hole ID:	10025466	**Elevation:**	88.628616
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425070.60
Code OB Desc:	Bedrock	**North83:**	5025182.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	02-Apr-1958 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:	930996794
Layer:	1
Color:	
General Color:	
Mat1:	06
Most Common Material:	SILT
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996795
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	100.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961503423
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID: 10574036
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043681
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 14
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043682
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 100
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503423
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 35.0
Recommended Pump Depth:
Pumping Rate: 6.0
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: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456330
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 50.0
Water Found Depth UOM: ft

Water Details

Water ID: 933456331

Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	100.0
Water Found Depth UOM:	ft

26 **1 of 1** **WSW/222.1** **96.9 / 3.30** **lot 15 con 3 ON** **WWIS**

Well ID:	1503367	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/21/1964
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
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:**	015
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503367.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/08/21
Year Completed:	1964
Depth (m):	19.812
Latitude:	45.3732242742832
Longitude:	-75.961654868103
Path:	150\1503367.pdf

Bore Hole Information

Bore Hole ID:	10025410	**Elevation:**	97.100563
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	424700.60
Code OB Desc:	Bedrock	**North83:**	5024862.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	21-Aug-1964 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: 930996673
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: 65.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503367
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573980
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043572
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043573
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503367
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 16.0
Recommended Pump Depth: 60.0
Pumping Rate: 3.0
Flowing Rate:

Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456261
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	63.0
Water Found Depth UOM:	ft

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27 | ***1 of 1*** | ***NW/234.7*** | ***92.9 / -0.69*** | ***1614 DUNROBIN RD KANATA ON*** | ***WWIS***

Well ID:	1536614	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	8/25/2006
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:		**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	6907
Casing Material:		**Form Version:**	3
Audit No:	Z17670	**Owner:**	
Tag:	A017499	**Street Name:**	1614 DUNROBIN RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	TORBOLTON TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536614.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/05/25
Year Completed:	2006
Depth (m):	
Latitude:	45.3762821301353
Longitude:	-75.9598241399242
Path:	153\1536614.pdf

Bore Hole Information

Bore Hole ID:	11550680	**Elevation:**	96.196693
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	_	**East83:**	424848.00
Code OB Desc:	No formation data	**North83:**	5025200.00
Open Hole:		**Org CS:**	UTM83

Cluster Kind:		**UTMRC:**	3
Date Completed:	25-May-2006 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:			

Method of Construction & Well Use

Method Construction ID:	961536614
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11560287
Casing No:	1
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID:	11569615
Pump Set At:	47.0
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

---

28 | ***1 of 1*** | ***SE/240.9*** | ***92.9 / -0.64*** | ***lot 15 con 3 ON*** | ***WWIS***

Well ID:	1503364	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Livestock	**Date Received:**	11/29/1949
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4216
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:**	015
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON

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

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503364.pdf

Additional Detail(s) (Map)

Well Completed Date: 1949/09/15
Year Completed: 1949
Depth (m): 16.4592
Latitude: 45.3717832230457
Longitude: -75.9563944276012
Path: 150\1503364.pdf

Bore Hole Information

Bore Hole ID: 10025407
DP2BR: 0.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 15-Sep-1949 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 91.646545
Elevrc:
Zone: 18
East83: 425110.60
North83: 5024697.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 930996668
Layer: 1
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 54.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503364
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID:	10573977
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930043566
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	9
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043567
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	54
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503364
Pump Set At:	
Static Level:	17.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933456258
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	52.0
Water Found Depth UOM:	ft

29	***1 of 1***	***NNE/247.0***	***89.9 / -3.70***	***lot 16 con 4 ON***	***WWIS***

Well ID:	1503427	**Data Entry Status:**	
Construction Date:		**Data Src:**	1

Primary Water Use:	Domestic	**Date Received:**	6/1/1962
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4825
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:**	016
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\1503427.pdf

Additional Detail(s) (Map)

Well Completed Date:	1962/03/21
Year Completed:	1962
Depth (m):	19.2024
Latitude:	45.376499704265
Longitude:	-75.9574956842023
Path:	150\1503427.pdf

Bore Hole Information

Bore Hole ID:	10025470	**Elevation:**	89.516860
DP2BR:	8.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	425030.60
Code OB Desc:	Bedrock	**North83:**	5025222.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	21-Mar-1962 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:	930996802
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	63.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996801
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503427
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574040
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043690
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 63
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043689
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 14
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503427

Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	14.0
Recommended Pump Depth:	35.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	4.0
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:	933456335
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

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30 ***1 of 1*** ***WSW/249.0*** ***96.8 / 3.27*** ***MONAGHAN LANE lot 15 con 3 KANATA ON*** ***WWIS***

Well ID:	1536251	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	3/20/2006
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	3
Audit No:	Z39241	***Owner:***	
Tag:	A035433	***Street Name:***	MONAGHAN LANE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	015
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536251.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/01/03
Year Completed:	2006
Depth (m):	22.85
Latitude:	45.3722439550147
Longitude:	-75.9615565191263
Path:	153\1536251.pdf

Bore Hole Information

Bore Hole ID:	11550317	**Elevation:**	95.769897
DP2BR:	4.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	424707.00
Code OB Desc:	Bedrock	**North83:**	5024753.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	03-Jan-2006 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:	933040604
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.2100000381469727
Formation End Depth:	22.850000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933040603
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.2100000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933287037
Layer:	1
Plug From:	6.40000009536743
Plug To:	0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 933287038
Layer: 2
Plug From:
Plug To:
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536251
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11559924
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930874604
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 6.40000009536743
Depth To: 22.8500003814697
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930874603
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.449999988079071
Depth To: 6.40000009536743
Casing Diameter: 15.8599996566772
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11569382
Pump Set At: 15.229999542236328
Static Level: 5.239999771118164
Final Level After Pumping: 5.590000152587891
Recommended Pump Depth: 45.5
Pumping Rate: 54.599998474121094
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR: 1
Pumping Duration MIN: 0

Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11577335
Test Type: Recovery
Test Duration: 5
Test Level: 5.309999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577339
Test Type: Recovery
Test Duration: 15
Test Level: 5.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577347
Test Type: Recovery
Test Duration: 40
Test Level: 5.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11584728
Test Type: Recovery
Test Duration: 60
Test Level: 5.289999961853027
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577332
Test Type: Draw Down
Test Duration: 4
Test Level: 5.489999771118164
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577333
Test Type: Recovery
Test Duration: 4
Test Level: 5.320000171661377
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577334
Test Type: Draw Down
Test Duration: 5
Test Level: 5.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577337
Test Type: Recovery
Test Duration: 10
Test Level: 5.309999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11584725
Test Type: Draw Down
Test Duration: 50
Test Level: 5.590000152587891
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577331
Test Type: Recovery
Test Duration: 3
Test Level: 5.329999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577328
Test Type: Draw Down
Test Duration: 2
Test Level: 5.480000019073486
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577330
Test Type: Draw Down
Test Duration: 3
Test Level: 5.480000019073486
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577341
Test Type: Recovery
Test Duration: 20
Test Level: 5.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577344
Test Type: Draw Down
Test Duration: 30
Test Level: 5.559999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577345
Test Type: Recovery
Test Duration: 30

Test Level: 5.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577326
Test Type: Draw Down
Test Duration: 1
Test Level: 5.429999828338623
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577340
Test Type: Draw Down
Test Duration: 20
Test Level: 5.550000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577343
Test Type: Recovery
Test Duration: 25
Test Level: 5.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577346
Test Type: Draw Down
Test Duration: 40
Test Level: 5.590000152587891
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11584727
Test Type: Draw Down
Test Duration: 60
Test Level: 5.590000152587891
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577327
Test Type: Recovery
Test Duration: 1
Test Level: 5.389999866485596
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577329
Test Type: Recovery
Test Duration: 2
Test Level: 5.340000152587891
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577336
Test Type: Draw Down
Test Duration: 10
Test Level: 5.53000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577338
Test Type: Draw Down
Test Duration: 15
Test Level: 5.550000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11577342
Test Type: Draw Down
Test Duration: 25
Test Level: 5.550000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11584726
Test Type: Recovery
Test Duration: 50
Test Level: 5.300000190734863
Test Level UOM: m

Hole Diameter

Hole ID: 11680991
Diameter: 15.229999542236328
Depth From: 6.400000095367432
Depth To: 22.850000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11680990
Diameter: 22.75
Depth From: 0.0
Depth To: 6.400000095367432
Hole Depth UOM: m
Hole Diameter UOM: cm

Unplottable Summary

Total: 24 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 15 Con 3	Kanata ON	
CA	Art Fleming & Sons Enterprises Ltd / Entreprises Art Fleming & Fils Ltee	48 Pembroke Rd Lot 16	Ottawa ON	
CA	South Ottawa Collector	Lot 15, 16, 17, 18, 19, 20, 21, 22, Conc. 1, 2, 3	Ottawa ON	
CA	Bank Street & Conroy Road	Lot 15 to 18, Concession 4&5	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	GALLAGHER'S GARAGE LIMITED	R.R. #1, PT.LOT 15, CONC. 4	KANATA CITY ON	
EBR	J.K. Pederson Landscaping Ltd. (614791 Ontario Ltd.)	Part Lot 16, Concession 3 CITY OF OTTAWA OSGOODE	ON	
ECA	City of Ottawa	Lot 15, 16, 17, 18, 19, 20, 21, 22, Conc. 1, 2, 3	Ottawa ON	K1P 1J1
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3 OTTAWA ON CA LOT 13 14 & 15 CON 3 OTTAWA ON CA	ON	
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3 OTTAWA ON CA LOT 13 14 & 15 CON 3 OTTAWA ON CA	ON	
GEN	City of Ottawa	1040 Riddell Drive	Kanata ON	K2K 1X7
GEN	OTTAWA, CITY OF, EMS	1040 Riddell Dr.	Kanata ON	K2K 1X7
GEN	City of Ottawa	1040 Riddell Drive	Kanata ON	K2K 1X7
GEN	OTTAWA, CITY OF, EMS	1040 Riddell Dr.	Kanata ON	K2K 1X7
GEN	OTTAWA, CITY OF, EMS	1040 Riddell Dr.	Kanata ON	K2K 1X7
GEN	City of Ottawa	1040 Riddell Drive	Kanata ON	K2K 1X7
GEN	City of Ottawa PBG OM	1040 Riddell Drive	Kanata ON	K2K 1X7

GEN	OTTAWA, CITY OF, EMS	1040 Riddell Dr.	Kanata ON	K2K 1X7
LIMO	Gloucester Landfill The Corporation of the Township of Gloucester City of	Ottawa Lot 16, Concession 3 Ottawa	ON	
LIMO		Lot 15 Concession 3 Ottawa	ON	
SPL	OTTAWA-CARLETON TRANSIT	MARCH ROAD, SOUTH OF CARLING	OTTAWA CITY ON	
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON	
WWIS		6742 CHRIS TIERNEY PRIVATE lot 15 con 4	GREELY ON	
WWIS		1651 DUNROBIN RD lot 16 con 3	KANATA ON	

Unplottable Report

Site: ***Database:***
Lot 15 Con 3 Kanata ON ***AAGR***

Type:
Region/County: Ottawa-Carleton
Township: Kanata
Concession: 3
Lot: 15
Size (ha):
Landuse:
Comments:

Site: ***Art Fleming & Sons Enterprises Ltd / Entreprises Art Fleming & Fils Ltee*** ***Database:***
48 Pembroke Rd Lot 16 Ottawa ON ***CA***

Certificate #: 9120-7NYJH7
Application Year: 2009
Issue Date: 2/20/2009
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***South Ottawa Collector*** ***Database:***
Lot 15, 16, 17, 18, 19, 20, 21, 22, Conc. 1, 2, 3 Ottawa ON ***CA***

Certificate #: 5781-5D7RDZ
Application Year: 02
Issue Date: 9/13/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name: City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: City of Ottawa
Client Postal Code: K1P 1J1
Project Description: Enhanced flow control and flooding protection for the Green Creek Collector and provide further reduction in the potential to divert sediments to the South Ottawa Tunnel (SOT) by reducing the accumulation of grit within the upstream Green Creek Collector and Walkley Chamber.
Contaminants:
Emission Control:

Site: ***Bank Street & Conroy Road*** ***Database:***
Lot 15 to 18, Concession 4&5 Ottawa ON ***CA***

Certificate #: 1151-52XLM4
Application Year: 01
Issue Date: 9/27/01
Approval Type: Municipal & Private sewage

Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: Ottawa
Client Postal Code: K1P 1J1
Project Description: Construction of Sanitary Gravity Sewers
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database: ***CA***

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GALLAGHER'S GARAGE LIMITED***
R.R. #1, PT.LOT 15, CONC. 4 KANATA CITY ON

Database: ***CA***

Certificate #: 8-4126-94-
Application Year: 94
Issue Date: 9/23/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: WASTE OIL FURNACE MODEL REZNOR RAD 140-C
Contaminants: Suspended Particulate Matter, Nitrogen Oxides, Sulphur Dioxide
Emission Control: No Controls

Site: ***J.K. Pederson Landscaping Ltd. (614791 Ontario Ltd.)***
Part Lot 16, Concession 3 CITY OF OTTAWA OSGOODE ON

Database: ***EBR***

EBR Registry No: 012-1814
Ministry Ref No: MNR 24/14
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 13, 2016
Proposal Date: May 20, 2014
Year: 2014
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (ARA s. 16 (2)) - Approval of licensee proposed amendment to a site plan
Off Instrument Name:
Posted By:
Company Name: J.K. Pederson Landscaping Ltd. (614791 Ontario Ltd.)
Site Address:
Location Other:
Proponent Name:
Proponent Address: 2408 Manotick Station Road, Osgoode Ontario, Canada K0A 2W0
Comment Period:
URL:

Site Location Details:

Part Lot 16, Concession 3 CITY OF OTTAWA OSGOODE

Site: ***City of Ottawa*** ***Database:*** ***ECA***
Lot 15, 16, 17, 18, 19, 20, 21, 22, Conc. 1, 2, 3 Ottawa ON K1P 1J1

Approval No:	5781-5D7RDZ	***MOE District:***	
Approval Date:	2002-09-13	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Lot 15, 16, 17, 18, 19, 20, 21, 22, Conc. 1, 2, 3
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6977-5ATUWY-14.pdf

---

Site: ***HYLANDS GOLF CLUB*** ***Database:*** ***FST***
LOT 13 14 & 15 CON 3 OTTAWA ON CA LOT 13 14 & 15 CON 3 OTTAWA ON CA ON

Instance No:	10904209	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	2/8/1991	***Fuel Type3:***	NULL
Install Year:	1990	***Piping Steel:***	
Years in Service:	20.2	***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	4540	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	NULL
Corrosion Protect:	Impressed Current	***Panam Venue:***	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location: LOT 13 14 & 15 CON 3 OTTAWA ON CA
Device Installed Location: LOT 13 14 & 15 CON 3 OTTAWA ON CA

Fuel Storage Tank Details

Owner Account Name: HYLANDS GOLF CLUB

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: HYLANDS GOLF CLUB

Site: ***HYLANDS GOLF CLUB*** ***Database:*** ***FST***
LOT 13 14 & 15 CON 3 OTTAWA ON CA LOT 13 14 & 15 CON 3 OTTAWA ON CA ON

Instance No:	10904186	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA

Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	2/8/1991	***Fuel Type3:***	NULL
Install Year:	1990	***Piping Steel:***	
Years in Service:	20.2	***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	10000	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	NULL
Corrosion Protect:	Impressed Current	***Panam Venue:***	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location: LOT 13 14 & 15 CON 3 OTTAWA ON CA
Device Installed Location: LOT 13 14 & 15 CON 3 OTTAWA ON CA

Fuel Storage Tank Details

Owner Account Name: HYLANDS GOLF CLUB

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: HYLANDS GOLF CLUB

Site: ***City of Ottawa***
1040 Riddell Drive Kanata ON K2K 1X7

Database: ***GEN***

Generator No:	ON8999386	***PO Box No:***	
Status:		***Country:***	Canada
Approval Years:	2016	***Choice of Contact:***	CO_OFFICIAL
Contam. Facility:	No	***Co Admin:***	
MHSW Facility:	No	***Phone No Admin:***	
SIC Code:	913140		

SIC Description: 913140

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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

Site: ***OTTAWA, CITY OF, EMS***
1040 Riddell Dr. Kanata ON K2K 1X7

Database: ***GEN***

Generator No:	ON0136237	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Jun 2018	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Site: ***City of Ottawa***
1040 Riddell Drive Kanata ON K2K 1X7

Database: ***GEN***

Generator No:	ON8999386	***PO Box No:***	

Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 913140
SIC Description: 913140

Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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

Site: ***OTTAWA, CITY OF, EMS***
1040 Riddell Dr. Kanata ON K2K 1X7

Database: ***GEN***

Generator No: ON0136237
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 621911
SIC Description: 621911

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Karen Mcpeak
Phone No Admin: 613-580-2424 Ext.28982

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Site: ***OTTAWA, CITY OF, EMS***
1040 Riddell Dr. Kanata ON K2K 1X7

Database: ***GEN***

Generator No: ON0136237
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 621911
SIC Description: 621911

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Line Larabie
Phone No Admin: 613-580-2424 Ext.22389

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Site: ***City of Ottawa***
1040 Riddell Drive Kanata ON K2K 1X7

Database: ***GEN***

Generator No: ON8999386
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 913140
SIC Description: 913140

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

Detail(s)

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

Site: ***City of Ottawa PBG OM***
1040 Riddell Drive Kanata ON K2K 1X7

Database: ***GEN***

Generator No:	ON8999386	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Dec 2018	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	312 P
Waste Class Desc:	Pathological wastes

Site: ***OTTAWA, CITY OF, EMS***
1040 Riddell Dr. Kanata ON K2K 1X7

Database: ***GEN***

Generator No:	ON0136237	***PO Box No:***	
Status:		***Country:***	Canada
Approval Years:	2015	***Choice of Contact:***	CO_ADMIN
Contam. Facility:	No	***Co Admin:***	Line Larabie
MHSW Facility:	No	***Phone No Admin:***	613-580-2424 Ext.22389
SIC Code:	621911		
SIC Description:	621911		

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Site: ***Gloucester Landfill The Corporation of the Township of Gloucester City of Ottawa Lot 16, Concession 3 Ottawa ON***

Database: ***LIMO***

ECA/Instrument No:	A460701	***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: Gloucester Landfill
The Corporation of the Township of Gloucester
City of Ottawa

Site Location Details:
Service Area:
Page URL:

Site: ***Database:*** ***LIMO***
Lot 15 Concession 3 Ottawa ON

ECA/Instrument No:	X9005	***Natural Attenuation:***	
Oper Status 2016:	Historic	***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:	Historic and Closed Landfills	***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:			

Site Location Details: Lot 15 Concession 3
Ottawa

Service Area:
Page URL:

Site: ***OTTAWA-CARLETON TRANSIT*** ***Database:*** ***SPL***
MARCH ROAD, SOUTH OF CARLING OTTAWA CITY ON

Ref No:	222088	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/25/2002	***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:***	20107
Nature of Impact:	Water course or lake	***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:	2/25/2002	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	

Incident Reason:	MATERIAL FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	OC TRANSIT: 2L OF ANTIFREEZE IN THE SEWER, CLEANING		
Contaminant Qty:			

Site: ***ONTARIO HYDRO***
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database: ***SPL***

Ref No:	128700	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/26/1996	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	COOLING SYSTEM 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:	CONFIRMED	***Site Municipality:***	20103
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	EPS
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/3/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	OTHER	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.		
Contaminant Qty:			

Site:
6742 CHRIS TIERNEY PRIVATE lot 15 con 4 GREELY ON

Database: ***WWIS***

Well ID:	7144018	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	4/30/2010
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	6964
Casing Material:		***Form Version:***	7
Audit No:	Z106990	***Owner:***	
Tag:	A081800	***Street Name:***	6742 CHRIS TIERNEY PRIVATE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	015
Well Depth:		***Concession:***	04
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002966443	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	

Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 25-Mar-2010 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1003141782
Layer: 1
Plug From: 0
Plug To: 0.300000011920929
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1003141783
Layer: 2
Plug From: 0.300000011920929
Plug To: 3.66000008583069
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1003141787
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1003141779
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003141785
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1003141786
Layer:
Slot:
Screen Top Depth:

Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1003141784
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1003141781
Diameter: 8.25
Depth From: 0.0
Depth To: 3.6600000858306885
Hole Depth UOM: ft
Hole Diameter UOM: inch

Site:
1651 DUNROBIN RD lot 16 con 3 KANATA ON

Database: ***WWIS***

Well ID: 7040815
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: Not Used
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z55576
Tag: A043547
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 2/12/2007
Selected Flag: True
Abandonment Rec:
Contractor: 1119
Form Version: 3
Owner:
Street Name: 1651 DUNROBIN RD
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info: PLAN 4R19582 S/L 3
Lot: 016
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11763372
DP2BR: 0.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 28-Nov-2006 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method:

Overburden and Bedrock Materials Interval

Formation ID: 933091875
Layer: 1
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.479999542236328
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933314013
Layer: 1
Plug From: 15.539999961853
Plug To: 0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 967040815
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11771062
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930895890
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 16.1499996185303
Casing Diameter: 15.8800001144409
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930895891
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 15.539999961853
Depth To: 30.4799995422363
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11777345
Pump Set At: 16.959999084472656
Static Level: 3.3399999141693115
Final Level After Pumping: 3.450000047683716
Recommended Pump Depth: 16.760000228881836
Pumping Rate: 91.0
Flowing Rate:
Recommended Pump Rate: 91.0
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:

Draw Down & Recovery

Pump Test Detail ID: 11817179
Test Type: Recovery
Test Duration: 1
Test Level: 3.369999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817191
Test Type: Draw Down
Test Duration: 50
Test Level: 3.434999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817186
Test Type: Draw Down
Test Duration: 15
Test Level: 3.390000104904175
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817185
Test Type: Draw Down
Test Duration: 10
Test Level: 3.390000104904175
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817187
Test Type: Draw Down
Test Duration: 20
Test Level: 3.390000104904175
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817181

Test Type: Recovery
Test Duration: 2
Test Level: 3.390000104904175
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817183
Test Type: Draw Down
Test Duration: 4
Test Level: 3.380000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817190
Test Type: Draw Down
Test Duration: 40
Test Level: 3.430000066757202
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817182
Test Type: Draw Down
Test Duration: 3
Test Level: 3.369999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817184
Test Type: Draw Down
Test Duration: 5
Test Level: 3.380000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817192
Test Type: Draw Down
Test Duration: 60
Test Level: 3.450000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817178
Test Type: Draw Down
Test Duration: 1
Test Level: 3.3499999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817180
Test Type: Draw Down
Test Duration: 2
Test Level: 3.359999895095825
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817188
Test Type: Draw Down
Test Duration: 25
Test Level: 3.4000000953674316
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11817189
Test Type: Draw Down
Test Duration: 30
Test Level: 3.4200000762939453
Test Level UOM: m

Water Details

Water ID: 934084103
Layer: 1
Kind Code:
Kind:
Water Found Depth: 17.079999923706055
Water Found Depth UOM: m

Water Details

Water ID: 934084104
Layer: 2
Kind Code:
Kind:
Water Found Depth: 22.549999237060547
Water Found Depth UOM: m

Water Details

Water ID: 934084105
Layer: 3
Kind Code:
Kind:
Water Found Depth: 28.040000915527344
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11849425
Diameter: 15.229999542236328
Depth From: 0.0
Depth To: 30.479999542236328
Hole Depth UOM: m
Hole Diameter UOM: cm

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Dec 31, 2020

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: 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-Dec 31, 2020

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Apr 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-Nov 2020

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994- Jul 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- Jun 30, 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- Jul 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- Jun 30, 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-Jun 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: Jul 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Apr 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: Jul 31, 2020

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Apr 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-Mar 31, 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-Feb 28, 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-Jun 2020

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Jul 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- Jun 30, 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- Jul 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, 1992-2018

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-Jul 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-Dec 31, 2020

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Aug 2020

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 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- Jun 30, 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: Apr 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.

APPENDIX E

Technical Standards and Safety Authority

RE: TSSA request - 4 Campbell Reid Court Kanata ON

Public Information Services <publicinformationservices@tssa.org>

Thu 8/26/2021 12:18 PM

To: Mohit Bhargav <mohit.bhargav@gemtec.ca>

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Mariah

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Mohit Bhargav <mohit.bhargav@gemtec.ca>
Sent: August 26, 2021 9:44 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA request - 4 Campbell Reid Court Kanata ON

Hi,

Can you please process a TSSA request for the following properties:

1. Subject property: 4 Campbell Reid Ct
2. 15 Campbell Reid Ct
3. 640 and 1030 Cameron Harvey Drive

in Kanata, ON

Thank you.

Mohit Bhargav
Environmental Technician

Ottawa, ON
tel: 613.836.1422 / toll-free: 1.877.243.6832
mobile: 5068970427 / fax: 613.836.9731

APPENDIX F

Aerial Photographs

HISTORICAL AERIALS

Project Property:	65103.01 4 Campbell Reid Court Kanata ON K2K 1X7
Project No:	
Requested By:	GEMTEC Consulting Engineers and Scientists Limited (Ontario)
Order No:	21041400009
Date Completed:	September 27, 2021

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

Decade	Year	Image Scale	Source
1940	1945	15000	NAPL
1980	1984	25000	NAPL

0 0.125 0.25 0.5 Kilometers

Order Number: 21041400009

Year: 1945
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

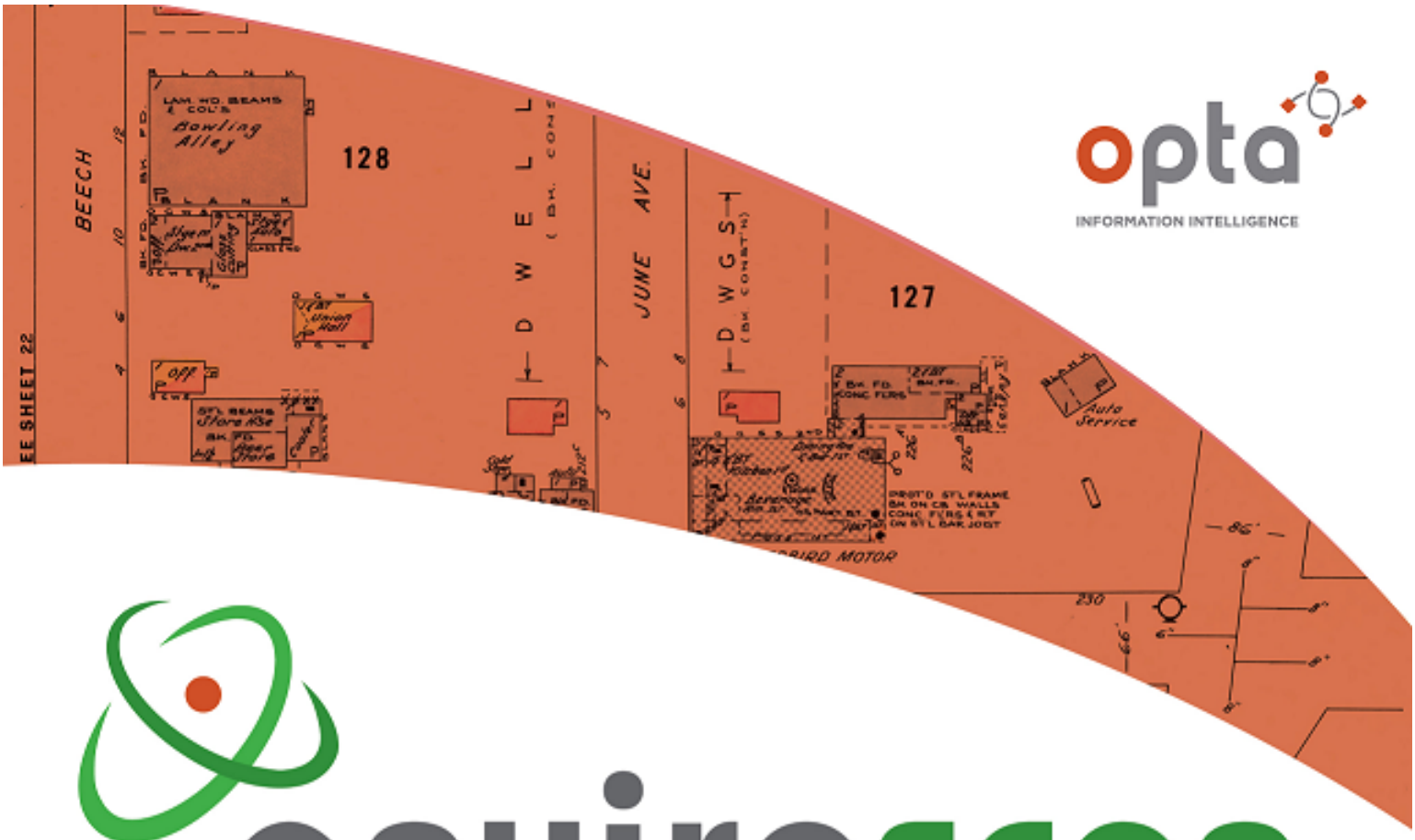
Order Number: 21041400009

Year: 1984
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS

APPENDIX G

Fire Insurance Plans



opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Sunita

Site Address:

4 Campbell Reid Court Kanata Ont

Project No:

21041400009

Opta Order ID:

95279

Requested by:

Eleanor Goolab
ERIS

Date Completed:

9/1/2021 6:26:33 AM

Project Name: 65103.01

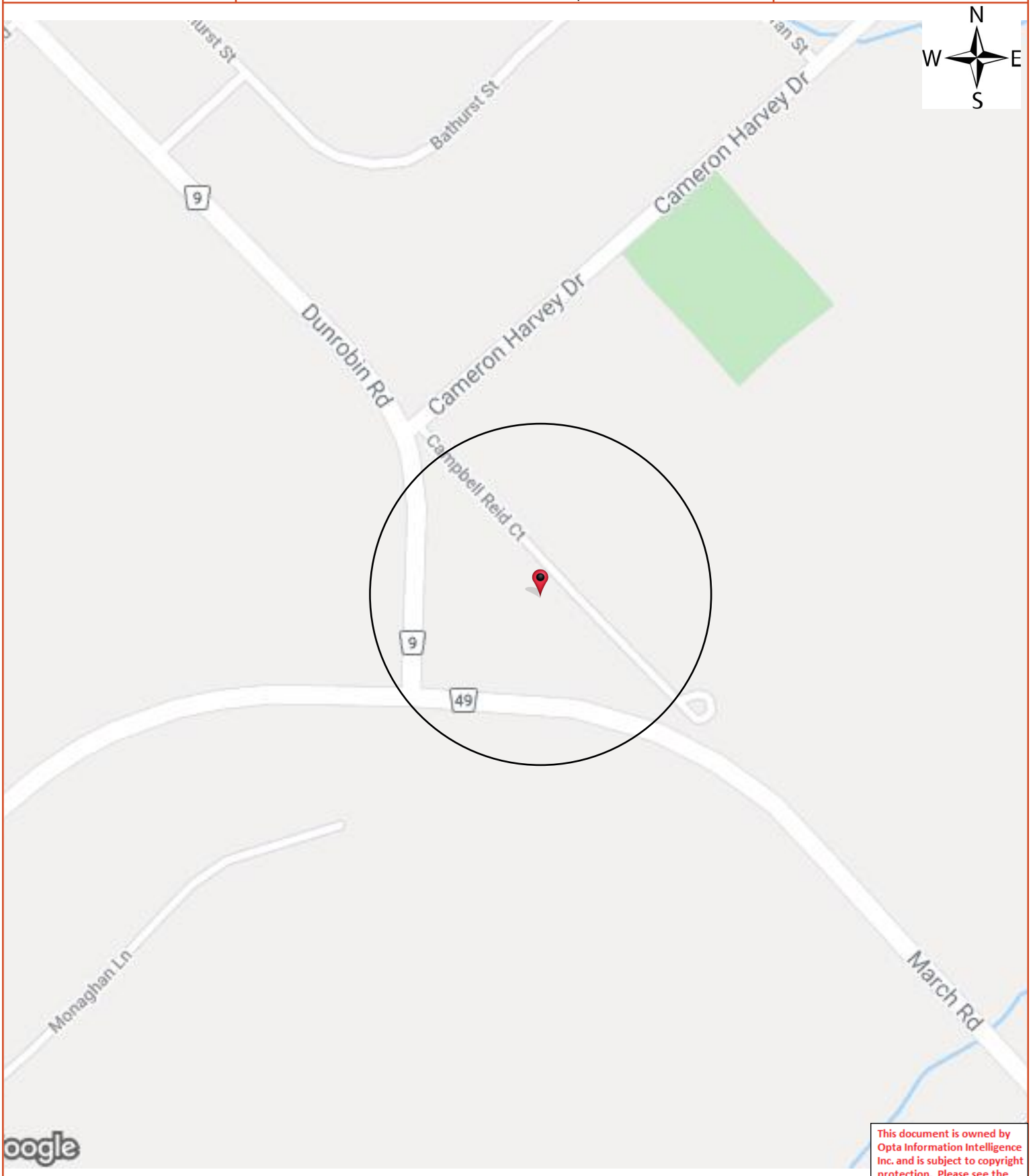
Project #: 21041400009

ENVIROSCAN Report

Search Area: 4 Campbell Reid Court Kanata Ont

Requested by:
Eleanor Goolab
Date Completed: 09/01/2021 06:26:33

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan ™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab
Date Completed: 09/01/2021 06:26:33

OPTA INFORMATION INTELLIGENCE

No Records Found

N
W E
S

APPENDIX H

Well Records

UTM 18 425018 E
9 5021414715 N
Elev. 9 03101
Basin 25

3. 31G5d

ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario

RECEIVED
NOV 20 1949
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

15 No. 4

Gen - III
Lot - 15

Water Well Record

[redacted] March Con. 3 Lot 15 Rr. Lot
South Indoh Acres
Date Completed [illegible] Cost of Well (not including pump) 175-50

Pipe and Casing Record

Casing diameter(s) 5"
Length(s) of casing(s) 1 X 8'
Length of screen Nil
Type of screen
Type of pump
Capacity of pump
Depth of pump setting

Pumping Test

Date
Developed Capacity
Duration of Test
Pumping Rate
Drawdown
Static level of completed well 17 feet
Is well a gravel-wall type? No

Water Record

Kind (fresh or mineral) Fresh
Quality (hard, soft, contains iron, sulphur etc.) Hard
Appearance (clear, cloudy, coloured) Clear
For what purpose(s) is the water to be used? Watering Cattle
How far is well from possible source of contamination? 100'
What is source of contamination? Stable
Enclose a copy of any mineral analysis that has been made of water

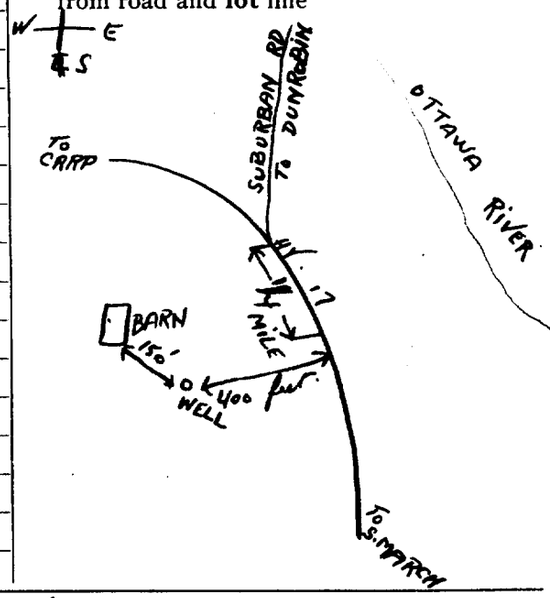
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
52		35'

Well Log

Drift and Bedrock Record	From	To
	0 ft.	ft.
Sandstone	1	54

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? Upland
Drilling Firm Blair Phillips
Address 614 Gilmour St Ottawa
Recorded by Blair Phillips Address 614 Gilmour St
Date 3 Sept 49 Licence Number 407

292

UTM 18 Z 425000 E
5 R 5024730 N

Elev. 403 00

Basin 25

31G5d

The Ontario Water Resources Commission Act, 1957

GROUND WATER BRANCH No. 3306
DEC 6 1960
ONTARIO WATER RESOURCES COMMISSION

WATER WELL RECORD

County or District Carleton Township, Village, Town or City March

Con 3 Lot PT-15 Date completed 17 (day) Sept (month) 60 (year)

[redacted] ress South March

Casing and Screen Record

Inside diameter of casing 2

Total length of casing 17

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 2

Pumping Test

Static level 7

Test-pumping rate 12 G.P.M.

Pumping level 30

Duration of test pumping 2 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

~~with pumping level~~ at of 30

Well Log

Overburden and Bedrock Record	From ft.	To ft.
Clay	0	1
Sand stone	1	60

Water Record

Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
60	5-1	Fresh

For what purpose(s) is the water to be used?

Bloe Roof New House

Is well on upland, in valley, or on hillside?

Drilling Firm E. R. Corrette

Address Ottawa

Licence Number H57

Name of Driller Same

Address

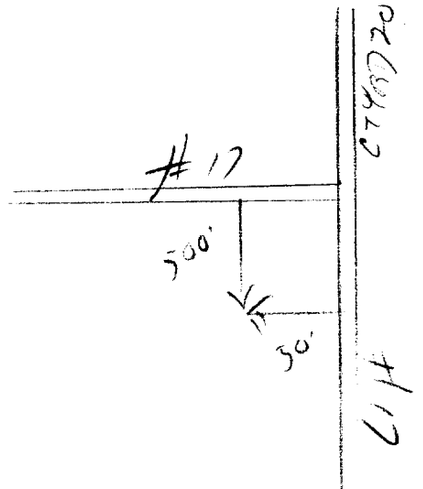
Date Nov 28 - 60

E. R. Corrette

(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



#16

UTM 18 Z 425130 E
15 R 5024660 N

Elev. 4 R 0300

Basin 25

31G5d

GROUND WATER BRANCH
JUL 15 1962
No.
ONTARIO WATER RESOURCES COMMISSION

C

3118

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton

Township, ~~Village, Town or City~~ March

Con. 4 Lot 15

Date completed 21 (day) May (month) 62 (year)

[redacted] dress South March

Casing and Screen Record

Inside diameter of casing 4

Total length of casing 12

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 4"

Pumping Test

Static level 8

Test-pumping rate 6 G.P.M.

Pumping level 12

Duration of test pumping 1 hr.

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft	To	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay loam	0	2		
sandstone	2	40	38	fresh

For what purpose(s) is the water to be used? house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm Ben Edgeworth

Address

Licence Number 700

Name of Driller or Borer Ben Edgeworth

Address 413 Edgeworth

Date May 28/62

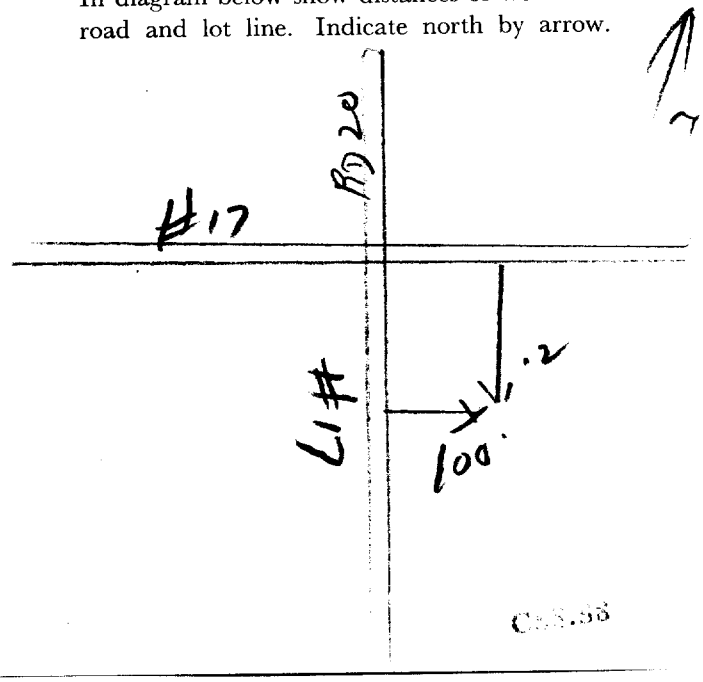
(Signature of Licensed Driller or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



1.7

APL

UTM 18 425040 E
5 R 5024960 N

31G Se

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
SEP 13 1962
ONTARIO WATER RESOURCES COMMISSION

Elev. 4 R 0290

Basin 25

County or District CARLETON Township, Village, Town or City MARCH

Con. IV Lot 15 Date completed 10 August 1962 (day month year)

Owner [redacted] Dunrobin
(print in block letters) RR# 1

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 9'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

Pumping Test

Static level 12'

Test-pumping rate 30 G.P.M.

Pumping level 15'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 30 G.P.M.

with pump setting of 20' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
OVERBURDEN	0'	1'		
HARD GREY LIMESTONE	1'	160'	90'	fresh

For what purpose(s) is the water to be used?

New School

Is well on upland, in valley, or on hillside? Upland

Drilling or Boring Firm

BLAIR PHILLIPS DRILLING CO. LTD.

Address 1119 Balaise Road, Ottawa 5, Ontario

Licence Number 474

Name of Driller or Borer M. Sztepa

Address 90 Greve Ave. Ottawa

Date 22 August 1962

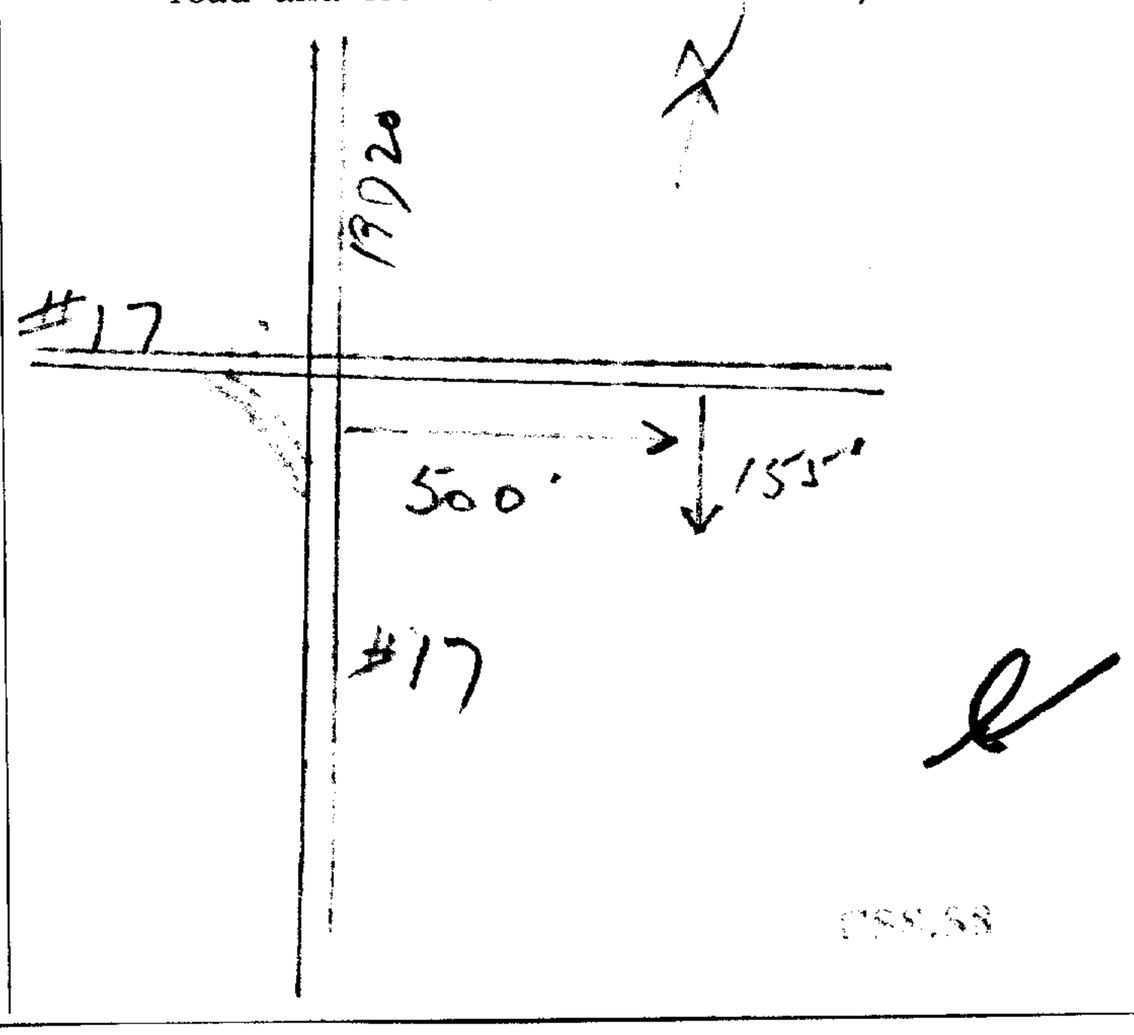
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M-61-3852

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



UTM | 18 | Z | 4215014 0 | E
| 5 | R | 5021491 0 | N
Elev. | 4 | R | 03 010
Basin | 25 | | | |

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

3165e

15 No 3123

GROUND WATER BRANCH
MAY 23 1958
ONTARIO WATER RESOURCES COMMISSION

Water-Well Record

County or Territorial District CARLETON Township, Village, Town or City MARCH

[redacted] in Village, Town or City)

Address

(day) (month) (year)

Pipe and Casing Record

Casing diameter(s) 5 INCH
Length(s) 14 FEET
Type of screen NONE
Length of screen

Pumping Test

Static level 14 FEET
Pumping rate 350 GPH
Pumping level 35'
Duration of test 1 HOUR

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
SILT	0	2	50	30	FRESH
SANDSTONE	2	100	100	86	"

Water Record

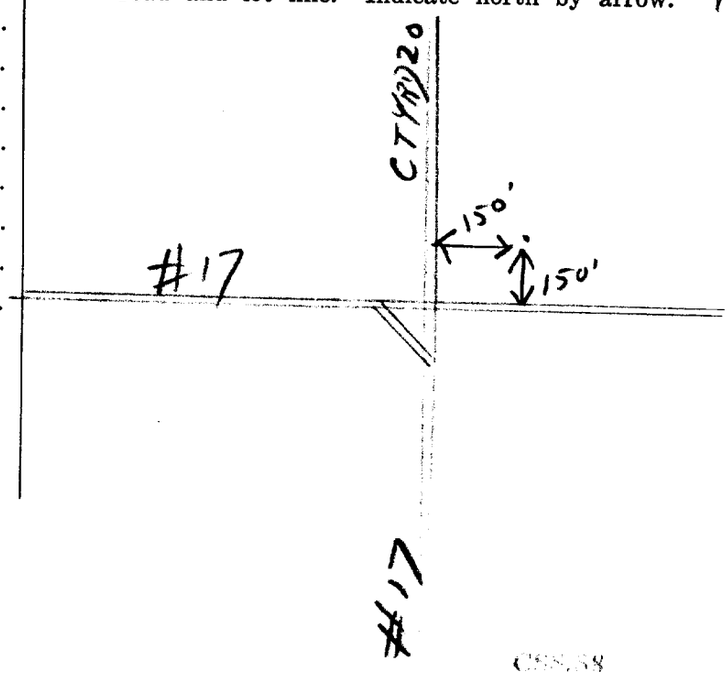
For what purpose(s) is the water to be used? HOUSE
Is water clear or cloudy? CLEAR
Is well on upland, in valley, or on hillside? UPLAND
Drilling firm McGINNEY
Address
Name of Driller J. W. ADAMS
Address
Licence Number

I certify that the foregoing statements of fact are true.

Date March 2/58 J. W. McGinney
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5

UTM 18 Z 421491010 E
15 R 5012141960 N
Elev. 4 R 03010
Basin 25

31G5e

GROUND WATER BRANCH No. 15 3114
MAR 16 1959
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District CARLETON Township, Village, Town or City KANATA

[redacted] 4 [redacted] 16

Date completed 1 (day) MAR (month) 59 (year)

Address DUNROBIN

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 16'
Type of screen NO
Length of screen —
Depth to top of screen —
Diameter of finished hole 4"

Pumping Test

Static level 18
Test-pumping rate 5 G.P.M.
Pumping level 18
Duration of test pumping 1 HR
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 3 G.P.M.
with pumping level of 18

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
SANDSTONE	0	56	56	38	FRESH

Water Record

For what purpose(s) is the water to be used?
HOUSE

Is well on upland, in valley, or on hillside?

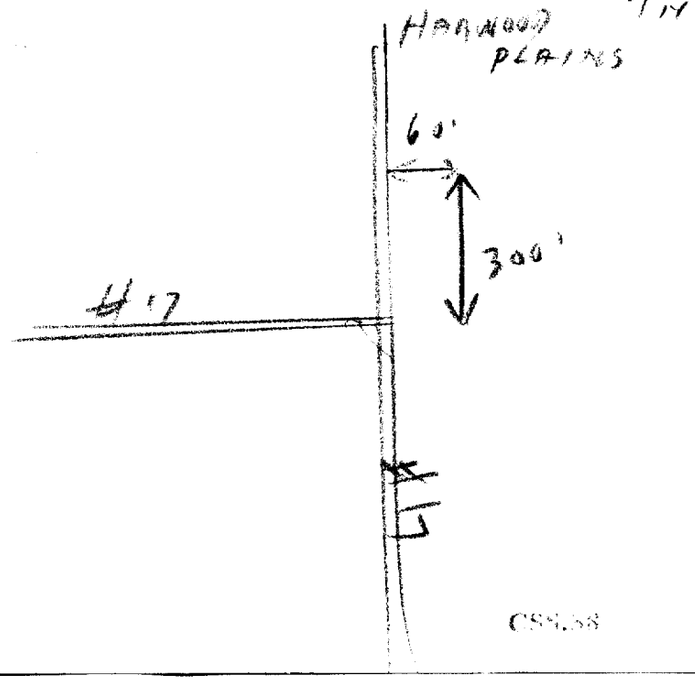
Drilling Firm J J MEAGHER
Address 639 ROWANWOOD OTTAWA

Licence Number
Name of Driller JAMIE
Address
Date MAR 3/59

(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5
15M-58-4149

UTM 18 412490 E
15 502490 N
Elev. 4 03010
Basin 25

3165e

GROUND WATER BRANCH
15 No 3426
SEP 3 1959
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District CARLETON Township, Village, Town or City MARCH

[redacted] completed 26 (day) MAY (month) 59 (year)

[redacted]ress 435 PRESTON ST

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 10'
Type of screen —
Length of screen —
Depth to top of screen —
Diameter of finished hole 4"

Pumping Test

Static level 9
Test-pumping rate 5 G.P.M.
Pumping level 9
Duration of test pumping 1 HR
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 5 G.P.M.
with pumping level of 9

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
CLAY LOAM	0	1			
LIMESTONE	1	70	70	61	FRESH

Water Record

For what purpose(s) is the water to be used?
HOUSE

Is well on upland, in valley, or on hillside? ✓

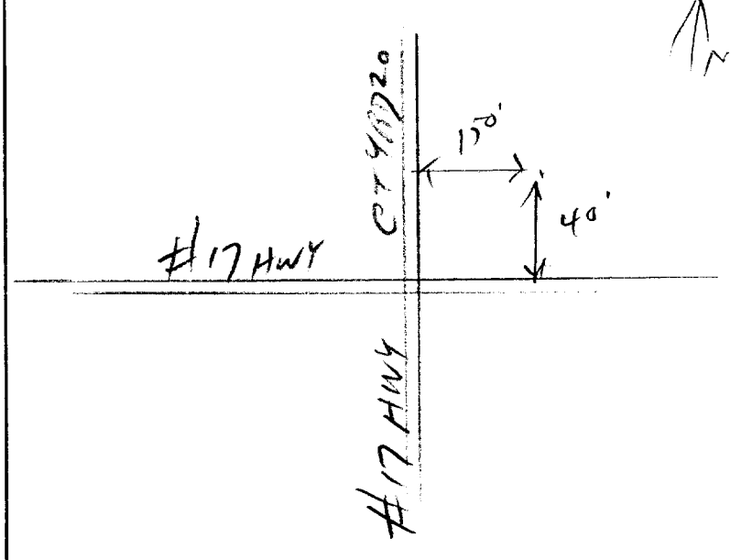
Drilling Firm M. MEAGHER
Address OTTAWA

Licence Number 249
Name of Driller SAME
Address
Date AUG 31/59

M. Meagher
(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5
15M-58-4149

41

UTM 18 Z 4215010 E

5 R 5012510 N

Elev. 5 R 02910

Basin 25

3165e

GROUND WATER BRANCH
15 No 3417
JUN 1 1962
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, ~~Village, Town or City~~ March

Con. 4 Lot 16 Date completed 21 (day) Mar (month) 62 (year)

[redacted] dress Dunrobin

Casing and Screen Record

Inside diameter of casing 4"

Total length of casing 14'

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole — 4"

Pumping Test

Static level 12

Test-pumping rate 5 G.P.M.

Pumping level 14'

Duration of test pumping 1 hr.

Water clear or cloudy at end of test clearing

Recommended pumping rate 4 G.P.M.

with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft	To ft	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
clay	0	8		
sandstone	8	63	55	fresh

For what purpose(s) is the water to be used? house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm Ben E Sparks

Address

Licence Number 700

Name of Driller or Borer Ben Elgersma

Address 413 Edgeworth

Date May 28/62

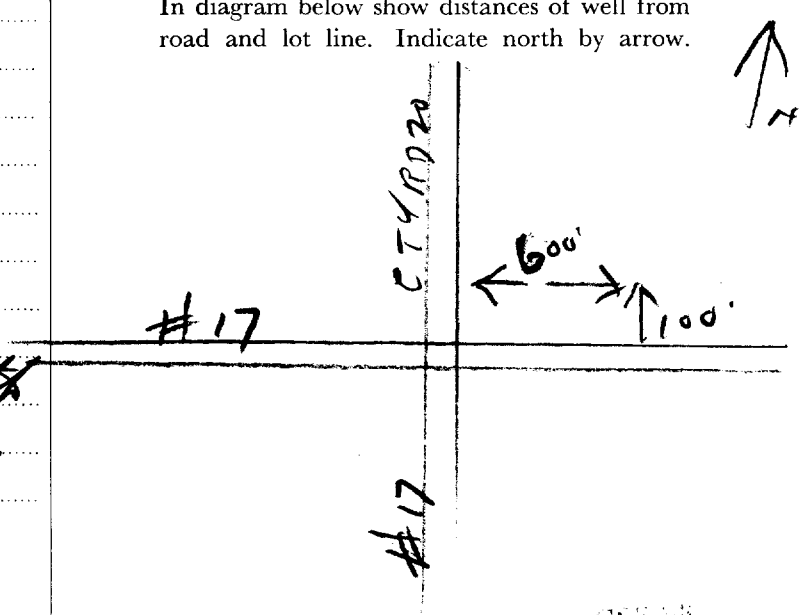
Ben E Sparks
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



3165d

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1511038 | MUNICIP. 15096 | CON. C&N | 03

COUNTY OR DISTRICT: CARLETON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: MARCH TWP. SOUTH MARCH ONT.

CON. BLOCK, TRACT, SURVEY, ETC.: CON 3

LOT: ~~014~~ 015

DATE COMPLETED: DAY 28 MO. 08 YR. 70

UTM: 0246600 | RC. 4 | ELEVATION: 03100 | RC. 4 | BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
		PREVIOUSLY DRILLED		0	51
WHITE	SANDSTONE	PARTICLES OF SHALE & LIMESTONE	SOFT DRILLING	51	80

31: 0051 24 | 0088 1181715

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0088	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		0	0051 ~~51~~
02	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		51	0088 ~~88~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0004 GPM. | DURATION OF PUMPING: 03 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
015 FEET	024 FEET	024 FEET	024 FEET	024 FEET	024 FEET

1 ☒ PUMPING 2 ☐ RECOVERY

IF FLOWING, GIVE RATE: GPM.

PUMP INTAKE SET AT: 41 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP

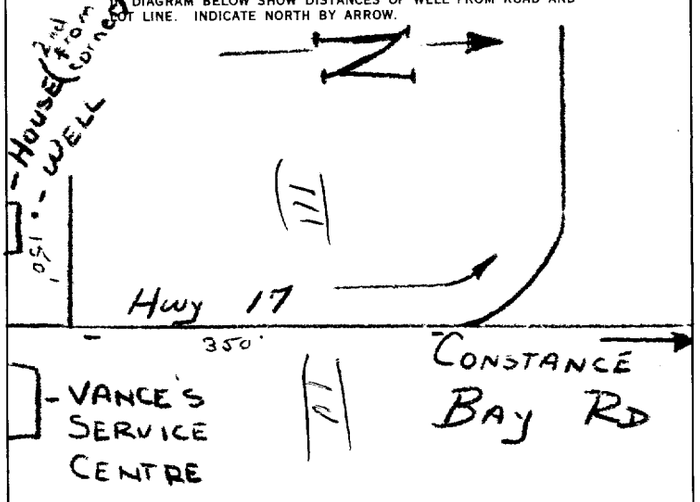
RECOMMENDED PUMP SETTING: 041 FEET

RECOMMENDED PUMPING RATE: 0004 GPM.

50-53: 0004 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☒ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: W.A. DEEVY | LICENCE NUMBER: 1703

ADDRESS: 2898 HAUGHTON ST.

NAME OF DRILLER OR BORER: W.A. DEEVY | LICENCE NUMBER: 1703

SIGNATURE OF CONTRACTOR: W.A. Deevy | SUBMISSION DATE: DAY 21 MO. 08 YR. 70

OWRC COPY

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1703 | DATE RECEIVED: 270171

DATE OF INSPECTION | INSPECTOR

REMARKS: P Kim. WI Km

The Ontario Water Resources Commission Act

WATER WELL RECORD

3195d

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 (1 2) | 1511125 | MUNICIP. 1500G (10 14) | CON. GON (15 22 23 24) | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	III	015

[redacted] uth March, Ont. (Kennedy's Corner

DATE COMPLETED: DAY 16 MO. ~~Apr.~~ 04 YR. 71

UTM 0246 10 (24) | RC 4 (25) | ELEVATION 0305 (26) | RC 5 (30) | BASIN CODE 25 (31)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
	soil - fill			0	2
	sandstone			2	80

31: 0002 0201 0080 118

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0048 (48-76)	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(15-18)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(20-23)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(25-28)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(30-33)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06 (10-11)	1 ☒ STEEL (12) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0	~~20~~ 0020 (13-16)
(17-18)	1 ☐ STEEL (19) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0080 (20-23)
(24-25)	1 ☐ STEEL (26) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			(27-30)

SCREEN

SIZE(S) OF OPENING (SLOT NO.) (31-33)	DIAMETER INCHES (34-38)	LENGTH FEET (39-40)
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET (41-44)	80

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
(10-13)	(14-17)		
(18-21)	(22-25)		
(26-29)	(30-33)	80	

71 PUMPING TEST

PUMPING TEST METHOD (10)	PUMPING RATE (11-14)	DURATION OF PUMPING (15-16 HOURS, 17-18 MINS.)
1 ☒ PUMP 2 ☐ BAILER	0015 GPM.	01 HOURS 00 MINS.

STATIC LEVEL (19-21)	WATER LEVEL END OF PUMPING (22-24)	WATER LEVELS DURING (25) 1 ☐ PUMPING 2 ☒ RECOVERY	15 MINUTES (26-28)	30 MINUTES (29-31)	45 MINUTES (32-34)	60 MINUTES (35-37)
003 FEET	056 FEET		003 FEET	~~003~~ 003 FEET	~~003~~ 003 FEET	~~003~~ 003 FEET

IF FLOWING, GIVE RATE (38-41)	PUMP INTAKE SET AT	WATER AT END OF TEST (42)
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

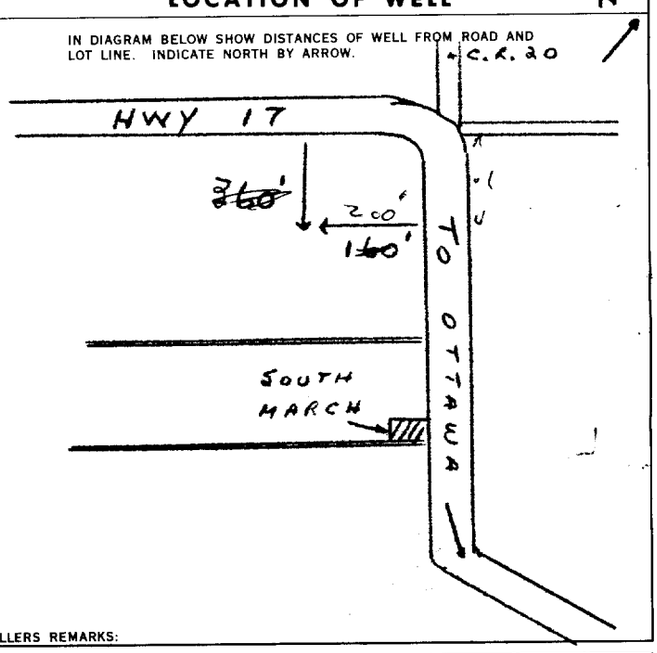
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING (43-45)	RECOMMENDED PUMPING RATE (46-49)
☒ SHALLOW ☐ DEEP	030 FEET	0005 GPM.

(50-53) 000.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

N

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING (57)

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: J.B. DUFRESNE & CO. LIMITED — LICENCE NUMBER: 1802

ADDRESS: 1014 Maitland Ave., Ottawa 5, Ont.

NAME OF DRILLER OR BORER: R. Lauriel — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature]

SUBMISSION DATE: DAY 16 MO. 4 YR. 71

OFFICE USE ONLY

DATA SOURCE (58): 1 — CONTRACTOR (59-62): 1802 — DATE RECEIVED (63-68): 290471 — 80

DATE OF INSPECTION — INSPECTOR: Hun

REMARKS:

P K

WI

OWRC COPY

The Ontario Water Resources Commission Act

WATER WELL RECORD

315 5d

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1511129 | MUNICIP. 1,5906 | CON. C&W | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	III	015

[redacted] uth March, Ont. (Kennedy's Corner)

DATE COMPLETED: DAY 28 MO. ~~Apr.~~ 04 YR. 71

UTM | RC. 4 | ELEVATION 0305 | RC. 5 | BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
	sandstone			0	77

31 | 0077 | 18

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0055 ~~55-95~~	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0	~~27~~ 0017
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0077
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0013 GPM.	01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	042 FEET	010 FEET	010 FEET	~~010~~ FEET	~~010~~ FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

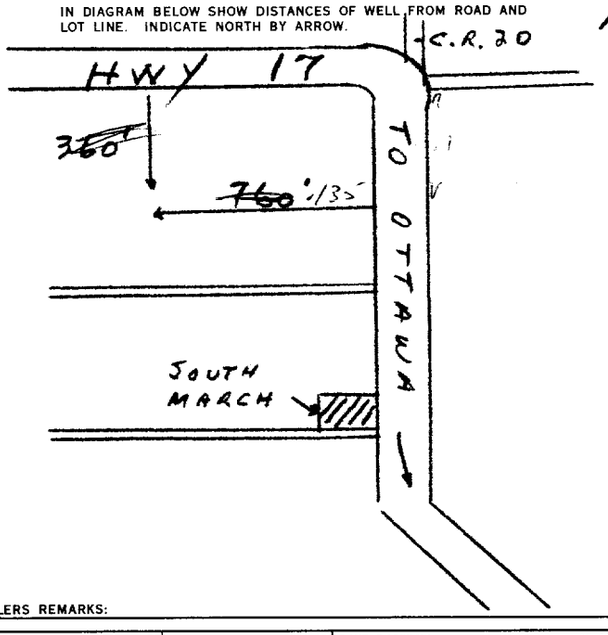
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
~~XXX~~ SHALLOW ☒ DEEP	090 FEET	0010 GPM.

50-53 0004 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

N

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☐ RECHARGE WELL

WATER USE 02

1 ☐ DOMESTIC 5 ☐ COMMERCIAL
2 ☒ STOCK 6 ☐ MUNICIPAL
3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING
☐ OTHER 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 6 ☐ BORING
2 ☐ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE) 8 ☐ JETTING
4 ☒ ROTARY (AIR) 9 ☐ DRIVING
5 ☐ AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: J.B. DUFRESNE & CO. LIMITED — LICENCE NUMBER: 1802

ADDRESS: 1014 Maitland Ave., Ottawa 5, Ont.

NAME OF DRILLER OR BORER: R. Laniel — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: R. Laniel

SUBMISSION DATE: DAY 28 MO. 4 YR. 71

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1802 | DATE RECEIVED 060571

DATE OF INSPECTION | INSPECTOR

REMARKS: P WI

OWRC COPY

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3141 5d

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1513750 | MUNICIP. 15006 | CON. CON | 103

COUNTY OR DISTRICT: Carleton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March | CON., BLOCK, TRACT, SURVEY, ETC.: 3 | LOT: 015

[redacted]

DATE COMPLETED: DAY 15 MO. 01 YR. 74

RC. 024504 | RC. 4 | ELEVATION 303 | RC. 4 | BASIN CODE 26 | JAN 12, 1975 | 44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Clay		Top Soil	0	4
Grey	Sandstone		Med hard	4	125

31 0001460502 | 0125211 8

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0000	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
0125	1 ☐ FRESH 3 ☐ SULPHUR 2 ☒ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE	.188	0	18
06	4 ☒ OPEN HOLE		18	125

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE: 0000 GPM | DURATION OF PUMPING: HOURS MINS

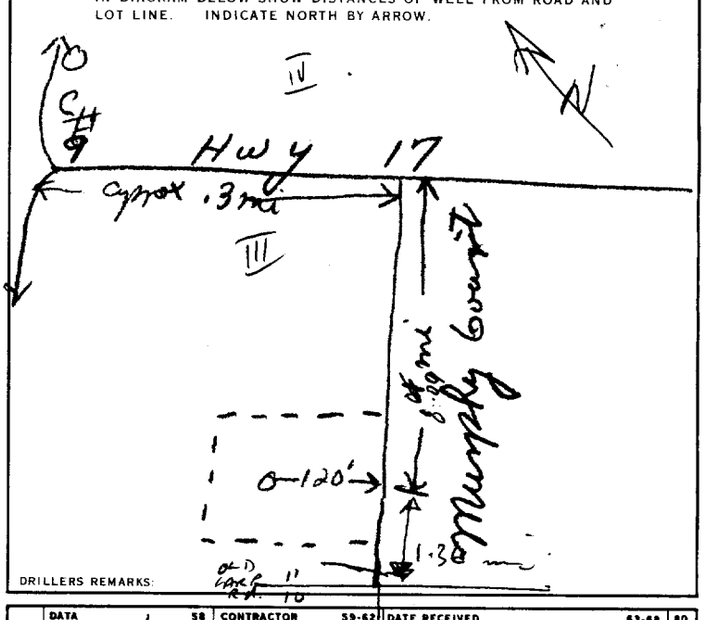
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
011 FEET	190 FEET		110 FEET	110 FEET	110 FEET	110 FEET

IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: 110 FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 110 FEET | RECOMMENDED PUMPING RATE: 005 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Maple Leaf Drilling | LICENCE NUMBER: 3658

ADDRESS: 409-465 Richmond Rd

NAME OF DRILLER OR BORER: Robert Bisson | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Robert Bisson | SUBMISSION DATE: DAY MO. YR.

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3658 | DATE RECEIVED 110274

DATE OF INSPECTION | INSPECTOR K P-R

REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3 19/52

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1513876 | MUNICIP. 1,5006 | CON. Con IV

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
Carlton	March 3 9	IV	015

[redacted] R1 Kanata Ont

DATE COMPLETED: DAY 13 MO 11 YR 75

LIC.	BC	ELEVATION	RC	BASIN CODE	II	III	IV
024772	4	300	4	26	JAN 12, 1975		44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
~~Top~~					
Brown	Sandstone			0	84

31 00884618

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
080	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	0	0	028
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		20	~~028~~ 0084
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER — PUMPING RATE: ~~000~~ GPM — DURATION OF PUMPING: 01 HOURS 00 MINS

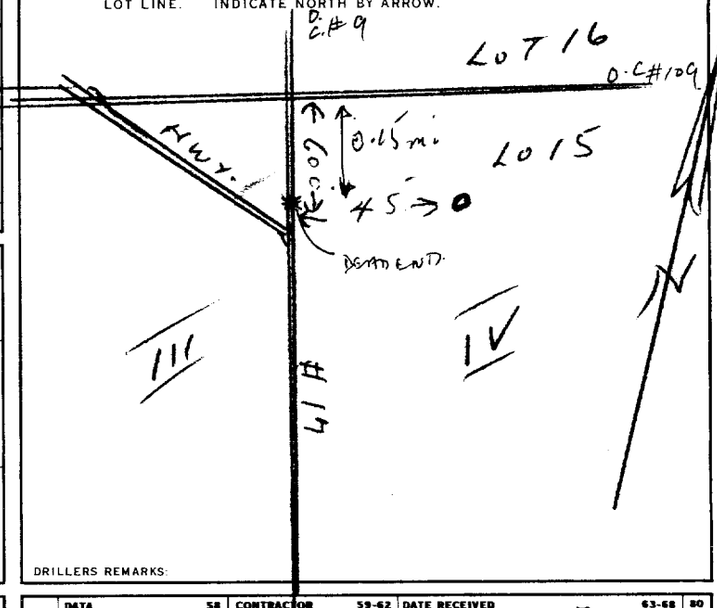
STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING: 1 ☒ PUMPING	15 MINUTES FEET	30 MINUTES FEET	45 MINUTES FEET	60 MINUTES FEET
002	~~000~~		002	002	002	002

IF FLOWING, GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
	50	

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
☐ SHALLOW ☒ DEEP	050	0010

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: George H Lawson — LICENCE NUMBER: 3323

ADDRESS: Calabogie Ont

NAME OF DRILLER OR BORER: Alf Lawson — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: G H Lawson — SUBMISSION DATE: DAY 31 MO 01 YR 74

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 3323 — DATE RECEIVED: 080274

DATE OF INSPECTION: — INSPECTOR: J.A.

REMARKS: P-R

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 11514694 | MUNICIP. 15006 | CON. CON | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	[redacted]	3	016

DATE COMPLETED: DAY 08 MO 05 YR 75

[redacted] Tybalt Cres. Ottawa, Ontario

UTM 24580 4 03021 4 26 | ELEVATION | SOURCE CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	2
grey	sandstone		hard	2	30
white	sandstone			30	73

31 | 0002628 | 0302187 3 | 0073118

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0068	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL	188	0	0026
05	4 ☒ OPEN HOLE		26	73
06	4 ☒ OPEN HOLE			0073
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0010 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	040 FEET	1 ☒ PUMPING 2 ☐ RECOVERY	040 FEET	040 FEET	040 FEET	040 FEET

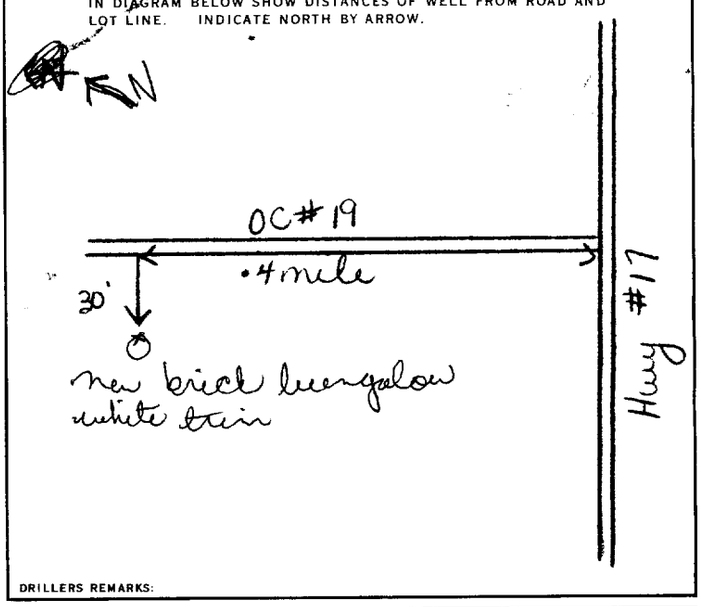
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	050 FEET	0005 GPM.

50-53 ___ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE 55-56 01: 1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED

METHOD OF DRILLING 57 5: 1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☒ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. | LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittsville, Ontario

NAME OF DRILLER OR BORER: M. Hamilton | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 9 MO. 5 YR. 75

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 1558 | DATE RECEIVED 63-68: 05 06 75

DATE OF INSPECTION: 10/6/77 | INSPECTOR: R. Hobby

REMARKS:

P

WI

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Ministry of the Environment

Ontario

7

The Ontario Water Resources Act

WATER WELL RECORD

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11 1520303

MUNICIP | CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT	DATE COMPLETED
Carleton	Kanata	Con 4,	15	DAY 28 MO 10 YR 85

[redacted] Ph 1, Kanata K2K 1X7

RC | ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	6
grey	sandstone			6	84

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
60	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
79	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	.188	0	22
6	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		22	84
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	Cement grouted
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	20 GPM	1 HOURS 0 MINS

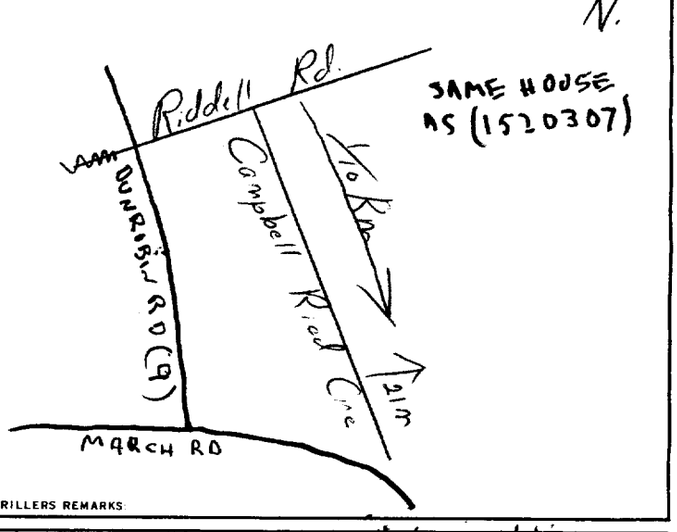
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
23 FEET	60 FEET		60 FEET	60 FEET	60 FEET	60 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	60 FEET	15 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE

1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☒ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Henry Mains Well Drilling	3644
ADDRESS Box 326 Richmond Ont.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
[signature]	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE DAY 29 MO 10 YR 85
[signature]	

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		27 01 86
DATE OF INSPECTION	INSPECTOR	
REMARKS		

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FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 1520307 MUNICIP CON.

COUNTY OR DISTRICT: Carleton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata | CON., BLOCK, TRACT, SURVEY, ETC.: Con 4 | LOT: 15

[redacted] RR#1, Kanata K2K 1X7

DATE COMPLETED: DAY 28 MO 10 YR 85

RC | ELEVATION | RC | BASIN CODE | II | III | IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	2
grey	sandstone			2	63

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
58	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	22
6	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		22	63
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
		cement grouted

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	14 GPM	1 HOURS 0 MINS

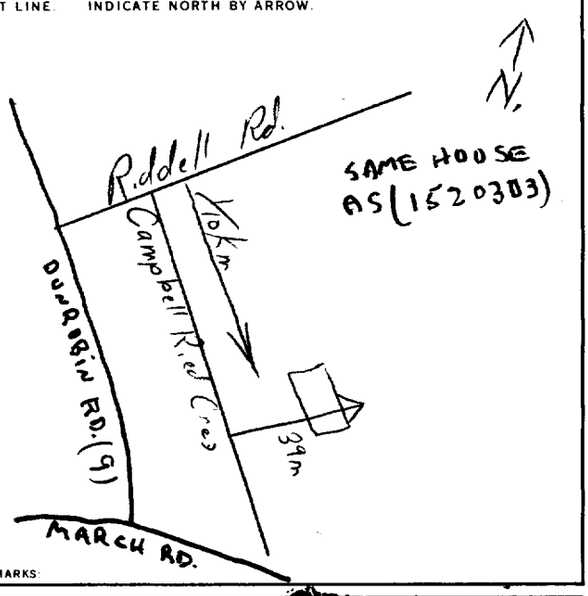
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
15 FEET	50 FEET		50 FEET	50 FEET	50 FEET	50 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	50 FEET	10 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☒ RECHARGE WELL

WATER USE

1 ☒ DOMESTIC 5 ☐ COMMERCIAL
2 ☐ STOCK 6 ☐ MUNICIPAL
3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING
☐ OTHER 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 6 ☐ BORING
2 ☐ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE) 8 ☐ JETTING
4 ☐ ROTARY (AIR) 9 ☐ DRIVING
5 ☒ AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling | LICENCE NUMBER: 3644
ADDRESS: Box 326, Richmond Ont.
NAME OF DRILLER OR BORER: Henry Mains | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 29 MO 10 YR 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 27 01 86
DATE OF INSPECTION | INSPECTOR
REMARKS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 1533821

Municipality 15006 Con. CON 03

County or District: OTTAWA-CARLETON

Township/Borough/City/Town/Village: KANATA (TWP OF MARCH)

Con block tract survey, etc.: CONCESSION 3

Lot: 16

Address: 1625 Dunrobin Rd, Kanata, Ont

Date completed: 02 04 03 (day month year)

21 UTM Northing RC Elevation RC Basin Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Well used as road for ease of access to 6" dug well.				

31

32

41 WATER RECORD

Water found at - feet	Kind of water
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6"	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		0	75.
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Slots of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	75	Holeplug cement grout (3 bags)
		(20 x 50#)

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer

Pumping rate: GPM

Duration of pumping: Hours Mins

Static level: 16 feet

Water level end of pumping: feet

Water levels during: 1 ☐ Pumping 2 ☐ Recovery

15 minutes: feet

30 minutes: feet

45 minutes: feet

60 minutes: feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☐ Cloudy

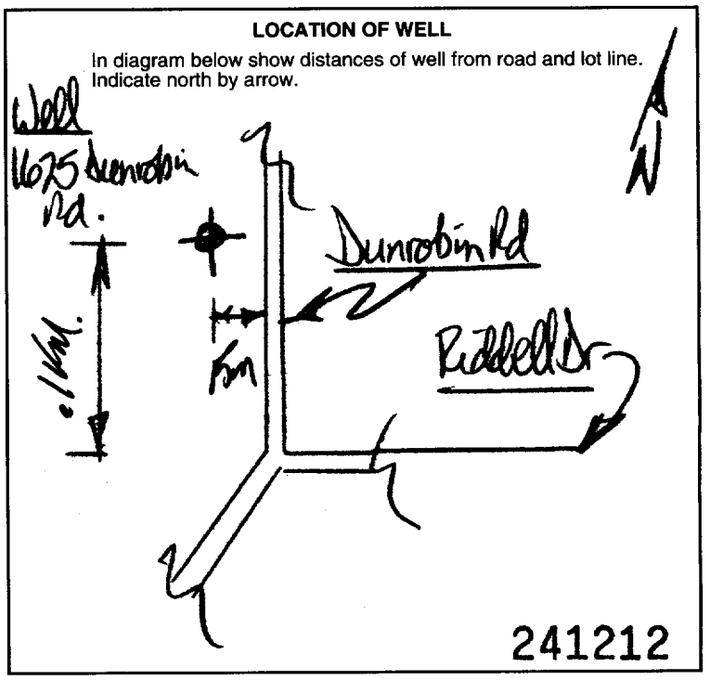
Recommended pump type: ☐ Shallow ☐ Deep

Recommended pump setting: feet

Recommended pump rate: GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



241212

FINAL STATUS OF WELL

1 ☐ Water supply
2 ☐ Observation well
3 ☐ Test hole
4 ☐ Recharge well
5 ☐ Abandoned, insufficient supply
6 ☒ Abandoned, poor quality
7 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

WATER USE

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☐ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☒ Not use
10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☐ Rotary (air)
5 ☐ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☐ Other

Name of Well Contractor: STANTON DRILLING INC. — Well Contractor's Licence No.: 4875

Address: BOX 219, Pakenham, Ont. K0A2X0

Name of Well Technician: Peter Stanton — Well Technician's Licence No.: T-0886

Signature of Technician/Contractor — Submission date: day 04 month 06 03

MINISTRY USE ONLY

Data source — Contractor: 4875 — Date received: JUN 04 2003

Date of inspection — Inspector

Remarks

CSS.ES3

0506 (07/00) Front Form 9

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Ontario — Ministry of the Environment

Well Record

Regulation 903 Ontario Water Resources Act

Tag#: A135311 (Print Below) — A135311

Measurements recorded in: ☐ Metric ☒ Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Klinger Homes		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
176 Loreka Court	Stittsville	ON	K2S 0N3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1535 Monaghan Lane	March	15	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Kanata	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	421847	5024749	4M-829	S/L 18

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Sand	& Fill		0'	7'
Grey & White	Sandstone			7'	70'
Grey & White	Sandstone			70'	80'

X HO - FRANCOIS POIRIER

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/imp gal)
20'	0'	Neat cement	12.5

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/4"	Steel	188"	+2'	20'
6 1/8"	Open Hole		20'	80'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Other, specify
70 (m/ft) ☐ Gas	☐ Fresh ☒ Untested	Y
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
3'	20'	9 3/4"
20'	80'	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify — Not tested

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 70

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 10'

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 70'

Recommended pump rate (l/min / GPM): 20

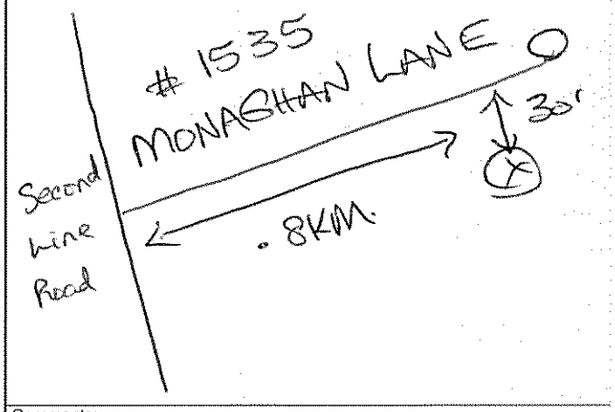
Well production (l/min / GPM): 20+

Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level		9.6'		10'
1		9.7	1	9.6
2		9.7	2	9.6
3		9.7	3	9.6
4		9.7	4	9.6
5		9.7	5	9.6
10		9.8	10	9.6
15		9.8	15	9.6
20		9.9	20	9.6
25		9.9	25	9.6
30		9.9	30	9.6
40		9.9	40	9.6
50		10	50	9.6
60		10'	60	9.6"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:
1/2 HP - 10 GPM SET @ 70 FT

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
6659 Franktown Road, RR#1	Richmond	ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6138982170	Hanna, Jeremy	T3632		2013 09 30

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2013 09 03	2013 08 29

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Audit No. Z 155220
Received NOV 12 2013

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Measurements recorded in: ☐ Metric ☒ Imperial

Tag#: A199873 *(Print Below)*

A199873

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
11 Campbell Reid Court	West Carleton (March)	P/L 15	4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Dunrobin	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	425117	5024942	RP-5R 615	Part 1

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Sand			0'	4'
Grey & Brown	Sandstone			4'	23'
Grey	Sandstone			23'	48'
Grey	Sandstone			48'	69'
Grey	Sandstone			69'	72'
Grey	Sandstone			72'	80'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20'	0'	Neat cement	7.8

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/4"	Steel	.188"	+2'	20'
6"	Open Hole		20'	80'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* **Not tested**

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 70

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 3.9'

If flowing give rate (l/min / GPM): X

Recommended pump depth (m/ft): 70'

Recommended pump rate (l/min / GPM): 20

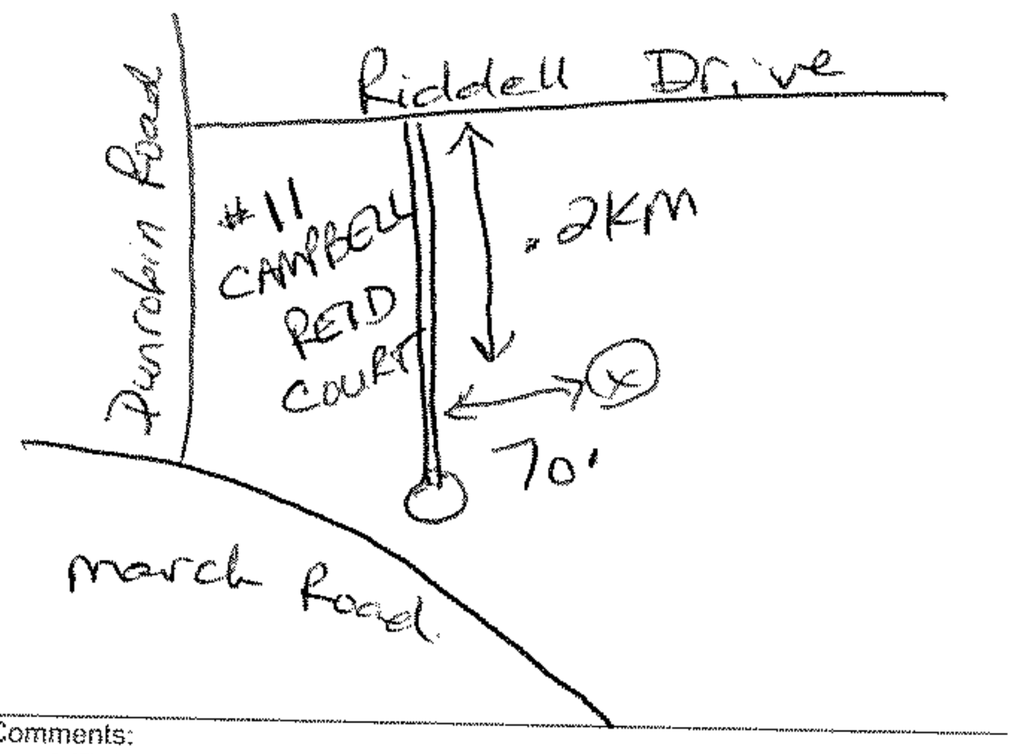
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	0.8"		3.9'
1	2.6	1	1.5
2	2.9	2	1.
3	3.1	3	0.8
4	3.2	4	0.8
5	3.3	5	0.8
10	3.4	10	0.8
15	3.5	15	0.8
20	36	20	0.8
25	3.6	25	0.8
30	3.7	30	0.8
40	3.8	40	0.8
50	3.9	50	0.8
60	3.9"	60	0.8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:
1/2 HP - 10 GPM SET @ 70 FT

Water Details

Water found at Depth	Kind of Water	Hole Diameter Depth From	Depth To	Diameter (cm/in)
48 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, *specify*			
69 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☒ Untested ☐ Other, *specify*	0	20	
72 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☒ Untested ☐ Other, *specify*	20	80	

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
8058 Frankltown Road, RR#1	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Hanna, Jeremy

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
13632		2016 04 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2016 04 27	2016 04 26

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Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* N/A.

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
#11 Campbell Reid Court	West Carleton (March)	P/L 15	Con 4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Dunrobin	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	425120	5024949	RP-5R615	Part 1

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	6" Drilled Well Abandonment			0'	84'

*Henry Mains - Oct 23/85 - Audit 270186 - ATTACHED

*New 6" Drilled Well - TAG A199873 - APRIL 26/16
Audit - Z202778

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
84'	5'	3/8 Hole Plug	23 Bags
5'	0'	Backfill	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, *specify* Casing Rusted Potted
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

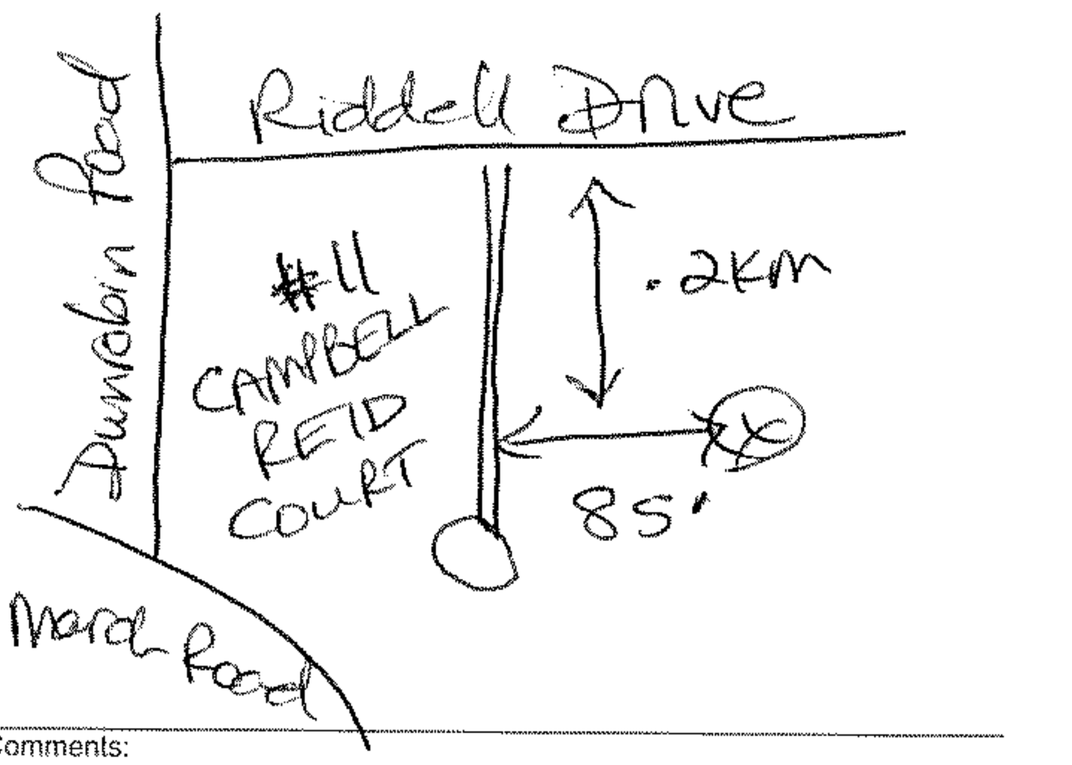
Well production (l/min / GPM)

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
A1 Rock Drilling Co LTD	1119

Business Address (Street Number/Name)	Municipality
RR#1	Richmond

Province	Postal Code	Business E-mail Address
ONT	K0A2Z0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Desaulniers, Ken

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T4		20160427

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		20160427

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Well Tag No. *(Place Sticker and/or Print Below)* N/A.

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
#11 Campbell Reid Court	West Carleton (March)	P/L 15	Con 4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Dunrobin	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	425120	5024949	RP-5R615	Part 1

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	6" Drilled Well Abandonment			0'	84'

*Henry Mains - Oct 23/85 - Audit 270186 - ATTACHED

*New 6" Drilled Well - TAG A199873 - APRIL 26/16
Audit - Z202778

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
84'	5'	3/8 Hole Plug	23 Bags
5'	0'	Backfill	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, *specify* Casing Rusted Potted
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

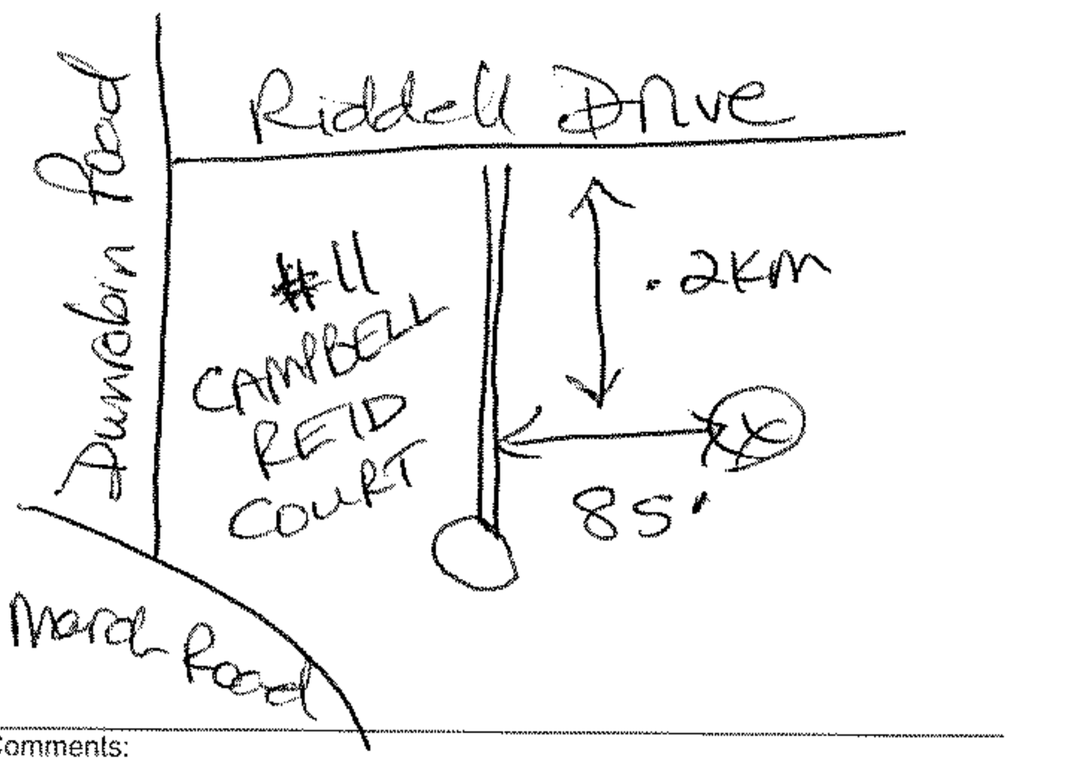
Well production (l/min / GPM)

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
A1 Rock Drilling Co LTD	1119

Business Address (Street Number/Name)	Municipality
RR#1	Richmond

Province	Postal Code	Business E-mail Address
ONT	K0A2Z0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Desaulniers, Ken

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T4		20160427

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		20160427

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Measurements recorded in: ☐ Metric ☒ Imperial

Tag#: A199873 *(Print Below)*

A199873

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
11 Campbell Reid Court	West Carleton (March)	P/L 15	4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Dunrobin	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	425117	5024942	RP-5R 615	Part 1

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Sand			0'	4'
Grey & Brown	Sandstone			4'	23'
Grey	Sandstone			23'	48'
Grey	Sandstone			48'	69'
Grey	Sandstone			69'	72'
Grey	Sandstone			72'	80'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20'	0'	Neat cement	7.8

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/4"	Steel	.188"	+2'	20'
6"	Open Hole		20'	80'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* **Not tested**

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 70

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 3.9'

If flowing give rate (l/min / GPM): X

Recommended pump depth (m/ft): 70'

Recommended pump rate (l/min / GPM): 20

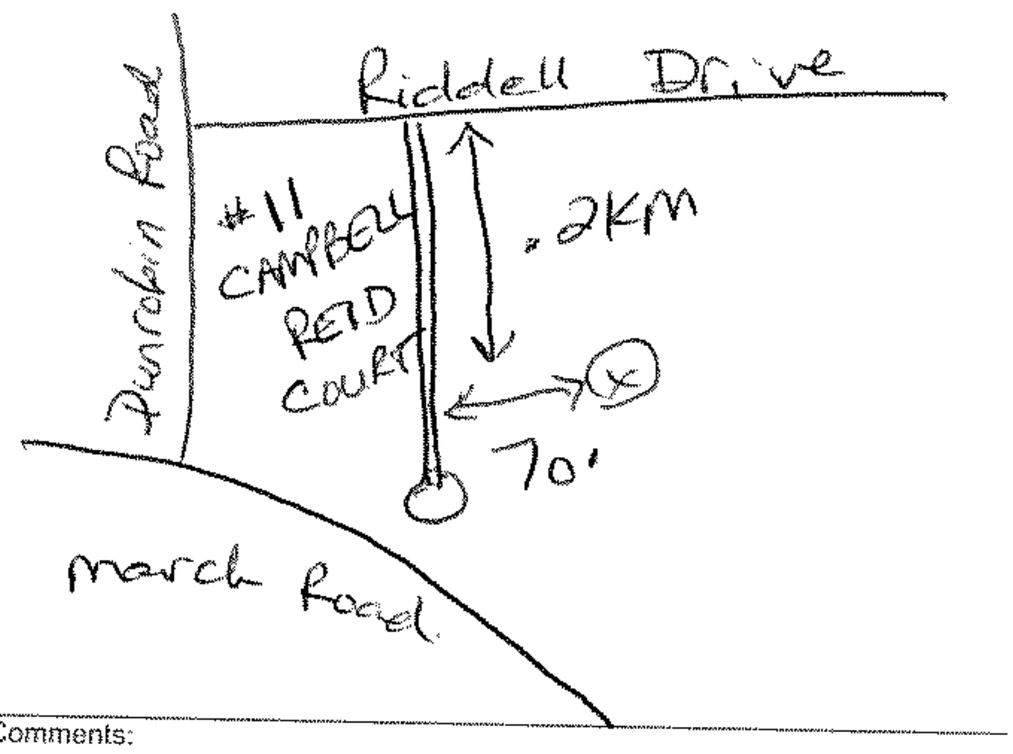
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	0.8"		3.9'
1	2.6	1	1.5
2	2.9	2	1.
3	3.1	3	0.8
4	3.2	4	0.8
5	3.3	5	0.8
10	3.4	10	0.8
15	3.5	15	0.8
20	36	20	0.8
25	3.6	25	0.8
30	3.7	30	0.8
40	3.8	40	0.8
50	3.9	50	0.8
60	3.9"	60	0.8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:
1/2 HP - 10 GPM SET @ 70 FT

Water Details

Water found at Depth	Kind of Water	Hole Diameter Depth From	Depth To	Diameter (cm/in)
48 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, *specify*			
69 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☒ Untested ☐ Other, *specify*	0	20	
72 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☒ Untested ☐ Other, *specify*	20	80	

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
8058 Frankltown Road, RR#1	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Hanna, Jeremy

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
13632		2016 04 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2016 04 27	2016 04 26

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Well Record

Regulation 903 Ontario Water Resources Act

Tag#: A135311 (Print Below) — A135311

Measurements recorded in: ☐ Metric ☒ Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Klinger Homes		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
176 Loreka Court	Stittsville	ON	K2S 0N3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1535 Monaghan Lane	March	15	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Kanata	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	421847	5024749	4M-829	S/L 18

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Sand	& Fill		0'	7'
Grey & White	Sandstone			7'	70'
Grey & White	Sandstone			70'	80'

X HO - FRANCOIS POIRIER

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/imp gal)
20'	0'	Neat cement	12.5

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/4"	Steel	188"	+2'	20'
6 1/8"	Open Hole		20'	80'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Other, specify
70 (m/ft) ☐ Gas	☐ Fresh ☒ Untested	Y
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
3'	20'	9 3/4"
20'	80'	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify — Not tested

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 70

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 10'

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 70'

Recommended pump rate (l/min / GPM): 20

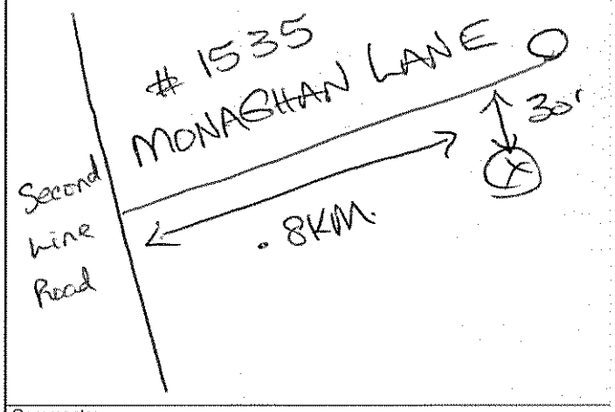
Well production (l/min / GPM): 20+

Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level		9.6'		10'
1		9.7	1	9.6
2		9.7	2	9.6
3		9.7	3	9.6
4		9.7	4	9.6
5		9.7	5	9.6
10		9.8	10	9.6
15		9.8	15	9.6
20		9.9	20	9.6
25		9.9	25	9.6
30		9.9	30	9.6
40		9.9	40	9.6
50		10	50	9.6
60		10'	60	9.6"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:
1/2 HP - 10 GPM SET @ 70 FT

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
6659 Franktown Road, RR#1	Richmond	ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6138982170	Hanna, Jeremy	T3632		2013 09 30

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2013 09 03	2013 08 29

Ministry Use Only
Audit No. Z 155220
Received NOV 12 2013

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Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 1533821

Municipality 15006 Con. CON 03

County or District: OTTAWA-CARLETON

Township/Borough/City/Town/Village: KANATA (TWP OF MARCH)

Con block tract survey, etc.: CONCESSION 3

Lot: 16

Address: 1625 Dunrobin Rd, Kanata, Ont

Date completed: 02 04 03 (day month year)

21 UTM Northing RC Elevation RC Basin Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Well used as road for ease of access to 6" dug well.				

31

32

41 WATER RECORD

Water found at - feet	Kind of water
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6"	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		0	75.
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Slots of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	75	Holeplug cement grout (3 bags)
		(20 x 50#)

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer

Pumping rate: GPM

Duration of pumping: Hours Mins

Static level: 16 feet

Water level end of pumping: feet

Water levels during: 1 ☐ Pumping 2 ☐ Recovery

15 minutes: feet

30 minutes: feet

45 minutes: feet

60 minutes: feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☐ Cloudy

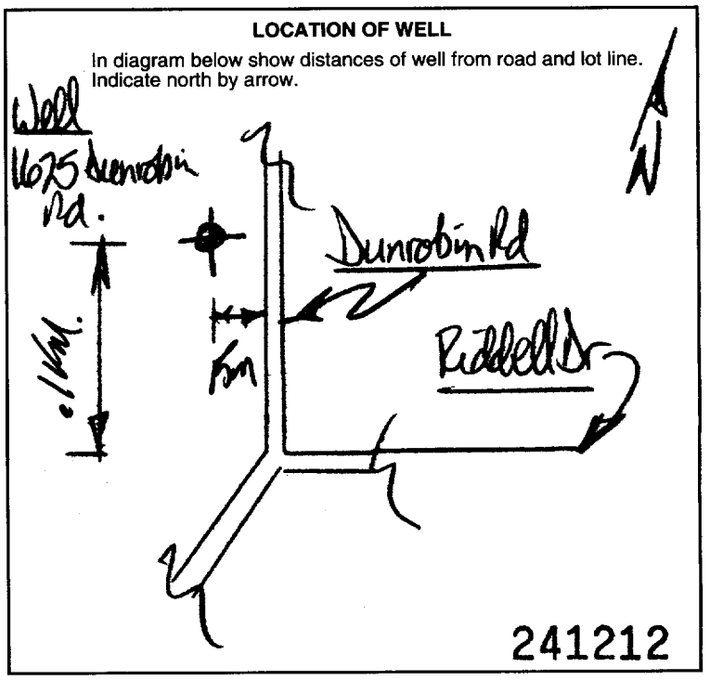
Recommended pump type: ☐ Shallow ☐ Deep

Recommended pump setting: feet

Recommended pump rate: GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



241212

FINAL STATUS OF WELL

1 ☐ Water supply
2 ☐ Observation well
3 ☐ Test hole
4 ☐ Recharge well
5 ☐ Abandoned, insufficient supply
6 ☒ Abandoned, poor quality
7 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

WATER USE

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☐ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☒ Not use
10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☐ Rotary (air)
5 ☐ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☐ Other

Name of Well Contractor: STANTON DRILLING INC. — Well Contractor's Licence No.: 4875

Address: BOX 219, Pakenham, Ont. K0A2X0

Name of Well Technician: Peter Stanton — Well Technician's Licence No.: T-0886

Signature of Technician/Contractor — Submission date: day 04 month 06 03

MINISTRY USE ONLY

Data source — Contractor: 4875 — Date received: JUN 04 2003

Date of inspection — Inspector

Remarks

CSS.ES3

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11 1520307 MUNICIP CON.

COUNTY OR DISTRICT: Carleton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata | CON., BLOCK, TRACT, SURVEY, ETC.: Con 4 | LOT: 15

[redacted] RR#1, Kanata K2K 1X7

DATE COMPLETED: DAY 28 MO 10 YR 85

RC | ELEVATION | RC | BASIN CODE | II | III | IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	2
grey	sandstone			2	63

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
58	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	22
6	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		22	63
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
		cement grouted

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	14 GPM	1 HOURS 0 MINS

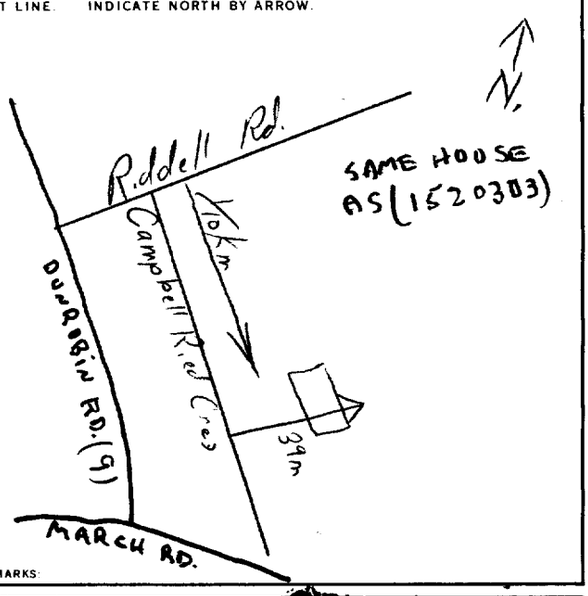
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
15 FEET	50 FEET		50 FEET	50 FEET	50 FEET	50 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	50 FEET	10 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☒ RECHARGE WELL

WATER USE

1 ☒ DOMESTIC 5 ☐ COMMERCIAL
2 ☐ STOCK 6 ☐ MUNICIPAL
3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING
☐ OTHER 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 6 ☐ BORING
2 ☐ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE) 8 ☐ JETTING
4 ☐ ROTARY (AIR) 9 ☐ DRIVING
5 ☒ AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling | LICENCE NUMBER: 3644
ADDRESS: Box 326, Richmond Ont.
NAME OF DRILLER OR BORER: Henry Mains | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 29 MO 10 YR 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 27 01 86
DATE OF INSPECTION | INSPECTOR
REMARKS

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Ontario

7

The Ontario Water Resources Act

WATER WELL RECORD

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11 1520303

MUNICIP | CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT	DATE COMPLETED
Carleton	Kanata	Con 4,	15	DAY 28 MO 10 YR 85

[redacted] Ph 1, Kanata K2K 1X7

RC | ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	6
grey	sandstone			6	84

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
60	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
79	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	.188	0	22
6	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		22	84
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	Cement grouted
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	20 GPM	1 HOURS 0 MINS

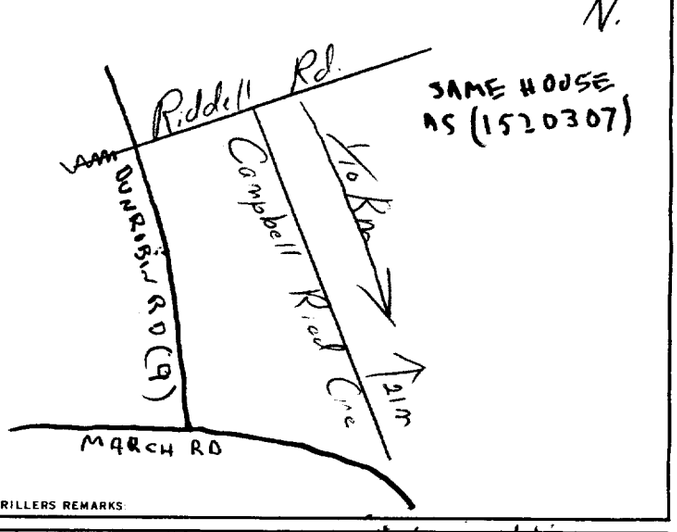
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
23 FEET	60 FEET		60 FEET	60 FEET	60 FEET	60 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	60 FEET	15 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE

1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☒ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Henry Mains Well Drilling	3644
ADDRESS Box 326 Richmond Ont.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
[signature]	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE DAY 29 MO 10 YR 85
[signature]	

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		27 01 86
DATE OF INSPECTION	INSPECTOR	
REMARKS		

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MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 11514694 | MUNICIP. 15006 | CON. CON | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	[redacted]	3	016

DATE COMPLETED: DAY 08 MO 05 YR 75

[redacted] Tybalt Cres. Ottawa, Ontario

UTM 24580 4 03021 4 26 | ELEVATION | SOURCE CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand			0	2
grey	sandstone		hard	2	30
white	sandstone			30	73

31 | 0002628 | 0302187 3 | 0073118

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0068	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL	188	0	0026
05	4 ☒ OPEN HOLE		26	73
06	4 ☒ OPEN HOLE			0073
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0010 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	040 FEET	1 ☒ PUMPING 2 ☐ RECOVERY	040 FEET	040 FEET	040 FEET	040 FEET

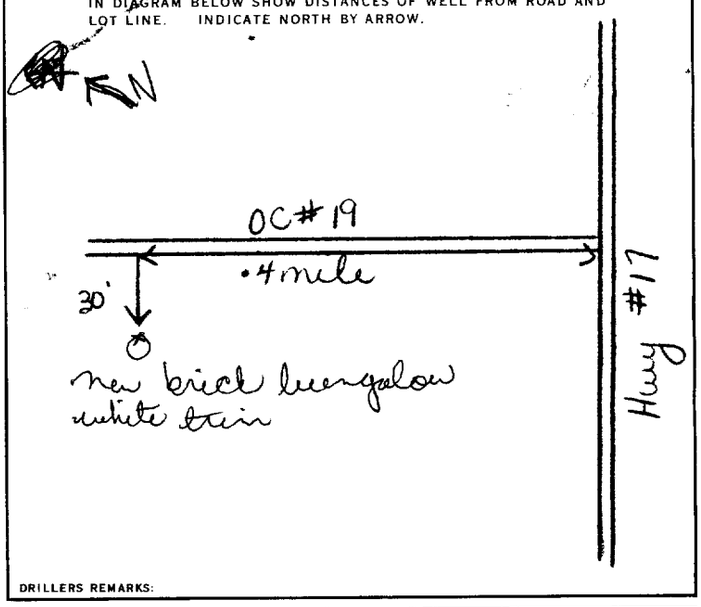
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	050 FEET	0005 GPM.

50-53 ___ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE 55-56 01: 1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED

METHOD OF DRILLING 57 5: 1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☒ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. | LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittsville, Ontario

NAME OF DRILLER OR BORER: M. Hamilton | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 9 MO. 5 YR. 75

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 1558 | DATE RECEIVED 63-68: 05 06 75

DATE OF INSPECTION: 10/6/77 | INSPECTOR: R. Hobby

REMARKS:

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3 19/52

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11 | 1513876 | MUNICIP. 1,5006 | CON. Con IV

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
Carlton	March 3 9	IV	015

[redacted] R1 Kanata Ont

DATE COMPLETED: DAY 13 MO 11 YR 75

LIC.	BC	ELEVATION	RC	BASIN CODE	II	III	IV
024772	4	300	4	26	JAN 12, 1975		44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
~~Top~~					
Brown	Sandstone			0	84

31 00884618

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
080	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	0	0	028
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		20	~~028~~ 0084
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER — PUMPING RATE: ~~000~~ GPM — DURATION OF PUMPING: 01 HOURS 00 MINS

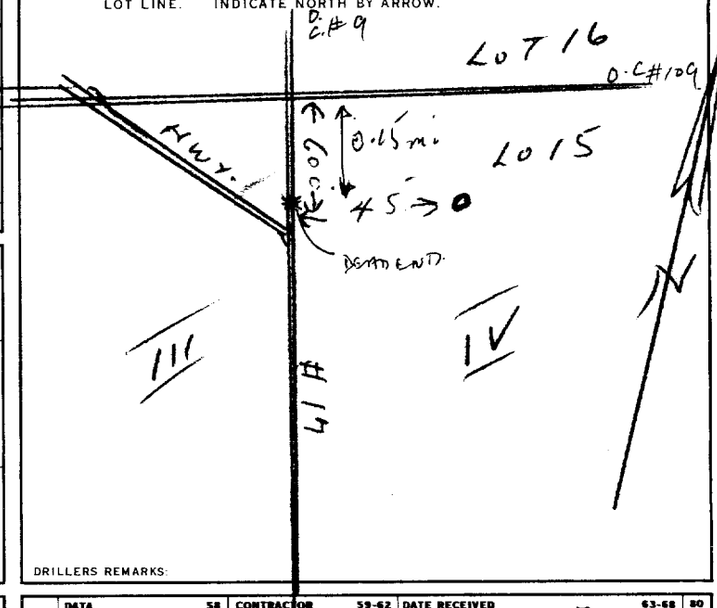
STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING: 1 ☒ PUMPING	15 MINUTES FEET	30 MINUTES FEET	45 MINUTES FEET	60 MINUTES FEET
002	~~000~~		002	002	002	002

IF FLOWING, GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
	50	

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
☐ SHALLOW ☒ DEEP	050	0010

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: George H Lawson — LICENCE NUMBER: 3323

ADDRESS: Calabogie Ont

NAME OF DRILLER OR BORER: Alf Lawson — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: G H Lawson — SUBMISSION DATE: DAY 31 MO 01 YR 74

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 3323 — DATE RECEIVED: 080274

DATE OF INSPECTION: — INSPECTOR: J.A.

REMARKS: P-R

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3141 5d

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1513750 | MUNICIP. 15006 | CON. CON | 103

COUNTY OR DISTRICT: Carleton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March | CON., BLOCK, TRACT, SURVEY, ETC.: 3 | LOT: 015

[redacted]

DATE COMPLETED: DAY 15 MO. 01 YR. 74

RC. 024504 | RC. 4 | ELEVATION 303 | RC. 4 | BASIN CODE 26 | JAN 12, 1975 | 44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Clay		Top Soil	0	4
Grey	Sandstone		Med hard	4	125

31 0001460502 | 0125211 8

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0000	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
0125	1 ☐ FRESH 3 ☐ SULPHUR 2 ☒ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE	.188	0	18
06	4 ☒ OPEN HOLE		18	125

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE: 0000 GPM | DURATION OF PUMPING: HOURS MINS

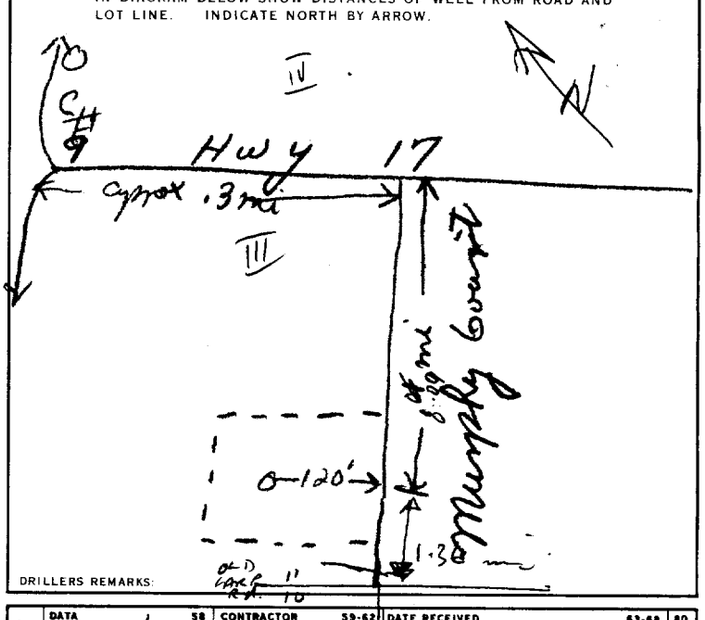
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
011 FEET	190 FEET		110 FEET	110 FEET	110 FEET	110 FEET

IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: 110 FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 110 FEET | RECOMMENDED PUMPING RATE: 005 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Maple Leaf Drilling | LICENCE NUMBER: 3658

ADDRESS: 409-465 Richmond Rd

NAME OF DRILLER OR BORER: Robert Bisson | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Robert Bisson | SUBMISSION DATE: DAY MO. YR.

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3658 | DATE RECEIVED 110274

DATE OF INSPECTION | INSPECTOR K P-R

REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

The Ontario Water Resources Commission Act

WATER WELL RECORD

315 5d

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
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11 | 1511129 | MUNICIP. 1,5906 | CON. C&W | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	III	015

[redacted] uth March, Ont. (Kennedy's Corner)

DATE COMPLETED: DAY 28 MO. ~~Apr.~~ 04 YR. 71

UTM | RC. 4 | ELEVATION 0305 | RC. 5 | BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
	sandstone			0	77

31 | 0077 | 18

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0055 ~~55-95~~	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0	~~27~~ 0017
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0077
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0013 GPM.	01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	042 FEET	010 FEET	010 FEET	~~010~~ FEET	~~010~~ FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

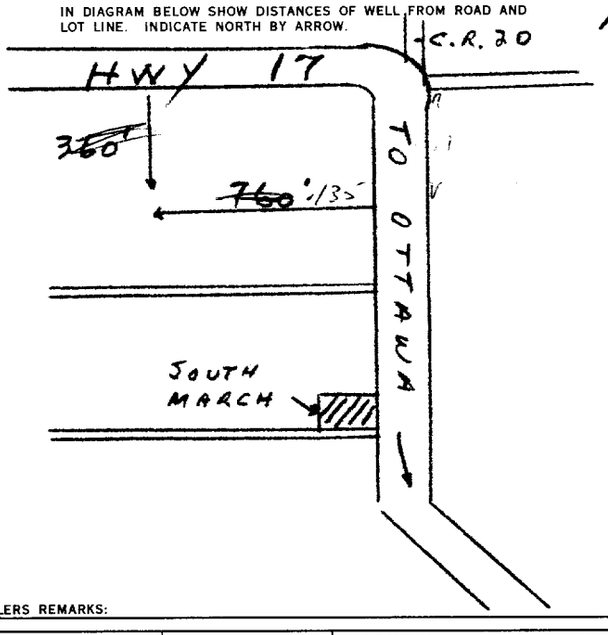
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
~~XXX~~ SHALLOW ☒ DEEP	090 FEET	0010 GPM.

50-53 0004 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

N

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☐ RECHARGE WELL

WATER USE 02

1 ☐ DOMESTIC 5 ☐ COMMERCIAL
2 ☒ STOCK 6 ☐ MUNICIPAL
3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING
☐ OTHER 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 6 ☐ BORING
2 ☐ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE) 8 ☐ JETTING
4 ☒ ROTARY (AIR) 9 ☐ DRIVING
5 ☐ AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: J.B. DUFRESNE & CO. LIMITED — LICENCE NUMBER: 1802

ADDRESS: 1014 Maitland Ave., Ottawa 5, Ont.

NAME OF DRILLER OR BORER: R. Laniel — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: R. Laniel

SUBMISSION DATE: DAY 28 MO. 4 YR. 71

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1802 | DATE RECEIVED 060571

DATE OF INSPECTION | INSPECTOR

REMARKS: P WI

OWRC COPY

The Ontario Water Resources Commission Act

WATER WELL RECORD

3195d

Water management in Ontario

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11 (1 2) | 1511125 | MUNICIP. 1500G (10 14) | CON. GON (15 22 23 24) | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	III	015

[redacted] uth March, Ont. (Kennedy's Corner

DATE COMPLETED: DAY 16 MO. ~~Apr.~~ 04 YR. 71

UTM 0246 10 (24) | RC 4 (25) | ELEVATION 0305 (26) | RC 5 (30) | BASIN CODE 25 (31)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
	soil - fill			0	2
	sandstone			2	80

31: 0002 0201 0080 118

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0048 (48-76)	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(15-18)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(20-23)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(25-28)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
(30-33)	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06 (10-11)	1 ☒ STEEL (12) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0	~~20~~ 0020 (13-16)
(17-18)	1 ☐ STEEL (19) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0080 (20-23)
(24-25)	1 ☐ STEEL (26) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			(27-30)

SCREEN

SIZE(S) OF OPENING (SLOT NO.) (31-33)	DIAMETER INCHES (34-38)	LENGTH FEET (39-40)
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET (41-44)	80

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
(10-13)	(14-17)		
(18-21)	(22-25)		
(26-29)	(30-33)	80	

71 PUMPING TEST

PUMPING TEST METHOD (10)	PUMPING RATE (11-14)	DURATION OF PUMPING (15-16 HOURS, 17-18 MINS.)
1 ☒ PUMP 2 ☐ BAILER	0015 GPM.	01 HOURS 00 MINS.

STATIC LEVEL (19-21)	WATER LEVEL END OF PUMPING (22-24)	WATER LEVELS DURING (25) 1 ☐ PUMPING 2 ☒ RECOVERY	15 MINUTES (26-28)	30 MINUTES (29-31)	45 MINUTES (32-34)	60 MINUTES (35-37)
003 FEET	056 FEET		003 FEET	~~003~~ 003 FEET	~~003~~ 003 FEET	~~003~~ 003 FEET

IF FLOWING, GIVE RATE (38-41)	PUMP INTAKE SET AT	WATER AT END OF TEST (42)
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

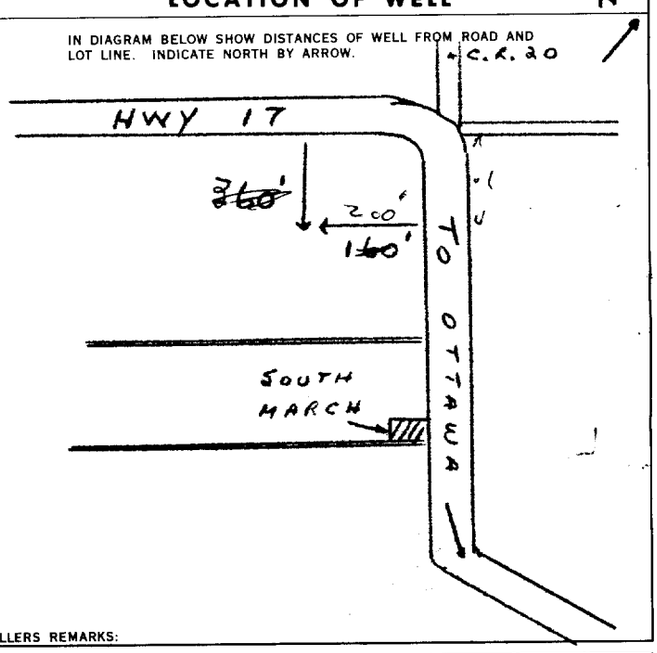
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING (43-45)	RECOMMENDED PUMPING RATE (46-49)
☒ SHALLOW ☐ DEEP	030 FEET	0005 GPM.

(50-53) 000.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

N

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING (57)

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: J.B. DUFRESNE & CO. LIMITED — LICENCE NUMBER: 1802

ADDRESS: 1014 Maitland Ave., Ottawa 5, Ont.

NAME OF DRILLER OR BORER: R. Lauriel — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature]

SUBMISSION DATE: DAY 16 MO. 4 YR. 71

OFFICE USE ONLY

DATA SOURCE (58): 1 — CONTRACTOR (59-62): 1802 — DATE RECEIVED (63-68): 290471 — 80

DATE OF INSPECTION — INSPECTOR: Hun

REMARKS:

P K

WI

OWRC COPY

3165d

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1511038 | MUNICIP. 15096 | CON. C&N | 03

COUNTY OR DISTRICT: CARLETON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: MARCH TWP. SOUTH MARCH ONT.

CON. BLOCK, TRACT, SURVEY, ETC.: CON 3

LOT: ~~014~~ 015

DATE COMPLETED: DAY 28 MO. 08 YR. 70

UTM: 0246600 | RC. 4 | ELEVATION: 03100 | RC. 4 | BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
		PREVIOUSLY DRILLED		0	51
WHITE	SANDSTONE	PARTICLES OF SHALE & LIMESTONE	SOFT DRILLING	51	80

31: 0051 24 | 0088 1181715

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0088	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		0	0051 ~~51~~
02	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		51	0088 ~~88~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0004 GPM. | DURATION OF PUMPING: 03 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
015 FEET	024 FEET	024 FEET	024 FEET	024 FEET	024 FEET

1 ☒ PUMPING 2 ☐ RECOVERY

IF FLOWING, GIVE RATE: GPM.

PUMP INTAKE SET AT: 41 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP

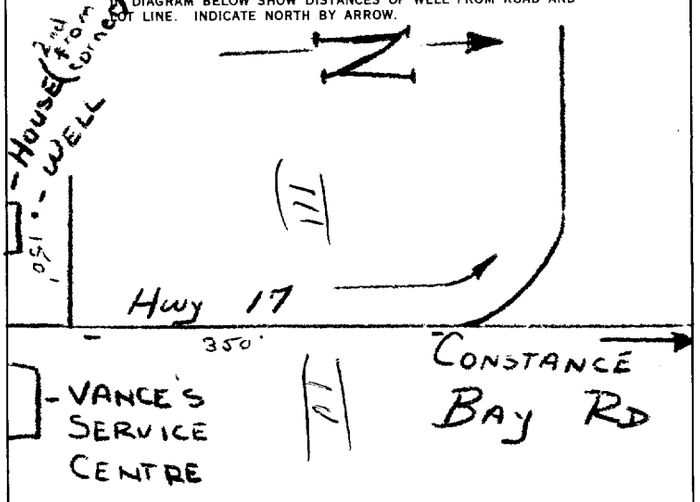
RECOMMENDED PUMP SETTING: 041 FEET

RECOMMENDED PUMPING RATE: 0004 GPM.

50-53: 0004 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☒ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: W.A. DEEVY | LICENCE NUMBER: 1703

ADDRESS: 2898 HAUGHTON ST.

NAME OF DRILLER OR BORER: W.A. DEEVY | LICENCE NUMBER: 1703

SIGNATURE OF CONTRACTOR: W.A. Deevy | SUBMISSION DATE: DAY 21 MO. 08 YR. 70

OWRC COPY

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1703 | DATE RECEIVED: 270171

DATE OF INSPECTION | INSPECTOR

REMARKS: P Kim. WI Km

41

UTM 18 Z 4215010 E

5 R 5012510 N

Elev. 5 R 02910

Basin 25

3165e

GROUND WATER BRANCH
15 No 3417
JUN 1 1962
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, ~~Village, Town or City~~ March

Con. 4 Lot 16 Date completed 21 (day) Mar (month) 62 (year)

[redacted] dress Dunrobin

Casing and Screen Record

Inside diameter of casing 4"

Total length of casing 14'

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole — 4"

Pumping Test

Static level 12

Test-pumping rate 5 G.P.M.

Pumping level 14'

Duration of test pumping 1 hr.

Water clear or cloudy at end of test clearing

Recommended pumping rate 4 G.P.M.

with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft	To ft	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
clay	0	8		
sandstone	8	63	55	fresh

For what purpose(s) is the water to be used? house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm Ben E Sparks

Address

Licence Number 700

Name of Driller or Borer Ben Elgersma

Address 413 Edgeworth

Date May 28/62

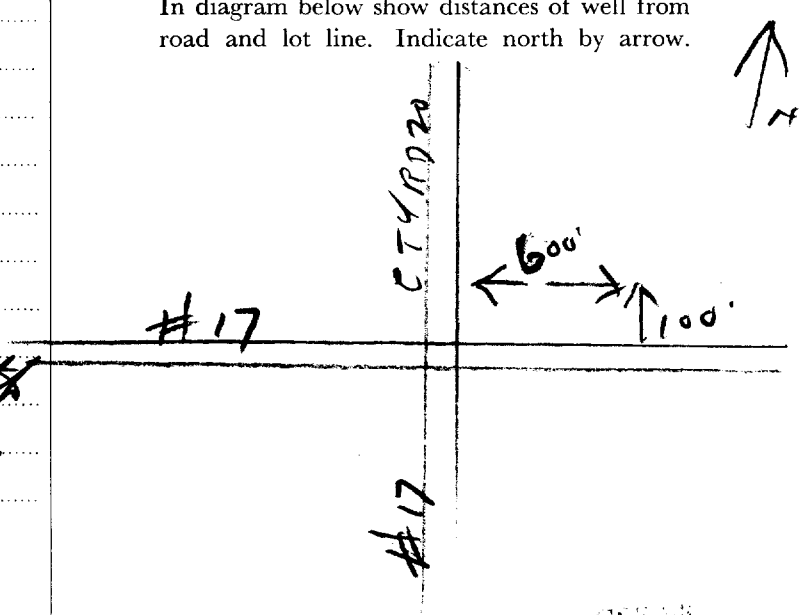
Ben E Sparks
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



UTM 18 412490 E
15 502490 N
Elev. 4 03010
Basin 25

3165e

GROUND WATER BRANCH
15 No 3426
SEP 3 1959
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District CARLETON Township, Village, Town or City MARCH

[redacted] completed 26 (day) MAY (month) 59 (year)

[redacted]ress 435 PRESTON ST

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 10'
Type of screen —
Length of screen —
Depth to top of screen —
Diameter of finished hole 4"

Pumping Test

Static level 9
Test-pumping rate 5 G.P.M.
Pumping level 9
Duration of test pumping 1 HR
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 5 G.P.M.
with pumping level of 9

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
CLAY LOAM	0	1			
LIMESTONE	1	70	70	61	FRESH

Water Record

For what purpose(s) is the water to be used?
HOUSE

Is well on upland, in valley, or on hillside? ✓

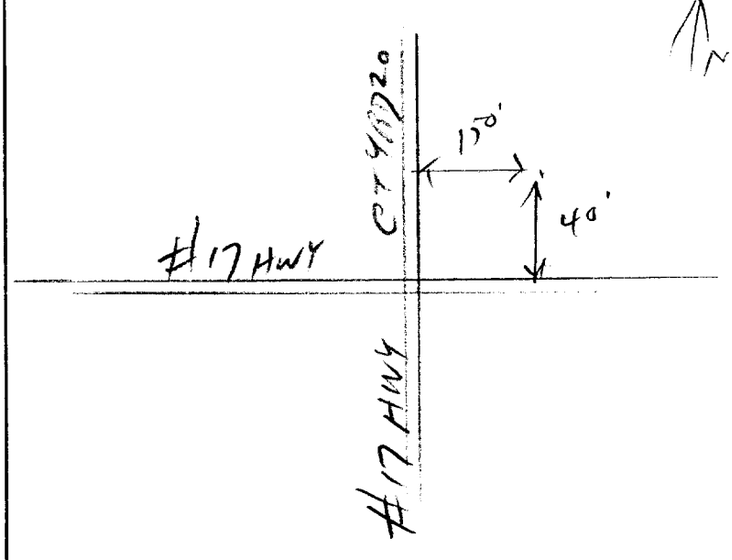
Drilling Firm M. MEAGHER
Address OTTAWA

Licence Number 249
Name of Driller SAME
Address
Date AUG 31/59

M. Meagher
(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5
15M-58-4149

UTM 18 Z 421491010 E
15 R 5012141960 N
Elev. 4 R 03010
Basin 25

31G5e

GROUND WATER BRANCH No. 15 3114
MAR 16 1959
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District CARLETON Township, Village, Town or City KANATA

[redacted] 4 [redacted] 16

Date completed 1 (day) MAR (month) 59 (year)

Address DUNROBIN

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 16'
Type of screen NO
Length of screen —
Depth to top of screen —
Diameter of finished hole 4"

Pumping Test

Static level 18
Test-pumping rate 5 G.P.M.
Pumping level 18
Duration of test pumping 1 HR
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 3 G.P.M.
with pumping level of 18

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
SANDSTONE	0	56	56	38	FRESH

Water Record

For what purpose(s) is the water to be used?
HOUSE

Is well on upland, in valley, or on hillside?

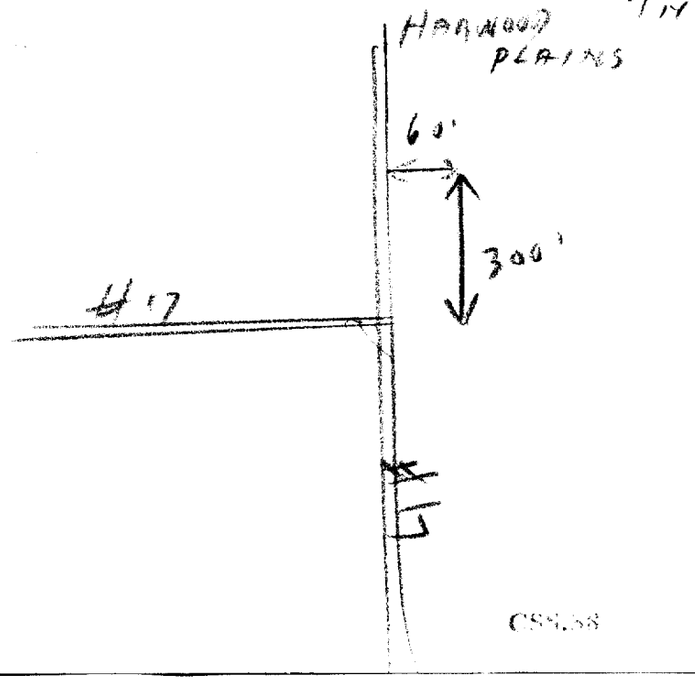
Drilling Firm J J MEAGHER
Address 639 ROWANWOOD OTTAWA

Licence Number
Name of Driller JAMIE
Address
Date MAR 3/59

(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5
15M-58-4149

UTM | 18 | Z | 4215014 0 | E
| 5 | R | 5021491 0 | N
Elev. | 4 | R | 03 010
Basin | 25 | | | |

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

3165e

15 No 3123

GROUND WATER BRANCH
MAY 23 1958
ONTARIO WATER RESOURCES COMMISSION

Water-Well Record

County or Territorial District CARLETON Township, Village, Town or City MARCH

[redacted] in Village, Town or City)

Address

(day) (month) (year)

Pipe and Casing Record

Casing diameter(s) 5 INCH
Length(s) 14 FEET
Type of screen NONE
Length of screen

Pumping Test

Static level 14 FEET
Pumping rate 350 GPH
Pumping level 35'
Duration of test 1 HOUR

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
SILT	0	2	50	30	FRESH
SANDSTONE	2	100	100	86	"

Water Record

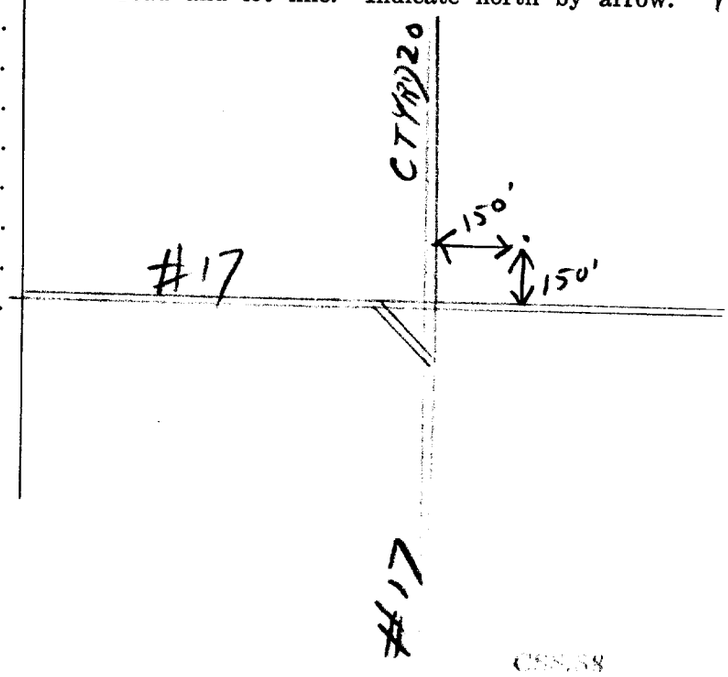
For what purpose(s) is the water to be used? HOUSE
Is water clear or cloudy? CLEAR
Is well on upland, in valley, or on hillside? UPLAND
Drilling firm McGINNEY
Address
Name of Driller J. W. ADAMS
Address
Licence Number

I certify that the foregoing statements of fact are true.

Date March 2/58 J. W. McGinney
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5

1.7

APL

UTM 18 425040 E
5 R 5024960 N

31G Se

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
SEP 13 1962
ONTARIO WATER RESOURCES COMMISSION

Elev. 4 R 0290

Basin 25

County or District CARLETON Township, Village, Town or City MARCH

Con. IV Lot 15 Date completed 10 August 1962 (day month year)

Owner [redacted] Dunrobin
(print in block letters) RR# 1

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 9'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

Pumping Test

Static level 12'

Test-pumping rate 30 G.P.M.

Pumping level 15'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 30 G.P.M.

with pump setting of 20' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
OVERBURDEN	0'	1'		
HARD GREY LIMESTONE	1'	160'	90'	fresh

For what purpose(s) is the water to be used?

New School

Is well on upland, in valley, or on hillside? Upland

Drilling or Boring Firm

BLAIR PHILLIPS DRILLING CO. LTD.

Address 1119 Balaise Road, Ottawa 5, Ontario

Licence Number 474

Name of Driller or Borer M. Sztepa

Address 90 Greve Ave. Ottawa

Date 22 August 1962

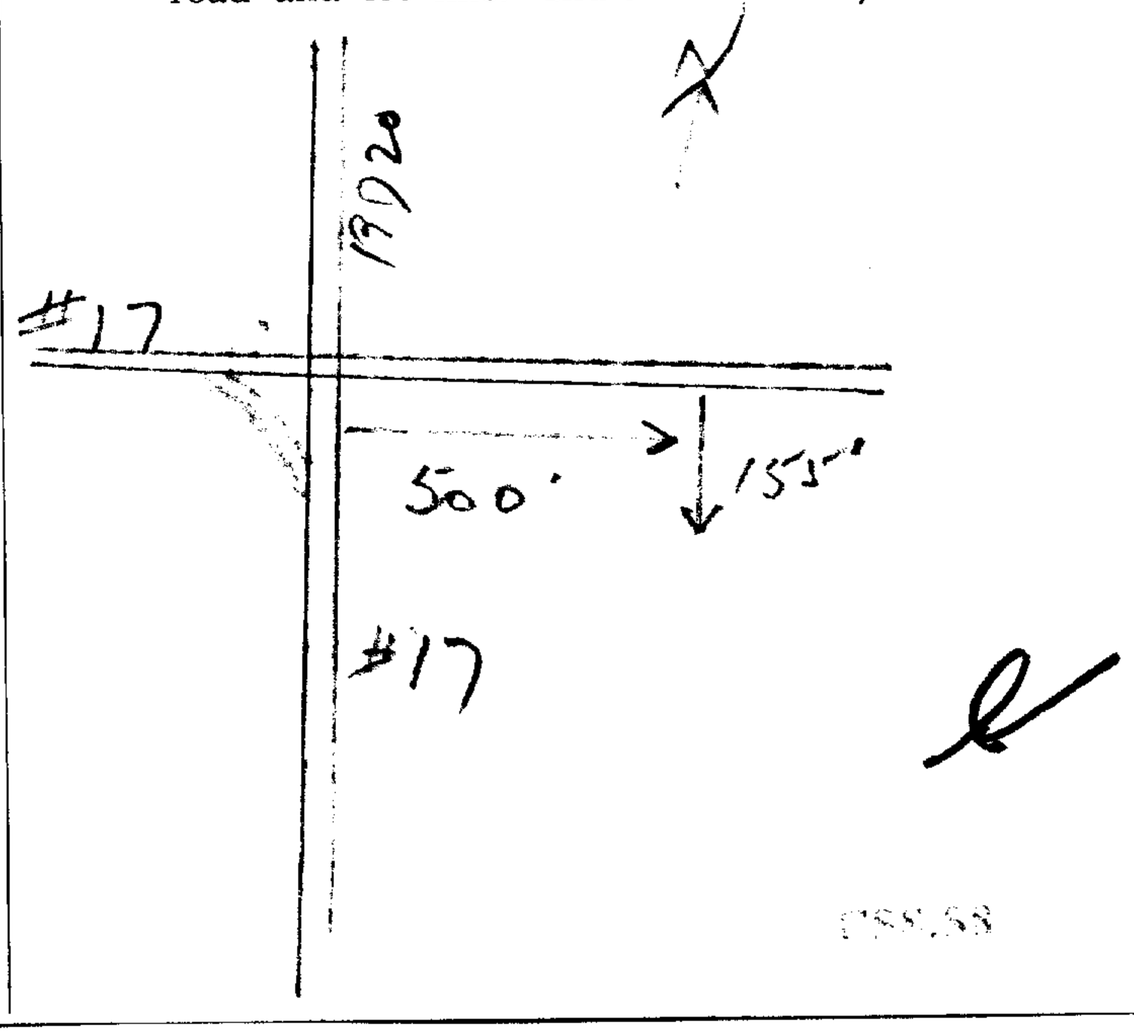
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M-61-3852

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



#16

UTM 18 Z 425130 E
15 R 5024660 N

Elev. 4 R 0300

Basin 25

31G5d

GROUND WATER BRANCH
JUL 15 1962
No.
ONTARIO WATER RESOURCES COMMISSION

C

3118

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton

Township, ~~Village, Town or City~~ March

Con. 4 Lot 15

Date completed 21 (day) May (month) 62 (year)

[redacted] dress South March

Casing and Screen Record

Inside diameter of casing 4

Total length of casing 12

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 4"

Pumping Test

Static level 8

Test-pumping rate 6 G.P.M.

Pumping level 12

Duration of test pumping 1 hr.

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft	To	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay loam	0	2		
sandstone	2	40	38	fresh

For what purpose(s) is the water to be used? house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm Ben Edgeworth

Address

Licence Number 700

Name of Driller or Borer Ben Edgeworth

Address 413 Edgeworth

Date May 28/62

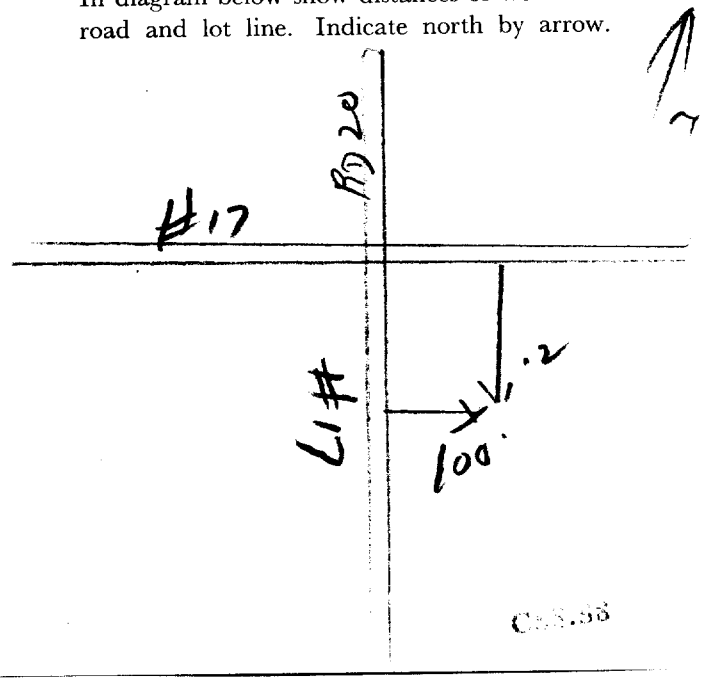
(Signature of Licensed Driller or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



292

UTM 18 Z 425000 E
5 R 5024730 N

Elev. 403 00

Basin 25

31G5d

The Ontario Water Resources Commission Act, 1957

GROUND WATER BRANCH No. 3306
DEC 6 1960
ONTARIO WATER RESOURCES COMMISSION

WATER WELL RECORD

County or District Carleton Township, Village, Town or City March

Con 3 Lot PT-15 Date completed 17 (day) Sept (month) 60 (year)

[redacted] ress South March

Casing and Screen Record

Inside diameter of casing 2

Total length of casing 17

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 2

Pumping Test

Static level 7

Test-pumping rate 12 G.P.M.

Pumping level 30

Duration of test pumping 2 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

~~with pumping level~~ at of 30

Well Log

Overburden and Bedrock Record	From ft.	To ft.
Clay	0	1
Sand stone	1	60

Water Record

Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
60	5-1	Fresh

For what purpose(s) is the water to be used?

Bloe Roof New House

Is well on upland, in valley, or on hillside?

Drilling Firm E. R. Corrette

Address Ottawa

Licence Number H57

Name of Driller Same

Address

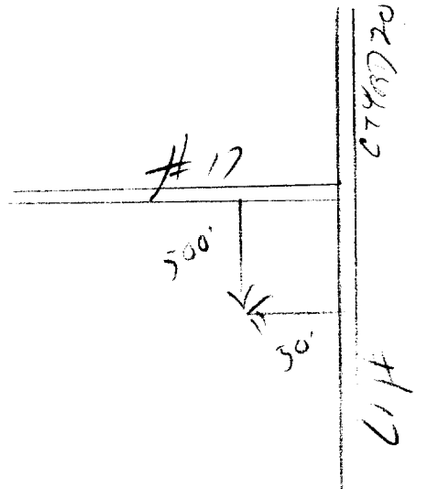
Date Nov 28 - 60

E. R. Corrette

(Signature of Licensed Drilling Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



UTM 18 425018 E
9 5021414715 N
Elev. 9 03101
Basin 25

3. 31G5d

ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario

RECEIVED
NOV 20 1949
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

15 No. 4

Gen - III
Lot - 15

Water Well Record

[redacted] March Con. 3 Lot 15 Rr. Lot
South Indoh Acres
Date Completed [illegible] Cost of Well (not including pump) 175-50

Pipe and Casing Record

Casing diameter(s) 5"
Length(s) of casing(s) 1 X 8'
Length of screen Nil
Type of screen
Type of pump
Capacity of pump
Depth of pump setting

Pumping Test

Date
Developed Capacity
Duration of Test
Pumping Rate
Drawdown
Static level of completed well 17 feet
Is well a gravel-wall type? No

Water Record

Kind (fresh or mineral) Fresh
Quality (hard, soft, contains iron, sulphur etc.) Hard
Appearance (clear, cloudy, coloured) Clear
For what purpose(s) is the water to be used? Watering Cattle
How far is well from possible source of contamination? 100'
What is source of contamination? Stable
Enclose a copy of any mineral analysis that has been made of water

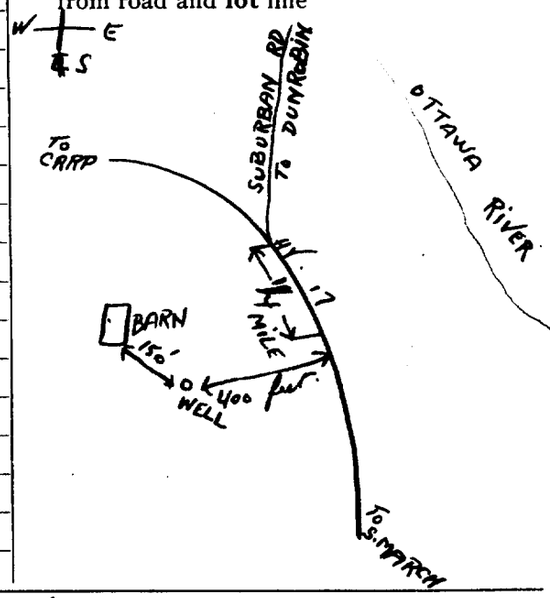
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
52		35'

Well Log

Drift and Bedrock Record	From	To
	0 ft.	ft.
Sandstone	1	54

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? Upland
Drilling Firm Blair Phillips
Address 614 Gilmour St Ottawa
Recorded by Blair Phillips Address 614 Gilmour St
Date 3 Sept 49 Licence Number 407

APPENDIX I

Site Photographs

Photograph Plate I1: Western portion of the subject property.

Photograph Plate I2: Anticipated fill material on the subject property.

Photograpgh Plate I3: Septic Tank location (with vent pipes)

Photograph Plate I4: Debris closer to the septic tank

Photograph Plate I5: Chicken coop

Photograph Plate I6: Eastern portion of the subject property including the driveway

Photograpgh Plate I7: Inside view of the building

Photograpgh I8: Inside view of the basement

Photograph Plate I9: Water well on the subject property

APPENDIX J

HLUI

File Number: D06-03-21-0163

November 8, 2021

Mohit Bhargav
Gemtec Consulting
32 Steacie Drive, Ottawa

*Sent via email [*mohit.bhargav@gemtc.ca*]*

Dear Mr. Bhargav,

Re: Information Request
4 Campbell Road**, Ottawa, Ontario ("Subject Property")**

Internal Department Circulation

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

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

Documents Provided:

Excel

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

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

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

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

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

If you have any further questions or comments, please contact Jonathan Katsouleas at 613-580-2424 ext. 23601 or HLUI@ottawa.ca

Sincerely,

Jonathan Katsouleas

Per:

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

MB / JK

Enclosures.

1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-21-0163

APPENDIX K

Correspondance Responses

GEMTEC
Consulting Engineers and Scientists

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive 613.836.1422
Ottawa, ON, Canada ottawa@gemtec.ca
K2K 2A9 www.gemtec.ca

December 22, 2022 File: 65103.01

Dr. Andrzej Olender
1405 Houston Crescent
Ottawa, Ontario
K2W 1B6

Attention: Dr. Andrzei Olender,

Re: Hydrogeologic Investigation & Terrain Analysis Responses
4 Campbell Reid Court
Ottawa, Ontario

1. Engineering

Hydrogeological Investigation & Terrain Analysis, prepared by Gemtec, dated October 18, 2022.

29. Please note that the new City of Ottawa 'Hydrogeological and Terrain Analysis Guidelines (March 2021)' now include additional testing parameters. Has this new guideline been referenced for this report?

It is assumed that this is in reference to VOC testing, which was addressed in the Phase 2 ESA. PW4 was sampled for additional parameters: VOCs, PHCs and PAHs. No detectable concentrations of VOCs, PHCS or PAHs were reported in PW4, and are within ODWQS guidelines (where applicable). The hydrogeological investigation report will be updated with the Phase 2 ESA data.

30. (Page 21 of 125) The report recommends that the applicant retain the services of a water quality treatment specialist to determine the treatment options for both the residential and commercial sites. Has this been done?

The applicant has not retained the services of a water quality treatment specialist but has indicated that the well water will only be used for the plumbing system and potable water will be provided for drinking water.

31. Section 6.2.1 'Water Supply Recommendations' state that well PW4 be abandoned in accordance with O.Reg 903; or receive written permission from the MECP to continue in use. Which option will be pursued?

The applicant will be seeking written permission from the MECP to continue using PW4. If written permission is not granted, PW4 will be abandoned.

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive 613.836.1422
Ottawa, ON, Canada ottawa@gemtec.ca
K2K 2A9 www.gemtec.ca

32. As the groundwater is non-potable due to the health-related maximum acceptable concentration exceedance for strontium and untreated water should not be consumed, please provide recommended treatment options for both the residential and commercial buildings, from a water quality treatment specialist, as recommended in the report. Contact the City's Hydrogeology staff to discuss options. The water is not acceptable in accordance with the requirements of the Hydrogeological and Terrain Analysis Guidelines and ODWQS D-5-5.

The applicant will be using well water for plumbing systems only and potable water will be provided for drinking water in both the existing residential and proposed commercial building.

Strontium is a metal that can be found naturally in groundwater, but can also be related to human activity such as mining and manufacturing operations. Based on the rural residential setting, strontium is likely naturally occurring. Strontium does not have a maximum acceptable concentration (MAC) under the Ontario Drinking Water Standards and Health Canada's MAC is set to 7.0 mg/L.

Strontium may pose a risk to infant bone development at high concentrations (Health Canada, 2019). Health Canada (2019) identifies reverse osmosis and ion exchange technologies as treatment systems that can be used at the residential scale. If treatment was considered for the proposed veterinary clinic, it is not anticipated that commercial scale treatment would be required given the low daily water demand. Conventional treatment (e.g., water softener) is not effective for strontium removal.

The conclusions and recommendations section of the hydrogeological investigation report will be updated to indicate that strontium exceeds the federal guidelines maximum acceptable concentration and recommends treatment systems listed in the federal guidelines information sheets, consultation with the local Public Health office and refer to the City of Ottawa's Strontium in Drinking Water Information Sheet.

33. The location of PW-4 noted on Figure 1 is inconsistent with the existing well location noted on the Topographic Survey, Site Plan, and Servicing and Grading Plan. Geotechnical Investigation, prepared by GEMTEC., dated August 19, 2022 Coordinate with GEMTEC

Updated – the location of PW4 in the GEMTEC report was incorrect and has been re-located. The location of PW4 is consistent with the existing well location noted on the Topographic Survey, Site Plan, and Servicing and Grading Plan.

Geotechnical Investigation

34. This report should include a discussion regarding thin soils and the impact this may have on septic system design, well construction and separation distances.

Discussion is provided in the hydrogeological Investigation report.

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive 613.836.1422
Ottawa, ON, Canada ottawa@gemtec.ca
K2K 2A9 www.gemtec.ca

35. Should this property be considered hydro-geologically sensitive?

Discussion is provided in the hydrogeological Investigation report.

Phase One Environmental Site Assessment, project: 4 Campbell Reid Court, Ottawa, Ontario; prepared by: GEMTEC; project: 65013.01; dated: 30-Sep-2021.

36. An interview with someone with longer site knowledge of the site is required

No person with historical knowledge of the Site longer than five years was identified. Based on the low-risk nature of the existing development with respect to Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs), locating historical persons with knowledge of the site is highly unlikely to beneficially contribute to the assessment completed within the Phase One ESA.

37. Section 3.3.1 should be updated

The FOI response was received on January 27, 2022, which stated that no records were located responsive to the request. The outcome of the Phase One ESA Report is not affected.

38. Section 4.2 requires updating

A response from the City of Ottawa was received on October 21, 2021, containing information records pertaining to the fire incident. The records did not indicate the use of firefighting foam for fire suppression The outcome of the Phase One ESA Report is not affected.

39. HLUI reporting was not found in the report

The HLUI response was received on November 8, 2021. Based on the HLUI review, there are no changes required to the ESA Phase One Report.

40. The reporting should be more specific on the fire

As per response to Comment 38 above, after a review of records of the incident, the fire does not contribute to an APEC on Site and does not affect the outcome of the Phase One ESA.

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive 613.836.1422
Ottawa, ON, Canada ottawa@gemtec.ca
K2K 2A9 www.gemtec.ca

41. Plate I5 should be discussed

The structure in the photo was mislabelled as an 'outhouse'. The structure is a chicken coop. A chicken coop is not an APEC per O.Reg 153/04.

42. The well shown in plate I9 is too close to the building

Private well PW4 shown in plate I9 is an existing water supply well, in place prior to the site plan control application. The well in question is mineralized and an exemption is currently being requested from the MECP. If the exemption is not granted, the well will be abandoned.

Phase Two Environmental Site Assessment, project: 4 Campbell Reid Court, Ottawa, Ontario; prepared by: GEMTEC; project: 65013.01; dated: 18-Jul-2022.

43. If excess soil is generated, a soil characterization plan will be required (this should be caried in the commence work notice at that time)

If Section 8 of O.Reg 406/19 is triggered for this development, considering recent amendments to the regulation concerning redevelopment of residential properties, then depending on the volume of soil to become excess through future development, the various *planning documents* and notice to the RPRA Registry may be required.

We trust that this report is sufficient for your requirements. If you have any questions concerning this information or if we can be of further assistance to you on this project, please call.

Ester Wilson

Ester Wilson, BSc., GIT
Junior Environmental Scientist

Brent Redmond, M.A.Sc. G.I.T.
Junior Environmental Scientist

OTTAWA FIRE SERVICES
1445 Carling Avenue
Ottawa, ON K1Z 7L0
Telephone: (613)580-2424

Fire Incident Report Worksheet

Incident Type: WORKING FIRE
Incident Number: 19-72135
Address: 4 CAMPBELL REID CRT
Cross Street: [None selected]
Incident Begin Time: 10/03/2019 16:45:16
Incident End Time: 10/04/2019 02:01:07
Total Staffing 76
Property Type: 301 Detached Dwelling
Building Name: s.14(1)
Response Type: 01 Fire
Exposure Fire: No
Station Zone: 45
Possible Cause (if 01 Fire): 98 Unintentional, cause undetermined
Dispatcher ID: F00106
Alarm to Fire Dept: 02 Telephone from Civilian

SECTION A - Fire Occurences

Location Code	Total # Rescues	Total Fire Injuries	Total Fire Fatalities
0608	0	0	0

SECTION B - Structural and Vehicle Fires / Explosions

Agent Applied
10/03/2019 16:56:32

Property Type
301 Detached Dwelling

Fire Origin (Area)
49 Other Storage Area

Igniting Object
999 Undetermined

Fuel/Energy Igniting Obj
99 Undetermined

Material First Ignited
99 Undetermined

Cause (Possible)
98 Unintentional, cause undetermined

SECTION C - Vehicle Fires / Explosions

Vehicle Primary Purpose

Vehicle Fuel Source

SECTION D - Structural / Property Fire / Explosions

Property Complex
98 Not Applicable

Occupancy Status
01 Permanent - Person(s) Present

Building Status
01 Normal (no change)

Occupancy Status
01 Permanent - Person(s) Present

Building Height
002 2 Storey

Fire Origin (Level)
001 1st Floor

Fire Incident Report Worksheet

Apparatus

Apparatus Name	Station Name	Dispatch Time/Date	On Route Time/Date	On Scene Time/Date	Return Service Time/Date	Return Quarter Time/Date
District Chief 20		10/03/2019 16:49:08	10/03/2019 16:52:50	10/03/2019 17:08:44		10/03/2019 18:29:16
District Chief 40		10/03/2019 16:49:08	10/03/2019 16:54:28	10/03/2019 17:11:30		10/03/2019 19:34:01
District Chief 40		10/03/2019 22:05:09	10/03/2019 22:05:09	10/03/2019 22:05:09		10/03/2019 22:20:49
Heavy Rescue 12		10/03/2019 17:00:50	10/03/2019 17:02:26	10/03/2019 17:26:36		10/03/2019 18:28:26
Heavy Rescue 64		10/03/2019 16:49:08				
INV1		10/03/2019 17:17:49	10/03/2019 17:23:36	10/03/2019 18:22:55		
Ladder 42		10/03/2019 16:49:08	10/03/2019 16:51:12	10/03/2019 16:57:42		10/03/2019 19:34:24
Pumper 21		10/03/2019 16:49:08	10/03/2019 16:50:49	10/03/2019 17:04:59		10/03/2019 18:24:56
Pumper 22		10/03/2019 16:49:08	10/03/2019 16:50:45	10/03/2019 17:03:19		10/03/2019 18:15:44
Pumper 36		10/03/2019 19:37:26	10/03/2019 19:38:07	10/03/2019 20:10:12		10/03/2019 22:20:00
Pumper 41		10/03/2019 16:49:08	10/03/2019 16:51:26	10/03/2019 17:03:16		10/03/2019 18:54:39
Pumper 42		10/03/2019 16:46:32	10/03/2019 16:54:33	10/03/2019 16:54:41		10/03/2019 18:49:49
Pumper 46		10/03/2019 16:49:08	10/03/2019 16:50:42	10/03/2019 17:03:19		10/03/2019 20:17:30
Pumper 64		10/03/2019 16:49:08	10/03/2019 16:55:06	10/03/2019 17:03:13		10/03/2019 18:54:06
Pumper 66		10/03/2019 17:20:16	10/03/2019 17:32:10	10/03/2019 17:36:52		10/03/2019 18:41:55
Pumper/Tanker 32		10/03/2019 16:49:08	10/03/2019 16:50:46	10/03/2019 17:32:52		10/03/2019 18:23:06
Pumper/Tanker 41		10/03/2019 16:49:08	10/03/2019 16:58:11	10/03/2019 17:08:44		10/03/2019 19:01:38
Pumper/Tanker 46		10/03/2019 16:49:08	10/03/2019 19:17:25	10/03/2019 19:33:35		10/03/2019 20:42:17
Pumper/Tanker 84		10/03/2019 17:20:16	10/03/2019 17:26:18	10/03/2019 17:42:26		10/03/2019 18:41:13
PumpTank 43		10/03/2019 16:46:32	10/03/2019 16:48:25	10/03/2019 17:03:17		10/03/2019 19:49:12
Rehab 54		10/03/2019 17:20:28	10/03/2019 17:20:58	10/03/2019 18:10:19		10/03/2019 19:04:47
Sector Chief 60		10/03/2019 17:06:18	10/03/2019 17:06:26	10/03/2019 17:08:19		10/03/2019 18:43:47
Squad 84		10/03/2019 17:33:15	10/03/2019 17:33:15	10/03/2019 18:09:47		10/03/2019 19:14:52
Support Unit 45		10/03/2019 16:46:32	10/03/2019 16:48:41	10/03/2019 16:55:38		
Support Unit 45		10/03/2019 21:33:22	10/03/2019 21:33:22			
Tanker 45		10/03/2019 16:46:32	10/03/2019 16:59:54	10/03/2019 17:01:04		10/03/2019 18:31:55
Tanker 64		10/03/2019 16:49:08	10/03/2019 16:54:18	10/03/2019 17:01:56		10/03/2019 18:52:21
Tower 22		10/03/2019 16:49:08	10/03/2019 16:50:30	10/03/2019 17:02:54		

INC Responders:

Name:	Apparatus To Scene
Alvarez, Victor	Squad 45
Armstrong, Sean	Ladder 42
Asmis, Paul	Ladder 42
Aubrey, Patrick	Pumper 41
Baroud, Fady	Pumper 66
Barton, Scott	Pumper 42
Bisdee, Peter	Pumper 46
Burke, Kyle	Pumper 66
Butcher, Steven	Ladder 42
Carver, Wayne	Heavy Rescue 12
Chapman, Jay	StandbyNoVehicleAssigned
Chester, Jake	Pumper 22
Chester, Richard	Tanker 45
Coburn, Devan	Pumper 36
Cooper, Adam	StandbyNoVehicleAssigned
Duncan, David	Pumper 22

Fire Incident Report Worksheet

Farhat, Hassan	Tower 22
Fletcher, Cameron	Pumper 42
Gilmour, Greg	Heavy Rescue 12
Grzela, Steve	Pumper 36
Guerrini, Nicholas	Pumper 66
Hahn, Michael	Pumper 64
Hallinan, Peter	Pumper/Tanker 46
Horner, Lars	PersonalVehicle
Hunt, Cheryl	Pumper 22
Hutt, Phillip	Heavy Rescue 12
Jasysyn, Dustin	Pumper 22
Kaluski, Justin	Pumper/Tanker 84
Katsoulis, Vasilios	Tower 22
Kelleher, Gary	Squad 45
Kelly, Gregory	Pumper 46
Kenmir, Jeff	Squad 45
Kennedy, Christopher	PumpTank 43
Kennedy, John	Tanker 45
Kirkpatrick, Thomas	PumpTank 43
Kull, Andrew	Pumper 66
Lang, Robert	Pumper 64
Langstaff, Thomas	Pumper 64
LaRue, Ken	Pumper/Tanker 46
Levesque, Joshua	Pumper 66
Lidlow, Tim	Pumper 42
Lipson, David	Pumper/Tanker 84
Logan, Steve	Pumper/Tanker 84
MacLean, Brad	Pumper 41
MacMillan, Allan	Pumper 42
Masson, Robert	Pumper 41
McCalden, David	PersonalVehicle
McLennan, Douglas Bruce	Tower 22
McLeod, Scott	PersonalVehicle
Monette, Cory	Squad 45
Nunn, Josh	StandbyNoVehicleAssigned
Paul, Louis	Pumper 64
Peddie, Cory	Pumper/Tanker 32
Potter, Jesse	Pumper/Tanker 32
Rickard, Chris	Pumper 41
Roy, Ryan	Pumper 36
Santos, Tristen	Pumper/Tanker 84
Seabrook, Kyle (41)	Pumper/Tanker 41
Shepherdson, Mason	Pumper 36
Sim, David	PumpTank 43

Sinclair, Jacob	StandbyNoVehicleAssigned
Skitt, Alison	Pumper 46
Smiley, Robert	PumpTank 43
Snider, Jeff	Pumper 46
Snider, Mark	Pumper/Tanker 41
Snuggs, Taylor	Pumper/Tanker 41
Sproule, Mark	Pumper 64
St Denis, Mario E	Pumper/Tanker 32
St. John, Mark	Pumper/Tanker 41
Standing (43), Matthew	Pumper/Tanker 32
Waterman, Ryan	Pumper/Tanker 84
Wendelken, Corey	Squad 84
Wheatley, Calvin	Pumper/Tanker 41
zz_Dowlatshahi, Sheba	Pumper/Tanker 46
zz_Taetz, Tom	Squad 45
zz_Wittebol, Nicholas	Pumper/Tanker 46

Fire Internal Remarks

Report Date 10/04/2019 06:08:05

came in as outside fire ,no exposures
once weturned on Cameron Harvey drive observed large column of black smoke ,put in working fire
Pulled on scene and we told all persons were out of the building
went to side 1&4 shed approximately 16x 32 ft was fully involved plus side 4 of home was on fire
and had breached gable end into attic and through roof at side 3&4
gave update and then attacked with 13/4 line off of SU45 till out of water
P42 was attack pump and ran a lines to side and side 4
pump 46 went to water fill site
made ff hunt a safety officer
P41 took over accountability for them
Car 60 and car 20 showed up at same time
Car 20 took over command
SU45 operator went inside with P42 crew
I stayed out as second safety

Fire Internal Remarks

Report Date 10/04/2019 06:12:53

P22 provided assistance with fire attack on side 3 exterior with a 45mm handline and then procedded to assist with overhaul and extinguishment inside the kitchen area on side three. Tower 22 provided assistance with fire attack on side 3 on top of the bay cathedral vaulted area by cutting ventilation into hidden areas on the small roof and assisting with fire attack with a 45mm handline on the second floor from that viewpoint.

Dispatch Notes:

10/03/2019 16:47:45 F00106
911 CALLER - LOOKS LIKE A HOUSE ON FIRE

10/03/2019 16:47:56 F00106
IN THE BACK

10/03/2019 16:48:00 F00084
SHED ON FIRE VERY CLOSE

10/03/2019 16:48:20 F00106
WHITE HOUSE ON CAMPBELL REID CRT

10/03/2019 16:48:39 F00106
EXACT ADDRESS 4 CAMPBELL REID CRT

10/03/2019 16:48:46 F00106
SIDE OF THE HOUSE IS ON FIRE

10/03/2019 16:48:58 F00106
OWNERS WAITING OUTSIDE

10/03/2019 16:49:01 F00084
AS PER A RURAL FF SAYS IT A HOUSE ON FIRE

10/03/2019 16:49:56 F00102
P21 RIT P22 ACP

10/03/2019 16:50:04 F00106
EMS NOTIFIED

10/03/2019 16:50:42 F00102
SHED AND HOUSE ON FIRE ON SIDE 4

10/03/2019 16:51:47 F00106
POLICE NOTIFIED

10/03/2019 16:52:52 F00102
EVERYONE IS OUT OF THE HOUSE

10/03/2019 16:52:59 F00106
GAS COMPANY NOTIFIED

10/03/2019 16:53:52 F00106
ALL STATION NOTIFIED,1649

10/03/2019 16:53:57 F00102
SIDE 4 FULLY INVOVLED

10/03/2019 16:55:50 F00106
HYDRO NOTIFIED

10/03/2019 17:03:09 F00102
P42 NOW HAS WATER

10/03/2019 17:03:45 F00102
P46 WATER FILL

10/03/2019 17:11:05 F00102
P22 SHERYL HUNT ASSUMING SAFETY

10/03/2019 17:13:37 F00102
SC60 WATER SUPPLY - CHANNEL 9-1

10/03/2019 17:15:27 F00102
P21 GAS SHUT OFF IN THE HOUSE

10/03/2019 17:16:38 F00102
PHASE 2 OF WATER SUPPLY

10/03/2019 17:18:33 F00102
VICTIM ASSISTANCE REQUESTED

10/03/2019 17:19:04 F00102
P41 IS NOW ACP

10/03/2019 17:23:26 F00106
INV1 CALLED IN FOR INFO,AND WILL CALL CAR40 DIRECTLY

10/03/2019 17:23:54 F00106
MARY FROM RED CROSS RESPONDING ETA 1.5 HOURS (PAGE RESENT)

10/03/2019 17:25:00 F00067
2 SHOWING FOR 66...7 SHPOWING FOR 84 ON IAR

10/03/2019 17:26:06 F00102
INSPECTOR NOTIFIED

10/03/2019 17:31:29 F00102
P22 NEED ANOTHER CREW FOR THE KITCHEN

10/03/2019 17:32:57 F00102
DC20 IS FIRE CONTROL

10/03/2019 17:34:52 F00102
NEED A CREW FOR SIDE 3 TO ASSIST 22 WITH A SAW

10/03/2019 17:36:17 F00102
FM WATER SUPPLY - LA42 IS CHARGED

10/03/2019 17:36:27 F00102
PEOPLE INSIDE THE STRUCTURE - HOLD OFF ON WATER

10/03/2019 17:37:46 F00102
CREWS ON THE 2ND FLOOR - HOLD ON ON WATER TO THAT AREA

10/03/2019 17:39:47 F00102
LA42 PULLING CEILLING - KNOCKED DOWN MOST OF THE FIRE ON 2ND FLOOR

10/03/2019 17:39:57 F00102
LA42 NEED ADTL CREW ON THE 2ND FLOOR

10/03/2019 17:40:20 F00102
P64 IS TO HELP LA42 ON 2ND FLOOR

10/03/2019 17:40:53 F00102
HITTING HOT SPOTS - NOT USING A LOT WATER

10/03/2019 17:45:21 F00102
FROM CMD - NEED SPARE CREW TO SALVAGE ON 1ST FLOOR - ONCE ANOTHER CREW IS AVAIL SEND TO 2ND FLOOR

10/03/2019 17:47:05 F00102
P42 CAME OUT OF THE BASEMENT AND SHUT HYDRO OFF

10/03/2019 17:50:01 F00102
LA42 3 CREWS UPSTAIRS - MAKING GOOD PROGRESS - OPENING UP WALLS

10/03/2019 17:50:42 F00102
SIDE 3 STILL HAS FIRE JUST AT THE PEAK

10/03/2019 17:51:07 F00102
LA42 SENDING MEMBER DOWN FOR ADDICK LADDER

10/03/2019 17:52:22 F00102
LA42 SENDING P64 OUT

10/03/2019 17:53:32 F00102
HYDRO PULLED THE METER - THERE IS STILL POWER IN THE LINES OVERHEAD

10/03/2019 17:56:52 F00102
RE12 - AT SIDE 1

10/03/2019 18:00:12 F00102
P22 LEFT STRUCTURE IN REHAB

10/03/2019 18:01:08 F00102
LA42 STILL ON SECOND - OVER HAUL MOST OF THE AREA - NO VISIBLE FIRE AT THIS TIME

10/03/2019 18:02:14 F00102
S45 - ONE MAN WITH LOW AIR - NEED ANOTHER CREW

10/03/2019 18:12:26 F00102
RHB54 BEHIND SC60

10/03/2019 18:22:41 F00102
FROM WATER SUPPLY - P46 IS FIRE WATCH

10/03/2019 19:13:29 F00102
VS HAS BEEN THERE FOR 30MIN

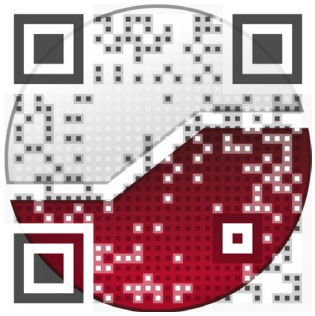
10/03/2019 19:14:01 F00102
PT46 AND P46 ARE FIRE WATCH

10/03/2019 21:39:53 F00102
SU45 GOING BACK TO FIRE SCENE TO SPEAK WITH INV1

10/03/2019 22:20:21 F00102
AFTER GOING THREW HOUSE MANY TIMES EVERYTHING IS OKAY- TERMINATING CMD - HOME OWNER SECURING THE BLDG WITH BOARDS

01/01/1800 00:00:00
400-3419

experience • knowledge • integrity



civil	civil
geotechnical	géotechnique
environmental	environnementale
field services	surveillance de chantier
materials testing	service de laboratoire des matériaux

expérience • connaissance • intégrité