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Phase I - Environmental Site Assessment

910 March Road
Ottawa, Ontario

Prepared For

March Road Land Holdings Inc.

August 16, 2021

Report: PE4760-3

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by March Road Land Holdings Inc. to conduct a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March Road in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the Phase I Property and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the subject land.

Paterson previously completed a Phase I-ESA in 2019 for the Phase I Property, and identified three (3) APECs on the Phase I Property: the former presence of an underground storage tank (UST) on the southwest side of the residential dwelling; the presence of an empty above ground storage tank (AST) situated on the west side of the storage shed located east of the residential dwelling; and, the presence of three (3) empty ASTs situated inside the northeastern storage shed on the Phase I Property.

A subsequent Phase II ESA was carried out in conjunction with a Geotechnical Investigation and consisted of drilling nine (9) boreholes across the Phase II Property, three (3) of which were constructed with groundwater monitoring well installations.

The soil profile generally consisted of topsoil, followed by a silty clay layer. Boreholes were terminated at a maximum depth of 4.7m below the ground surface. Soil samples were obtained from the boreholes and screened using combustible vapour measurements along with visual and olfactory observations.

Based on the screening results in combination with sample depth and location, three (3) soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and petroleum hydrocarbons (PHCs, F_1-F_4). No BTEX or PHC parameters were identified above the laboratory detection limit in the soil samples analyzed. All of the soil results complied with the MECP Table 8 Residential Standards for coarse grain soils.

Groundwater samples from monitoring wells installed in BH5, BH6 and BH7 were recovered and analyzed for BTEX and PHCs. No free-phase product was observed on the groundwater at any of the monitoring well locations during the groundwater sampling event.

No BTEX or PHC parameters were identified above the laboratory detection limits in the groundwater samples analyzed. The groundwater results complied with the MECP Table 8 Standards.

Based on the findings of the Phase II ESA report, it is our opinion that the APECs (APECs 1 through 3) on the Phase I Property have been adequately addressed, and as such, no longer represent APECs.

According to the historical research, the Phase I Property was initially developed with a residence and farmstead circa 1890. The subject land remained as agricultural land (cattle farm) until 2014, at which time it was used for residential purposes only. No potentially contaminating activities (PCAs) were identified with the historical use of the Phase I Property.

Based on historical records, neighbouring lands were also occupied by residences and farmsteads. No PCAs were identified with the historical use of properties within the Phase I Study Area.

Following the historical research, a site visit was conducted. The subject land is occupied by five (5) outbuildings currently being dismantled and demolished. The former residential dwelling was demolished in the late fall of 2019 as well a storage shed. No signs of USTs or ASTs were noted at the time of the site visit.

Neighbouring lands in the Phase I Study Area consist of residential, vacant lands and commercial businesses located to the south. No PCAs were identified with the current use of the lands within the Phase I Study Area.

Based on the results of the Phase I ESA, **it is our opinion that a Phase II Environmental Site Assessment is not required for the subject property**.

Recommendations

If the domestic wells currently on-site are not going to be used in the future, they should be abandoned according to Ontario Regulation 903.

1.0 INTRODUCTION

At the request of March Road Land Holdings Inc., Paterson Group (Paterson) conducted a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March Road in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA at the request of Ms. Pascale Lepine of March Road Land Holdings Inc. Ms. Lepine can be reached by telephone at 613-591-9090.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all our findings and results of the environmental conditions at this site.

This Phase I ESA report has been prepared under the supervision of a Qualified Person, in general accordance with the requirements of Ontario Regulation 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information, as well as a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies, and was limited within the scope-of-work, time, and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	910 March Road, Ottawa, Ontario
Legal Description:	Part of Lots 11 and 12, Part 1 of Registered Pan 4R24361, March Concession 4, in the City of Ottawa.
Property Identification Number (PIN):	04527-0840
Location:	The Phase I Property is located on the east side of March Road, approximately 86 m north of the Maxwell Bridge Road and March Road intersection, in the City of Ottawa, Ontario. For the purposes of this report, March Road is assumed to run in a north-south direction. The subject site is shown on Figure 1 – Key Plan, following the body of this report (Figures section).
Latitude and Longitude:	45° 21' 35.47" N, 75° 56' 10.25" W

Site Description:

Configuration:	Irregular
Site Area:	2.72 ha (approximate)
Zoning:	DR – Development Reserve Zone designated on the southern portion of the site. RU – Rural Zone designated on the northern portion of the site of which Shirley's Brook and its tributary transects the north-eastern and northern portions of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary.
Current Use:	The subject site is currently an uninhabited farmstead.
Services:	The Phase I Property has private services (potable wells and septic system) and will be provided with municipal services upon redevelopment.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- ❒ Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- ❒ Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- ❒ Conduct interviews with persons knowledgeable of current and historic operations on the subject property and, if warranted, neighbouring properties;
- ❒ Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 153/04, as amended, under the Environmental Protection Act, and in compliance with the requirements of CSA Z768-01;
- ❒ Provide a preliminary environmental site evaluation based on our findings;
- ❒ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assessment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on the historical review and personal interview with the current landowner, the Phase I Property was first developed with a farmstead circa 1890. For the purpose of this Phase I ESA, the first developed use of the Phase I Property is considered to have been residential and agricultural in 1890.

National Archives

Fire insurance plans and city directories are not available for the Phase I Property and properties within the 250m Phase I Study Area.

Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews and other historical records.

Plan of Subdivision

A survey plan prepared by Stantec Geomatics Limited and dated July of 2017 was reviewed as a part of this assessment. The plan depicts the Phase I Property, in its current configuration. A copy of the survey plan is provided in Appendix 1.

Previous Engineering Reports

The following report was reviewed as part of this Phase I-ESA Update.

- *"Phase I - Environmental Site Assessment, 910 March Road, Ottawa, Ontario,"* prepared by Paterson Group Inc. (Paterson), dated November 5, 2019.

Based on the 2019 of the Phase I ESA, three (3) APECs were identifed on-site, as per the Items listed in Table 2 of the O.Reg. 153/04:

- APEC 1: *"Gasoline and Associated Products Storage in Fixed Tanks"* – this PCA was identified based on the presence of a former underground storage tank situated on the southwest side of the residential dwelling on the Phase I Property (PCA 28).
- APEC 2: *"Gasoline and Associated Products Storage in Fixed Tanks"* – this PCA was identified based on the presence of an empty above ground storage tank situated on the west side of the storage shed located east of the residential dwelling on the Phase I Property (PCA 28).
- APEC 3: *"Gasoline and Associated Products Storage in Fixed Tanks"* – this PCA was identified based on the presence of three (3) empty above ground storage tanks situated inside the northeastern storage shed on the Phase I Property (PCA 28).

A subsequent Phase II ESA was completed to address the aforementioned APECs.

- ❑ *"Phase II - Environmental Site Assessment, 910 March Road, Ottawa, Ontario,"* prepared by Paterson, dated November 11, 2019.

The Phase II ESA was carried out in conjunction with a Geotechnical Investigation and consisted of drilling nine (9) boreholes across the Phase II Property, three (3) of which were constructed with groundwater monitoring well installations.

The soil profile generally consisted of topsoil, followed by a silty clay layer. Boreholes were terminated at a maximum depth of 4.7m below the ground surface. Soil samples were obtained from the boreholes and screened using combustible vapour measurements along with visual and olfactory observations.

Based on the screening results in combination with sample depth and location, three (3) soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and petroleum hydrocarbons (PHCs, F_1-F_4). No BTEX or PHC parameters were identified above the laboratory detection limits in the soil samples analyzed. All of the soil results complied with the MECP Table 8 Residential Standards for coarse grain soils.

Groundwater samples from monitoring wells installed in BH5, BH6 and BH7 were recovered and analyzed for BTEX and PHCs. No free-phase product was observed on the groundwater at any of the monitoring well locations during the groundwater sampling event.

No BTEX or PHC parameters were identified above the laboratory detection limits in the groundwater samples analyzed. The groundwater results complied with the MECP Table 8 Standards.

Based on the findings of the Phase II ESA report, it is our opinion that the APECs (APECs 1 through 3) on the Phase I Property have been adequately addressed, and as such, no longer represent APECs.

A Designated Substance Survey (DSS) was conducted at the subject site by Paterson in October 2019. Based on the report, asbestos-containing materials (ACMs) were identified in the residential structure. All ACMs were removed according to the O.Reg 490/09 under the Occupational Health and Safety Act prior to demolishing the residential dwelling in the late Fall of 2019.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on August 10, 2021. The Phase I Property and properties within the Phase I Study Area were not listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the Ontario Ministry of Natural Resources and Forestry (MNRF) website on October 3, 2019. No natural features or areas of natural significance were identified on the Phase I Property or within the 250m study area.

Ontario Ministry of Environment, Conservation and Parks (MECP) Instruments

A response from the MECP Freedom of Information (FOI) was received on November 4, 2019. After a thorough search through the Ministry's 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, no records were identified for the Phase I Property. A copy of the MECP response is appended to this letter.

MECP Submissions

A response from the MECP Freedom of Information (FOI) was received on November 4, 2019. After a thorough search through the Ministry's 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, no records were identified for the Phase I Property. A copy of the MECP response is appended to this letter.

MECP Waste Management Records

A response from the MECP Freedom of Information (FOI) was received on November 4, 2019. After a thorough search through the Ministry's 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, no records were identified for the Phase I Property. A copy of the MECP response is appended to this letter.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment, Conservation and Parks document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. The Phase I Property and properties within the 250m study area are not listed in this document.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the subject site, neighbouring properties, and the Phase I study area. No Records of Site Condition (RSCs) were filed for the Phase I Property or for any properties within the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. No records were listed for the Phase I Property or for properties within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on August 10, 2021, to inquire about current and former underground storage tanks, spills and incidents for the Phase I ESA Property and neighbouring properties. Based on the TSSA response, no records are listed in the TSSA registry for the Phase I ESA Property or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfill sites were identified within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A request for information from the City's Historical Land Use Inventory (HLUI) for the subject property was sent to the City of Ottawa. Based on the response, there are no records pertaining to the Phase I Property. One record was identified for a property more than 100 m south of the subject land. Based on the separation distance, the listed activity is not considered to represent a potential environmental concern. A copy of the HLUI authorization form is provided in Appendix 2.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I ESA Property and properties within the 250 m study area.

According to the ERIS report, no records were identified for 910 March Road. The ERIS search identified several off-site records, which included waste generators, spills and incidents. Based on the nature of these records, their separation distances and/or orientations with respect to the Phase I ESA Property, these off-site records are not considered to represent PCAs and/or APECs on the Phase I ESA Property. A copy of the ERIS report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals, commencing with the earliest available photograph. Based on the review, the following observations have been made:

1934	The subject site is occupied by a farmstead. Surrounding lands are occupied by agricultural land with some farmsteads/residences.
1945	The subject site and surrounding lands remain unchanged from the previous photograph.
1955	No significant changes are apparent on the subject site or neighbouring lands.
1976	A residential dwelling (red roof) and barn-like structure can be seen in this photograph. No significant changes are apparent on the subject site and surrounding lands.
1989	Several structures appear to be occupying the subject site at this time. No apparent changes have been made to neighbouring lands.
1991	One of the barn-like structures situated on the central part of the site is no longer present. Some ground disturbance is visible at this time. New roadways can be seen to the east of Old Carp Road (Marchbrook Circle) and March Road (Klondike Road) at this time.
2002	The subject site remains unchanged from the previous photograph. Residences are present to the west and preparation of a new development is noted to the southwest. Lands to the north and east remain unchanged.
2011	(City of Ottawa Website) No changes are apparent on the subject site. A new residential and commercial development is present to the east and south, as well as a stormwater management pond. Maxwell Bridge Drive is present at this time.
2019	(City of Ottawa Website) The former residential dwelling has been demolished. No other significant changes are apparent on the surrounding lands.

Copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the Phase I Property and regional topography slopes down in a southeast/south direction towards Shirley's Brook. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication and attached mapping, the site is situated within the Ottawa Valley Clay Plains physiographic region, described as "clay plains interrupted by ridges of rock.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock in the area of the site consists primarily of interbedded sandstone and dolomite of the March Formation. Based on the maps, the thickness of overburden ranges from 5 to 10 m and consists of offshore marine sediments consisting of erosional terraces.

Water Well Records

A search of the MECPs website for all drilled well records within 250 m of the subject site was conducted on October 3, 2019. Based on the online mapping search results, two (2) potable well records were identified on the Phase I Property. The wells were drilled in 1973 and 2006 to an approximate depth of 27.4 m below the ground surface (mbgs). The water was clear and sediment free in both wells. According to these well logs, the site stratigraphy consisted of brown clay, extending to a depth of 1.82 m, underlain by interbedded limestone and sandstone bedrock.

Eighteen (18) well records were identified for properties within the Phase I Study Area, which consisted of twelve (12) domestic wells drilled between 1961 to 1984, and six (6) well abandonments from 2006 to 2007. No concerns were noted during the review of these records. Copies of the MECP well records are provided in Appendix 2.

Water Bodies and Areas of Natural Significance

Shirley's Brook transects the northeastern portion of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary and drains into Shirley's Brook. No other bodies of water are present on the Phase I Property or within the Phase I Study Area. No areas of natural significance are known to exist within the Phase I Study Area.

5.0 PERSONAL INTERVIEWS

Mr. Jim Maxwell, the former property owner was interviewed at the time of the site visit. Mr. Maxwell indicated that the Maxwell family has owned and operated the farm (cattle farm) for more than 100 years, which ceased operations in 2004. According to Mr. Maxwell, the residential dwelling was previously on fuel oil with an underground storage tank (UST) situated beside the exterior south wall of the residence. The UST as well the oil-fired furnace was removed circa 1980. A wood burning stove and a propane fired furnace was used in replacement of the oil-fired furnace, which was later converted to natural gas in the early 2000s.

For the last 12 years, the site has been primarily used for residential purposes and storage of various farm equipment, tools and building materials from Mr. Maxwell's farm located in Perth, Ontario. The residence had not been occupied since 2017 and was demolished in 2019. Mr. Maxwell has indicated that he was not aware of any potential environmental concerns on the subject land or neighbouring properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site visit was conducted by Ms. Mandy Witteman, from the Environmental Department of Paterson Group on August 10, 2021. Weather conditions were overcast with a temperature of approximately 8°C. In addition to the Phase I Property, the use of neighbouring properties within the Phase I Study Area was also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The Phase I Property is occupied by five (5) outbuildings that are currently being dismantled and demolished. The former residential building and barn have been demolished. A depiction of the subject site is presented on Drawing PE4760-1R – Site Plan, in the Figures section of this report.

Subsurface Utilities and Structures

Historical subsurface structures including the UST and line associated with the heating oil furnace were situated on the south side of the residential dwelling.

Formerly, the Phase I Property was serviced by a private well and septic system with above ground electricity service from March Road. Below ground natural gas services and underground electrical services were present on-site. The approximate locations of above and below ground services are shown on Drawing PE4760-1R –Site Plan.

Site Features

The Phase I Property is situated in a designated floodplain overlying Shirley's Brook and its tributary, which transect the north-eastern and northern portions of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary.

The site is grass-covered land with an asphaltic concrete paved driveway leading to the residential dwelling and attached garage, fronting March Road. Several semi-truck trailers, sheet metal, farm equipment and waste lumber were situated along-side the work and storage sheds.

The topography of the site is generally flat with a slight downward slope along the northern, eastern and southern property boundaries towards Shirley's Brook and its tributaries, present to the north and south. Site drainage occurs primarily through infiltration on grass-covered areas and/or surface runoff to the adjacent drainage ditches along March Road and/or into Shirley's Brook and its tributaries.

One potable water well was noted on the southwestern side of the residential dwelling, which was drilled in 2006. The domestic well drilled in 1973 was located on the west side of the small cabin.

No signs of above ground storage tanks (ASTs) or underground storage tanks (USTs) were noted at the time of the site visit. No hazardous materials, evidence of surficial staining or stressed vegetation were observed on the Phase I Property at the time of the site visit.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the Phase I Property was as follows:

- North: Residential and agricultural land
- East: Shirley's Brook, residences and vacant land, followed by Windance Crescent
- South: MacDonalds, followed by Maxwell Bridge Road
- West: March Road, followed by private clinic and residence.

The current use of the neighbouring properties is not considered to pose an environmental concern to the subject site. There are no properties within the Phase I Study Area that are occupied by potentially contaminating activities (PCAs). Current land use in the Phase I Study Area is illustrated on Drawing PE4760-2R – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following tables indicate the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 1: Land Use History – 910 March Road

Time Period	Name of Owner	Property Use	Description of Property Use	Other Observations from Aerial Photos, FIPs, etc.
Prior to 1890	Unknown	Residential and Agricultural	Phase I Property was reportedly developed as a farmstead in the late 1800's.	First developed use based on personal interview.
1890 to 2007	Private individuals (Maxwell Family)	Residential and Agricultural	Farmstead: residential dwelling and cattle farm	Existing farmstead can be seen in 1934 aerial (earliest aerial available for review). No significant change in land use noted in subsequent 1952, 1976, 1989 and 2007 aerials.

Table 1: Land Use History – 910 March Road				
Time Period	**Name of Owner**	**Property Use**	**Description of Property Use**	**Other Observations from Aerial Photos, FIPs, etc.**
2007 to 2017	Maxwell Family	Residential	Residential and storing tools and farm equipment	Based on an interview with the current property owner. Lack of activity on the Phase I Property can be seen in 2011 and 2017 aerial photos.
2017 to 2019	Maxwell Family	Residential	Unoccupied or uninhabited	Based on an interview the Phase I Property is current unoccupied.
2019 to present	Wexcom Developments	Residential	Unoccupied or uninhabited	Based on a personal interview and field observations

Potentially Contaminating Activities and Areas of Potential Environmental Concern

Based on the review of the previous Phase II ESA report in combination with a records update, there are no potentially contaminating activities (PCAs) and as such, there are no areas of potential environmental concern (APECs) on the Phase I Property.

Contaminants of Potential Concern (CPCs)

No Contaminants of Potential Concern (CPCs) were identified on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the Phase II ESA, the profile generally encountered on the Phase I Property consisted of a layer topsoil underlain by a hard to stiff brown silty clay, followed by a compact to dense glacial till and/or inferred bedrock at depths varying between 1.9 and 4.7 mbgs.

According to the Geological Survey of Canada website, the bedrock in the area of the site consists of interbedded sandstone and dolomite of the March Formation. Overburden soils are reported to consist of offshore marine sediments with erosional terraces or bedrock, with drift thicknesses between 5 and 10m.

The regional topography slopes down in a southeasterly direction. The local groundwater flow beneath the Phase I Property is inferred to be in a south-easterly direction towards Shirley's Brook.

Buildings and Structures

The Phase I Property is occupied by five (5) outbuildings that are currently being dismantled and demolished. The former residential building and one barn was demolished in 2019.

Subsurface Structures and Utilities

Historical subsurface structures including the UST and line associated with the heating oil furnace were situated on the south side of the residential dwelling.

Formerly, the Phase I Property was serviced by a private well and septic system with above ground electricity service from March Road. Below ground natural gas services and underground electrical services were present on-site.

Water Bodies

Shirley's Brook transects the northeastern portion of the Phase I Property in an approximate north-south direction and is considered to flow in a southerly direction while its tributary runs in an approximate east-west direction, parallel to the northern property boundary and drains into Shirley's Brook. No other water bodies are present on the Phase I Property or within the Phase I Study Area.

Areas of Natural Significance

No areas of natural significance are known to exist within the Phase I Study Area.

Potable Water Wells

Based on the MECP well mapping website, two (2) well records were identified on Phase I Property for potable wells that were drilled in 1973 and 2006 to an approximate depth of 27.43 m below the ground surface (mbgs). The water was clear and sediment free.

During the site visit, two (2) domestic wells were located. One well was located on the west side of the former residential dwelling (stone house), while the other was located next to the small residential unit/cabin located north of the residential dwelling. Several domestic well records were identified on properties within the Phase I Study Area. Properties to the north and west within the Phase I Study Area currently rely on potable water wells for drinking water.

Monitoring Wells

The MECP well mapping did not identify any monitoring well records for the Phase I Property or for any properties within the Phase I Study Area.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area is primarily residential and agricultural. Commercial land use is present on the neighbouring properties to the south. Land use is shown on Drawing PE4760-2R - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Subsection 7.1 of this report, there were no PCAs identified within the Phase I Study Area. Therefore, there are no areas of potential environmental concern (APECs) on the Phase I Property.

Contaminants of Potential Concern

As per Subsection 7.1 of this report, there are no Contaminants of Potential Concern (CPCs) on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there are no PCAs that resulted in APECs on the Phase I Property. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSION

Assessment

Paterson Group was retained by March Road Land Holdings Inc. to conduct a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March Road in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the Phase I Property and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the subject land.

Paterson previously completed a Phase I-ESA in 2019 for the Phase I Property, and identified three (3) APECs on the Phase I Property: the former presence of an underground storage tank (UST) on the southwest side of the residential dwelling; the presence of an empty above ground storage tank (AST) situated on the west side of the storage shed located east of the residential dwelling; and, the presence of three (3) empty ASTs situated inside the northeastern storage shed on the Phase I Property.

A subsequent Phase II ESA was carried out in conjunction with a Geotechnical Investigation and consisted of drilling nine (9) boreholes across the Phase II Property, three (3) of which were constructed with groundwater monitoring well installations.

The soil profile generally consisted of topsoil, followed by a silty clay layer. Boreholes were terminated at a maximum depth of 4.7m below the ground surface. Soil samples were obtained from the boreholes and screened using combustible vapour measurements along with visual and olfactory observations.

Based on the screening results in combination with sample depth and location, three (3) soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and petroleum hydrocarbons (PHCs, F_1-F_4). No BTEX or PHC parameters were identified above the laboratory detection limit in the soil samples analyzed. All of the soil results complied with the MECP Table 8 Residential Standards for coarse grain soils.

Groundwater samples from monitoring wells installed in BH5, BH6 and BH7 were recovered and analyzed for BTEX and PHCs. No free-phase product was observed

on the groundwater at any of the monitoring well locations during the groundwater sampling event.

No BTEX or PHC parameters were identified above the laboratory detection limits in the groundwater samples analyzed. The groundwater results complied with the MECP Table 8 Standards.

Based on the findings of the Phase II ESA report, it is our opinion that the APECs (APECs 1 through 3) on the Phase I Property have been adequately addressed, and as such, no longer represent APECs.

According to the historical research, the Phase I Property was initially developed with a residence and farmstead circa 1890. The subject land remained as agricultural land (cattle farm) until 2014, at which time it was used for residential purposes only. No potentially contaminating activities (PCAs) were identified with the historical use of the Phase I Property.

Based on historical records, neighbouring lands were also occupied by residences and farmsteads. No PCAs were identified with the historical use of properties within the Phase I Study Area.

Following the historical research, a site visit was conducted. The subject land is occupied by five (5) outbuildings currently being dismantled and demolished. The former residential dwelling was demolished in the late fall of 2019 as well a storage shed. No signs of USTs or ASTs were noted at the time of the site visit.

Neighbouring lands in the Phase I Study Area consist of residential, vacant lands and commercial businesses located to the south. No PCAs were identified with the current use of the lands within the Phase I Study Area.

Based on the results of the Phase I ESA, **it is our opinion that a Phase II Environmental Site Assessment is not required for the subject property**.

Recommendations

If the domestic wells currently on-site are not going to be used in the future, they should be abandoned according to Ontario Regulation 903.

9.0 STATEMENT OF LIMITATIONS

This Phase I – Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information as well as a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies and was limited within the scope-of-work, time, and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of March Road Land Holdings Inc. Permission and notification from March Road Land Holdings Inc. and Paterson Group will be required to release this report to any other party.

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.,

Mark S. D'Arcy, P.Eng., QP$_{ESA}$

Report Distribution:

- ❒ March Road Land Holdings Inc.
- ❒ Paterson Group Inc.

10.0 REFERENCES

Federal Records
Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records
MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
MECP Water Well Inventory.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
Ministry of Natural Resources and Forestry: Areas of Natural Significance.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records
City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites”, prepared by Golder Associates, 2004.
The City of Ottawa eMap website.

Local Information Sources
Previous Engineering Reports.
Plan of Survey prepared by J.D. Barnes Limited and dated February 2019.

Public Information Sources
Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4760-1R – SITE PLAN

DRAWING PE4760-2R – SURROUNDING LAND USE PLAN

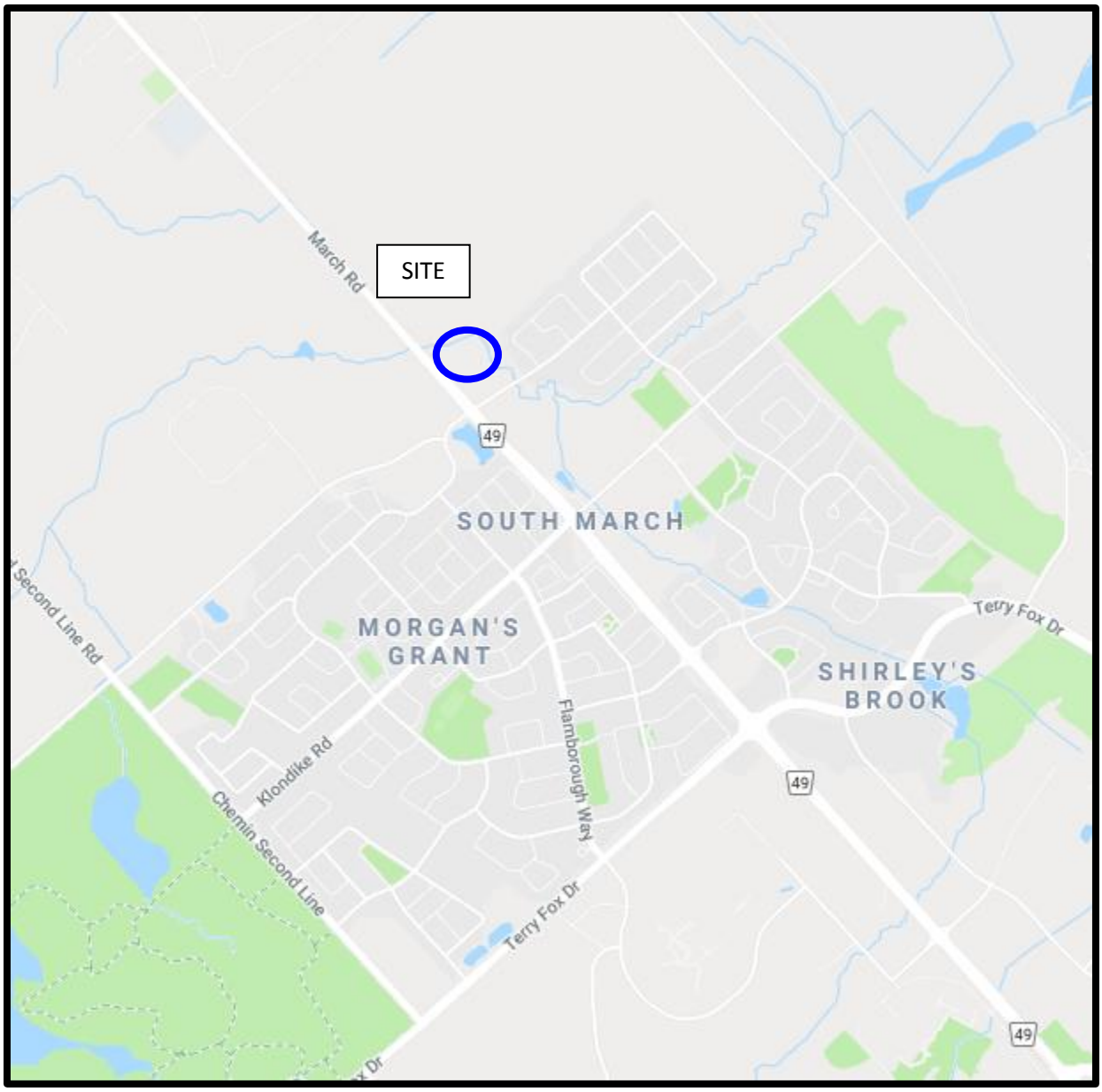


FIGURE 1

KEY PLAN

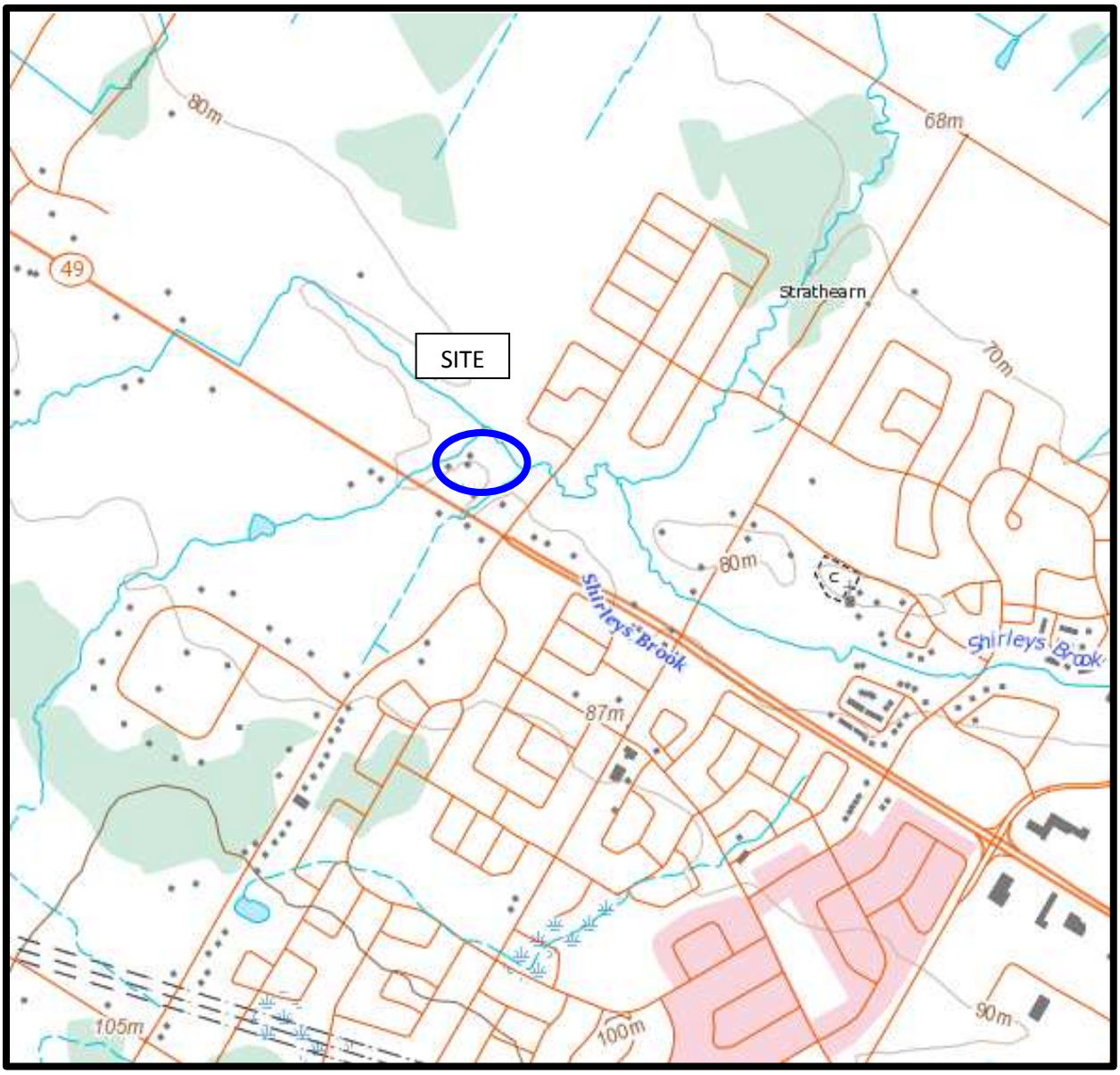


FIGURE 2

TOPOGRAPHIC MAP

941 MARCH ROAD
FARMSTEAD

927 MARCH ROAD
VACANT

905 MARCH ROAD
RESIDENTIAL DWELLING

MARCH ROAD

FARMSTEAD

936 MARCH ROAD
AGRICULTURAL LANDS

TREED AREA

ACCESS ROAD

CABIN

STORAGE SHEDS

FORMER STORAGE TANKS

BH 1
78.38

BH8
77.99

BH5
77.27
(75.70)

FORMER STORAGE TANKS

BH 6
77.83
(75.61)

916 MARCH ROAD
RESIDENTIAL DWELLING

BH 4
76.82
(73.01)

BH 7
78.80
(76.75)

FORMER RESIDENTIAL DWELLING

WOOD STOCKPILE

FORMER WORKSHOP

FORMER UNDERGROUND STORAGE TANK

BH 9
77.55

BH 3
77.04

WOOD SHED

BH 2
77.63

TBM-CB
T/G=78.58

RESIDENTIAL DWELLINGS

SHIRLEY'S BROOK

349 MAXWELL BRIDGE ROAD
VACANT LAND

886 MARCH ROAD
MCDONALD`S

895 MARCH ROAD
MEDICAL CLINIC

LEGEND:

- BOREHOLE LOCATION
- BOREHOLE WITH MONITORING WELL LOCATION
- 78.80 GROUND SURFACE ELEVATION (m)
- (76.75) GROUNDWATER SURFACE ELEVATION (m)

SCALE: 1:1000

0 10 20 30 40 50m 75m

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

MARCH ROAD LAND HOLDINGS INC.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
910 MARCH ROAD

OTTAWA, ONTARIO

Title:

SITE PLAN

Scale: 1:1000	**Date:** 08/2021
Drawn by: YA	**Report No.:** PE4760-3
Checked by: MW	**Dwg. No.:** PE4760-1R
Approved by: MSD	**Revision No.:**

11x17

p:\autocad drawings\environmental\pe47xx\pe4760\pe4760-1r-site plan.dwg

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

MARCH ROAD LAND HOLDINGS INC.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
910 MARCH ROAD

OTTAWA, **ONTARIO**

Title:

SURROUNDING LAND USE PLAN

Scale: 1:3000	**Date:** 08/2021
Drawn by: YA	**Report No.:** PE4760-3
Checked by: MW	**Dwg. No.:** PE4760-2R
Approved by: MSD	**Revision No.:**

p:\autocad drawings\environmental\pe4717x\pe4760\pe4760-2r-surrounding land use plan.dwg

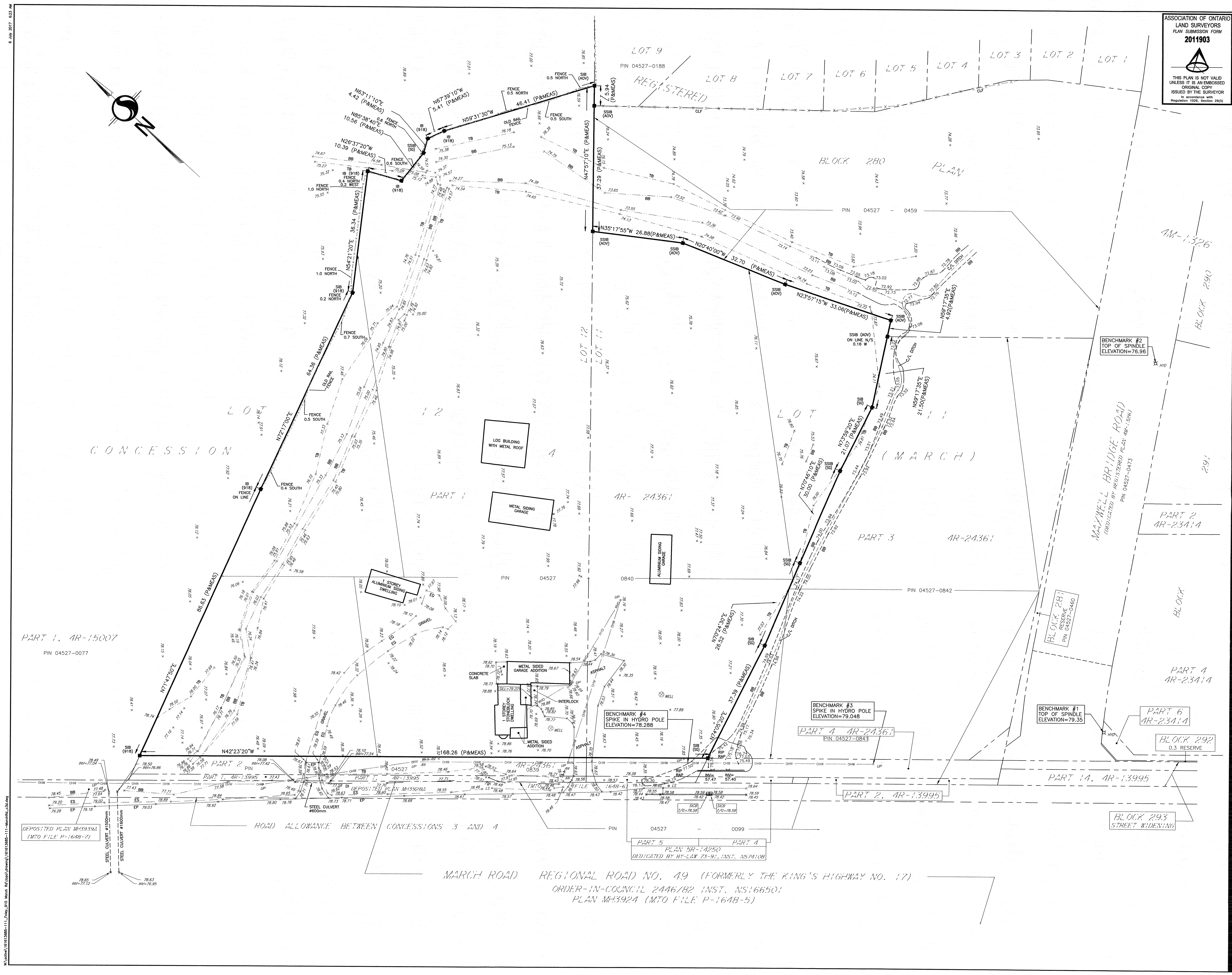
11x17

APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



Stantec

Stantec Geomatics Ltd.
400 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

TOPOGRAPHIC PLAN OF SURVEY

PART OF LOTS 11 & 12 CONCESSION 4

(GEOGRAPHIC TOWNSHIP OF MARCH)

CITY OF OTTAWA

Scale 1:500

10 0 10 20 30 METRES

METRIC CONVERSION

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

GRID SCALE CONVERSION

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99994.

BEARING NOTE

BEARINGS ARE GRID, DERIVED FROM CAN-NET VRS NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19773035 AND 19680191, CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83 (ORIGINAL).

19773035 N:5006060.42 E:324888.04
19680191 N:5033564.26 E:388064.94

ELEVATION NOTE

ELEVATIONS ARE GEODETIC BASED ON A SURVEY BY AOV DATED JULY 10, 2015. POSITION OF SITE BENCHMARKS #1 AND #2 AS SHOWN HEREON.

LEGEND

■	DENOTES	FOUND MONUMENTS
□	"	SET MONUMENTS
IB	"	IRON BAR
IBø	"	ROUND IRON BAR
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
CC	"	CUT CROSS
CP	"	CONCRETE PIN
WIT	"	WITNESS
PIN	"	PROPERTY IDENTIFICATION NUMBER
MEAS	"	MEASURED
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
SG	"	STANTEC GEOMATICS LTD.
ORP	"	OBSERVED REFERENCE POINT
P	"	PLAN 4R-24361
ES	"	EDGE OF SHOULDER
EP	"	EDGE OF ASPHALT
DI	"	DITCH
TB	"	TOP OF BANK
BB	"	BOTTOM OF BANK
EG	"	EDGE OF GRAVEL
T/G	"	TOP OF GRATE
◄ AN	"	ANCHOR
SICB	"	SIDE INLET CB
HYD	"	FIRE HYDRANT
○ UP	"	UTILITY POLE
○ LS	"	LIGHT STANDARD
⊕ WELL	"	WELL

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 27th DAY OF JUNE, 2017 .

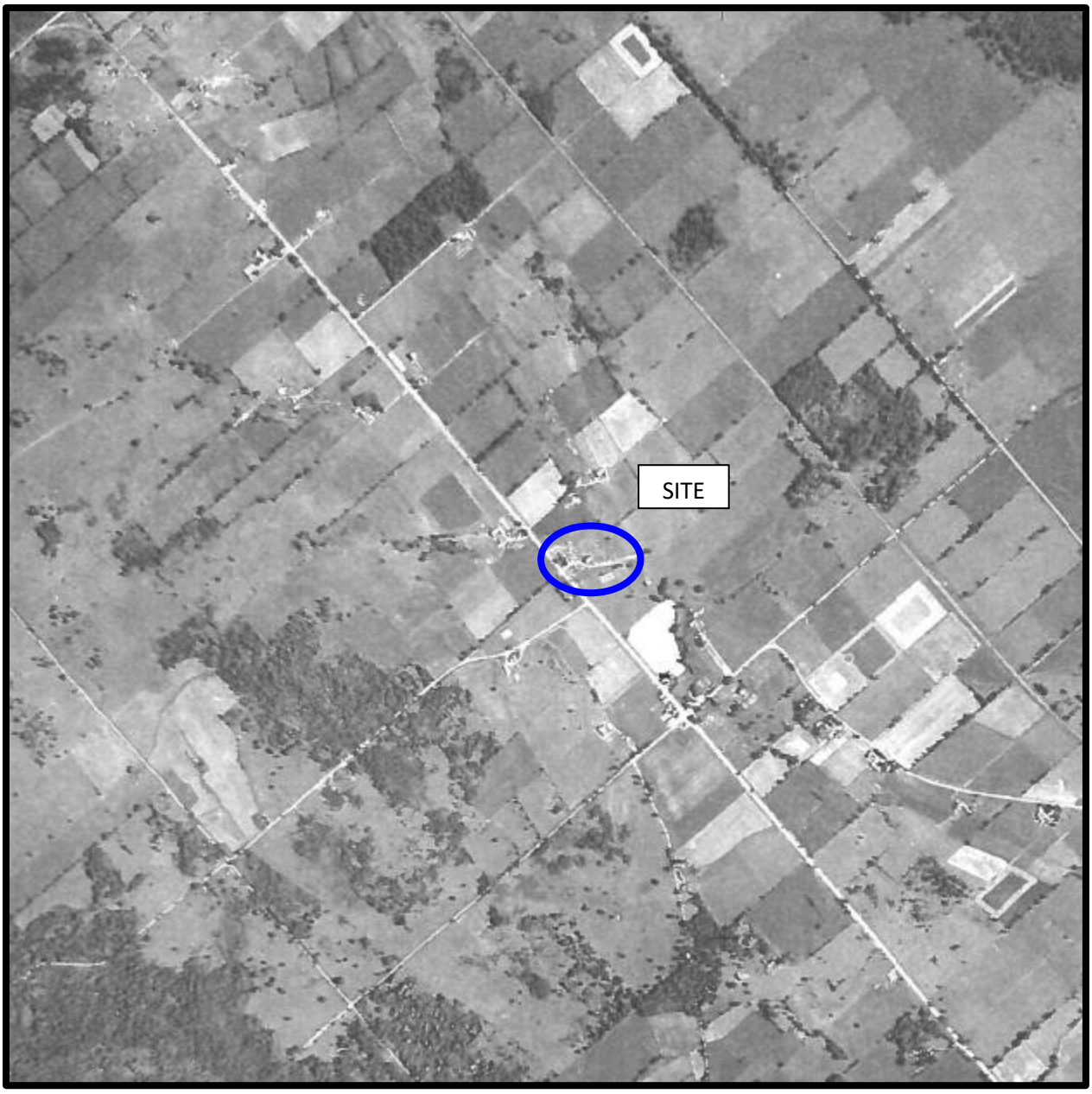
July 10/17
DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

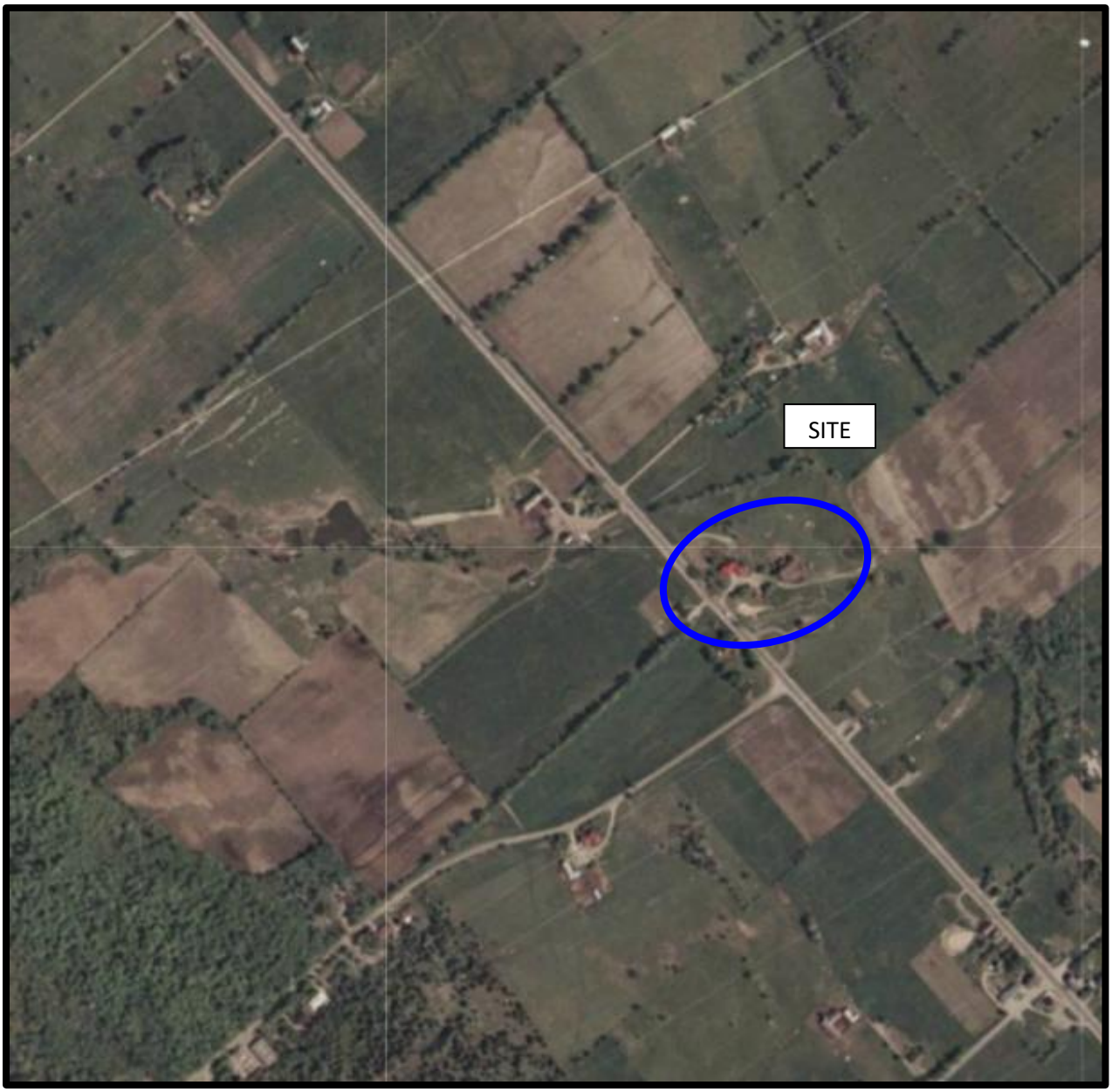
DRAWN: CEC CHECKED: * PM: BW FIELD: CA PROJECT No.: 161613685-111

AERIAL PHOTOGRAPH
1934

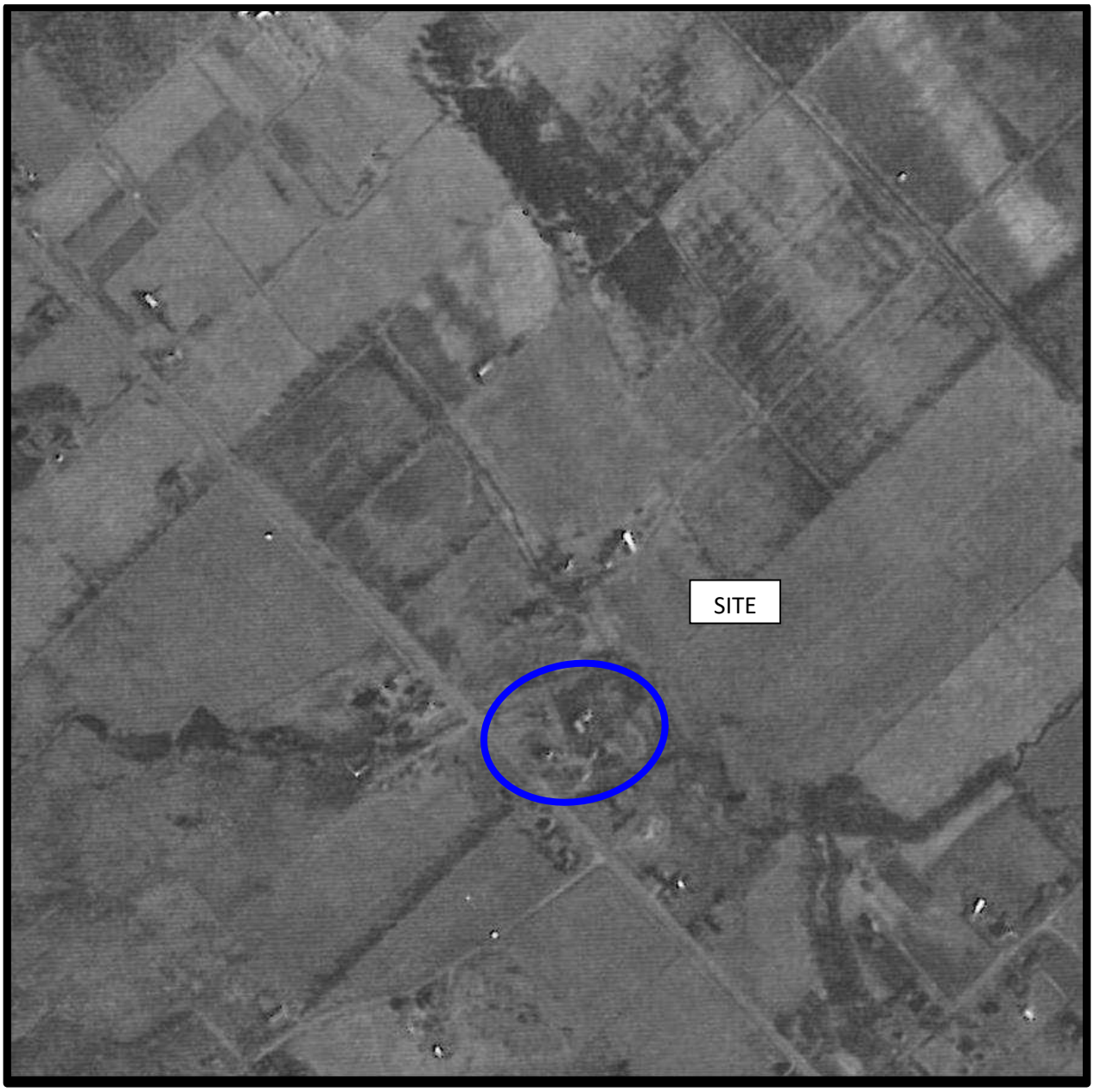
AERIAL PHOTOGRAPH
1945



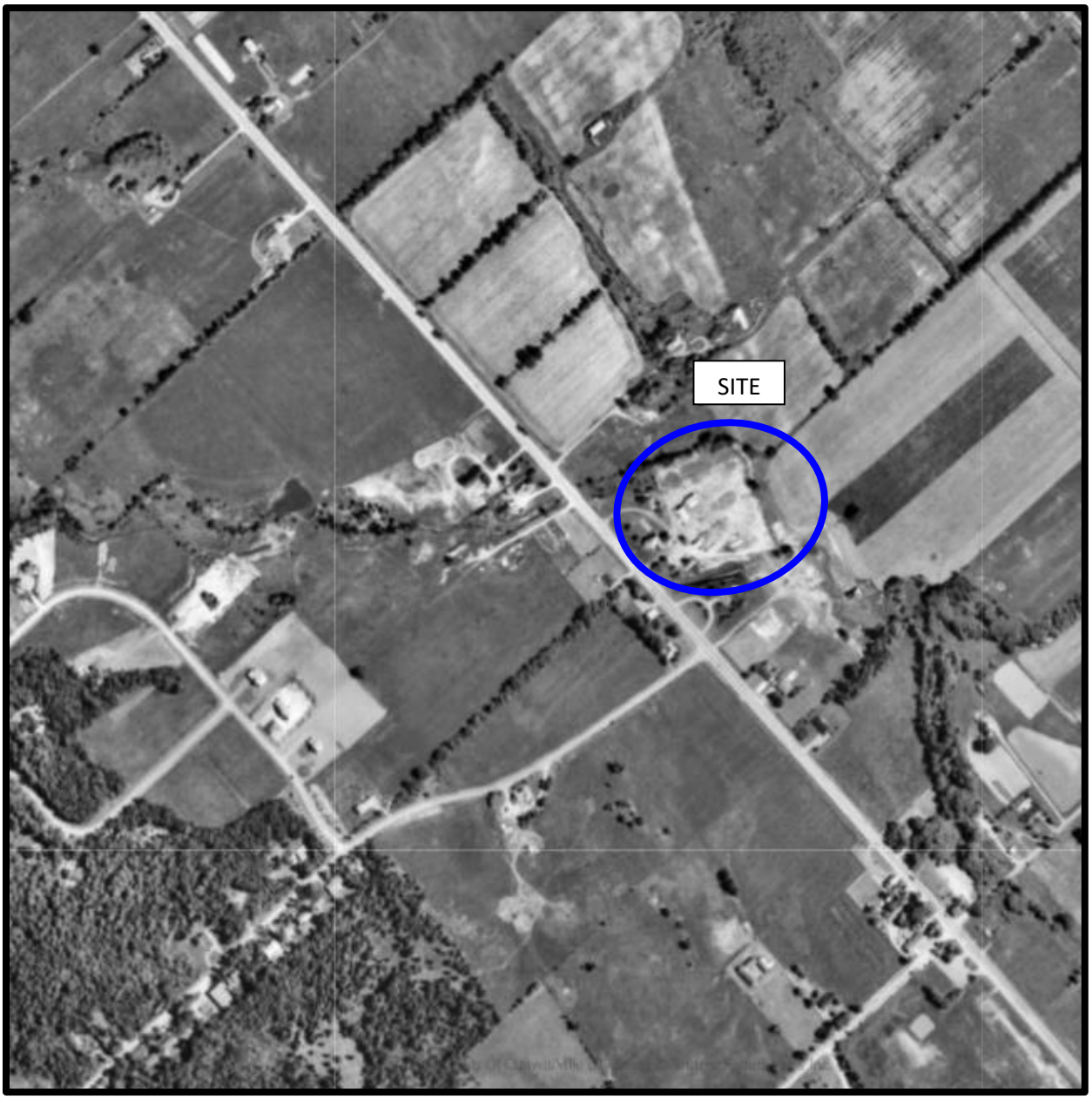
AERIAL PHOTOGRAPH
1955



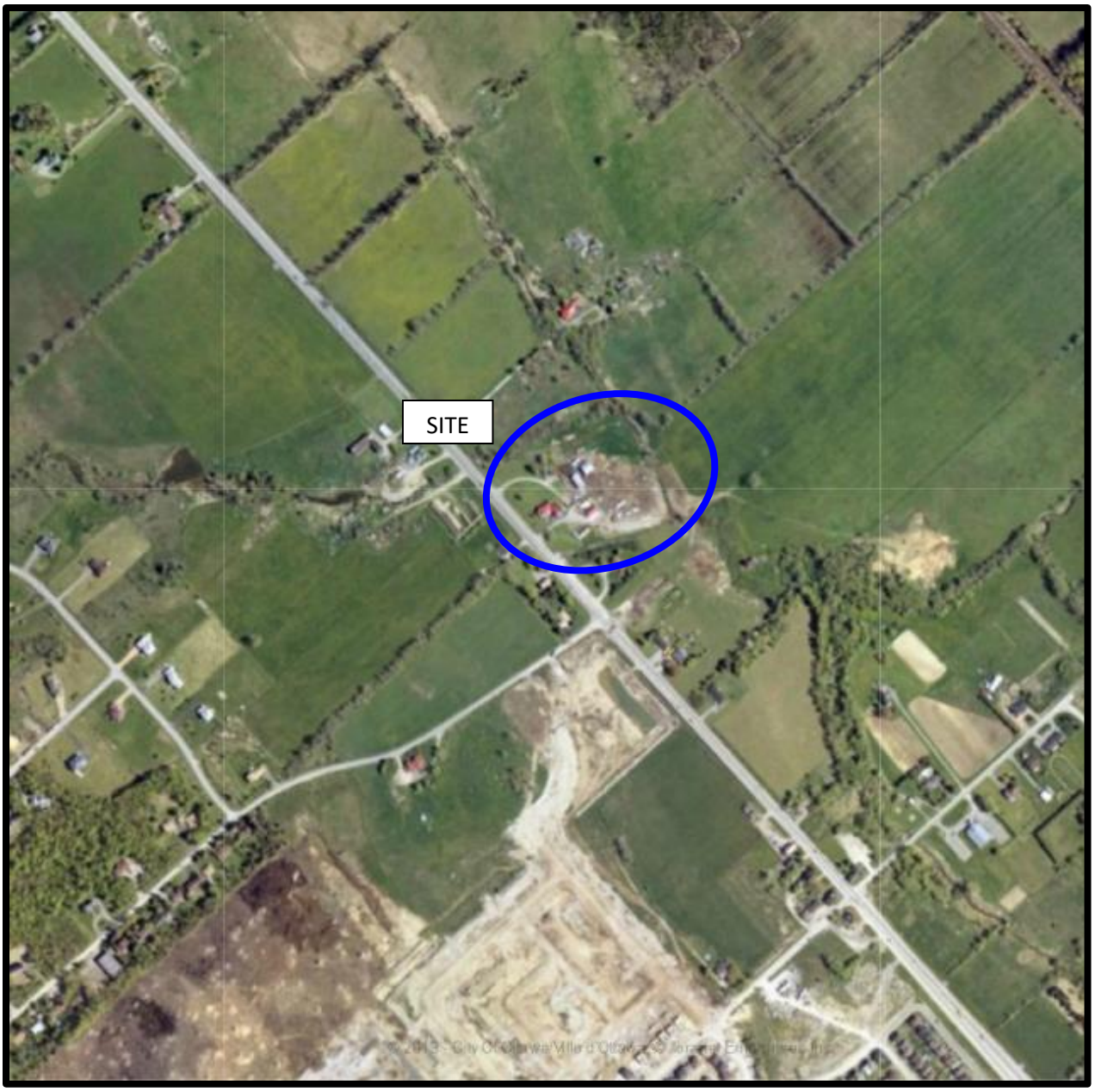
AERIAL PHOTOGRAPH
1976



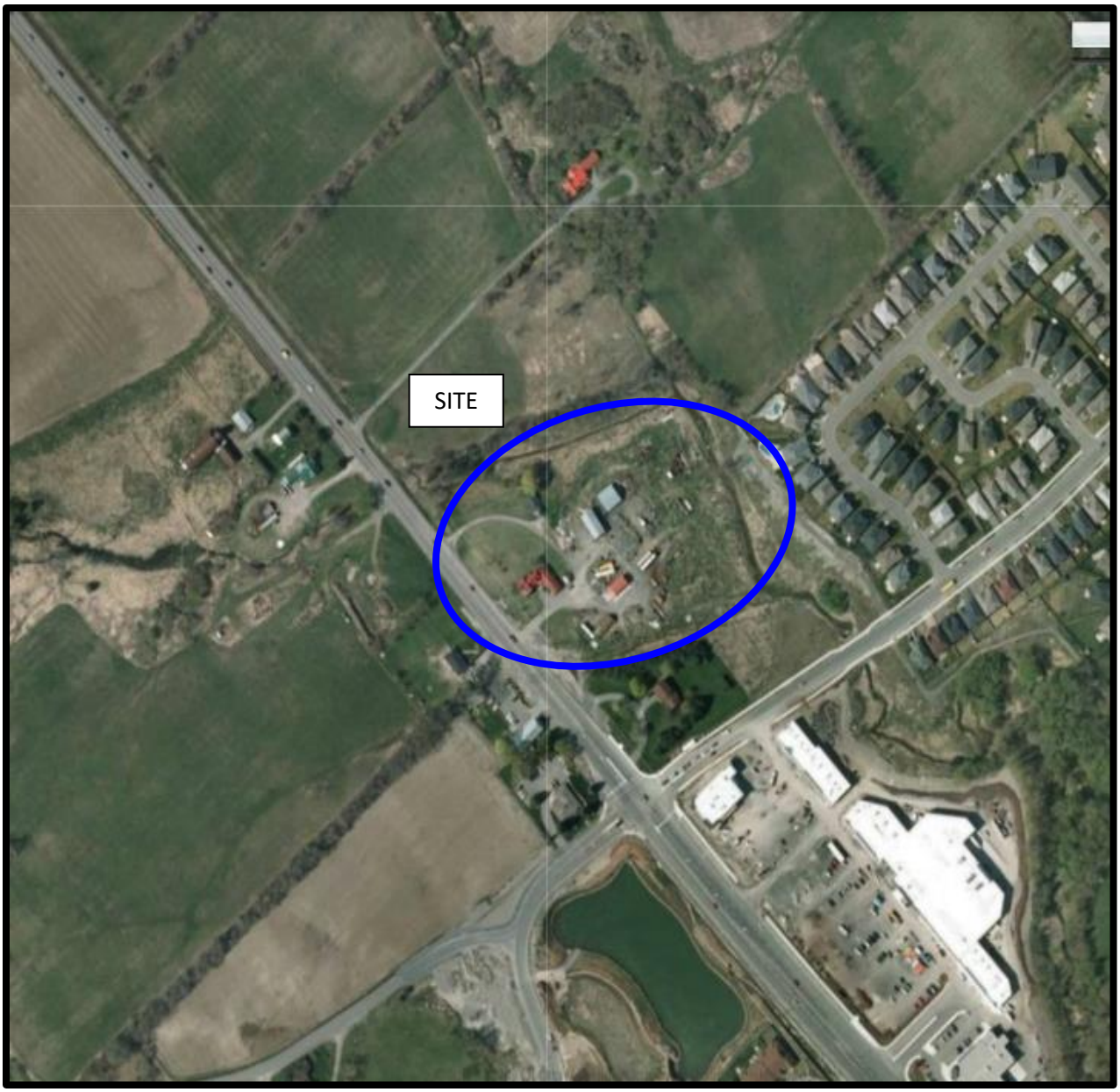
AERIAL PHOTOGRAPH
1989



AERIAL PHOTOGRAPH
1991

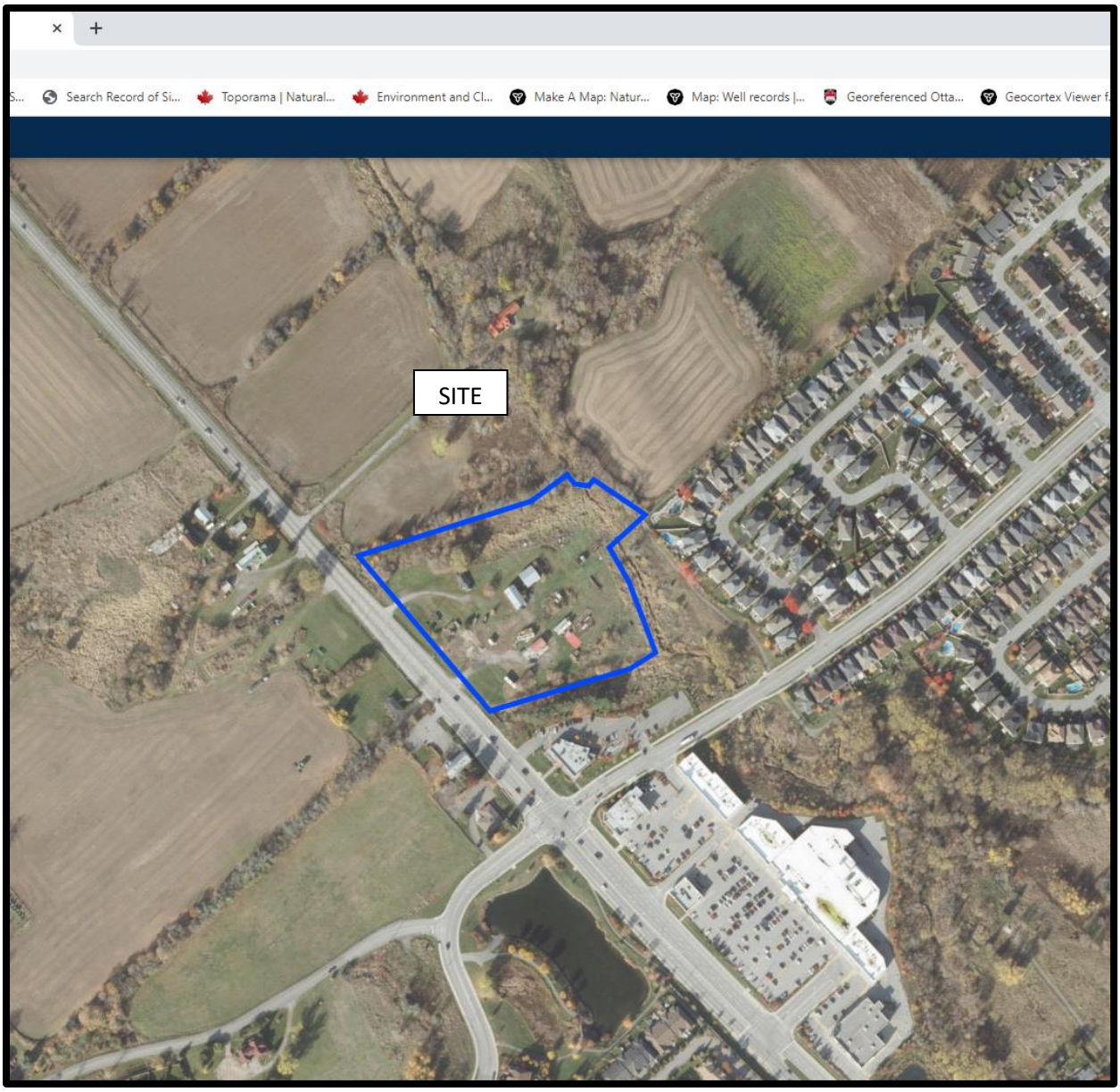


AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011

patersongroup



AERIAL PHOTOGRAPH
2019

Site Photographs

Photograph 1: Northern view of the subject site.

Photograph 2: View of the subject site, taken from the west side of the property.

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH REQUEST

MECP WATER WELL RECORDS

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI SEARCH

ERIS REPORT

Ministry of the Environment, Conservation and Parks

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Bureau de l'accès à l'information et de la protection de la vie privée
12e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075

Ontario

November 4, 2019

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5

Dear Mandy Witteman:

RE: ***Freedom of Information and Protection of Privacy Act* Request**
Our File # A-2019-06775, Your Reference PE4760

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 910 March Road, Ottawa.

After a thorough search through the files of the Ministry's 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, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is $30.00 for 1 hour of search time @ $30.00 per hour. **We have applied the $30.00 for this request from your initial payment.**

The District Office has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of $60.00 with no guarantee that records will be located responsive to your request. If you would like us to retrieve these files, please forward to me payment by cheque (made payable to the "Minister of Finance (FOI)") or credit card in the amount of $60.00. Credit card forms are available on the Ministry's website http://www.ontario.ca/environment-and-energy/freedom-information-request-form.

Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch and/or files retrieved from the Records Centre, the time for answering your request will be extended for an additional 30 days.

When remitting payment please quote our file number or attach a copy of this letter.

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

If you have any questions regarding this matter, please contact Dany Briollais at 416-314-4075.

Ontario

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (*) are mandatory.

Are you: *

☑ Submitting a new FOI Request for Property Information

☐ Paying a deposit or final fee for an existing FOI Request for Property Information

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) * 1900/01/01

To (yyyy/mm/dd) * 2021/08/11

Type of Record(s) *

☐ All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registrations

☐ Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also seeking supporting documents relating to the Approval or Registration.

Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly available on the Access Environment website at:
https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en.

Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSER).

- RSC records between 2004 to June 30, 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch
- RSC records filed after July 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en

☑ Other Specific Document(s)

Specific Documents

List of Documents. Please list the specific documents you are asking for and be as detailed as possible in your description. *

Inactive records in the the Records Centre Mississauga (The District Office).

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Section 2 – Requester Information

Last Name * witteman

First Name * mandy

Middle Initial

Business/Organization Name (if applicable or indicate "N/A") * Paterson Group Inc.

Project/Reference Number (if applicable) PE4706-2

Are you submitting this request on behalf of a client? *

☑ Yes ☐ No

Please upload an authorization/consent form from your client in Section 5 (Supporting Documentation)

Name of Client

Last Name * Lepine

First Name * Pascale

Business/Organization Name (if applicable or indicate "N/A") * Lepine Development

Mailing Address

Unit Number

Street Number * 154

Street Name * Colonnade Rd S

PO Box

City/Town * Ottawa

Province * ON

Postal Code * K2E 7J5

Telephone Number * 403-921-1157

ext.

Email Address * mwitteman@patersongroup.ca

Is there an alternate contact (e.g. office admin)? *

☐ Yes ☑ No

Section 3 – Current Property Address Information

Is the property a:

☐ Park ☐ Lake ☐ First Nation Band ☐ Wind Farm ☐ Federal Land ☐ Island ☐ Unsurveyed Land

Are you requesting information about multiple addresses? *

☐ Yes ☑ No

Property Address

Unit Number	Street Number	Street Name
	910	March Rd

Full Lot Number	Concession	Geographic Township

City/Town/Village *

Ottawa

Closest Intersection

March Road and Maxwell Bridge Road

Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

☐ Yes ☑ No

Section 5 – Supporting Documents

Please attach an authorization/consent form.

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

   Site plan.pdf

   Total File Size

   0.1 MB

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

316/5d

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 1514785 | MUNICIP. 15006 | CON. CØN | 04

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
West Carleton	March	4	[illegible]

[redacted] R.1 Kanata Ont.

DATE COMPLETED: DAY 01 MO. 07 YR. 75

23100 4 | ELEVATION 0255 4 | BASIN CODE 26

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		soft	0	25
Gray	sandstone		Hard	25	90

31 | 002560585 | 0090218 73

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0065	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
0084	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	0037
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		27	0090
	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	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER | PUMPING RATE 0015 GPM. | DURATION OF PUMPING 02 HOURS 00 MINS

1 ☒ PUMPING 2 ☐ RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
011 FEET	030 FEET	030 FEET	030 FEET	030 FEET	030 FEET

IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP | RECOMMENDED PUMP SETTING 030 FEET | RECOMMENDED PUMPING RATE 0005 GPM

GPM./FT. SPECIFIC CAPACITY

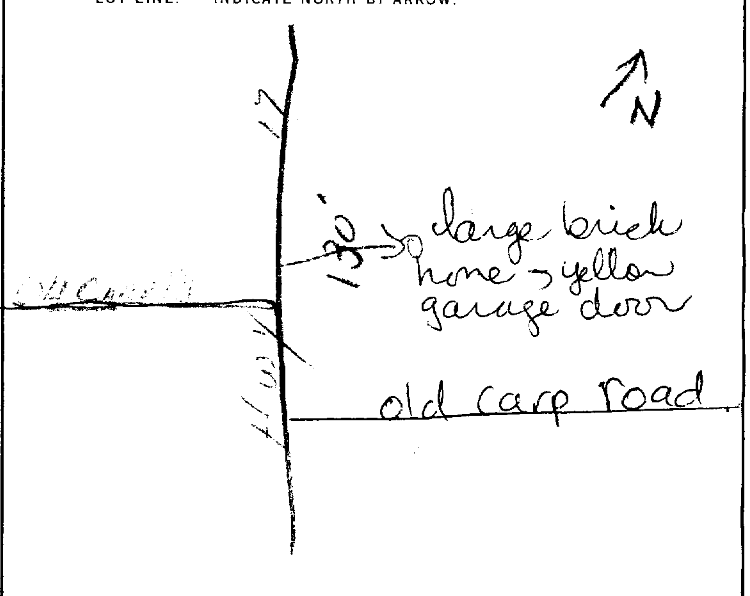
FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

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 5
1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR: Maple Leaf Drilling | LICENCE NUMBER: 3658
ADDRESS: 2107 - 465 Richmond Road Ottawa
NAME OF DRILLER OR BORER: R. Bisson | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Robert Bisson | SUBMISSION DATE: DAY 9 MO. 7 YR. 75

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3658 | DATE RECEIVED 230775
DATE OF INSPECTION 10/6/77 | INSPECTOR [illegible]
REMARKS: | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below) A 035395 / A035395

Well Record

Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only MUN ___ CON ___ LOT ___

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton	LKanata	12	4
RR#/Street Number/Name	City/Town/Village		Site/Compartment/Block/Tract etc.
910 March Road	Kanata		

GPS Reading: NAD 83 | Zone 18 | Easting 42 65 67 | Northing 502 33 16 | Unit Make/Model: Garmin | Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Brown	Clay		Packed	0	1.82
Gray	Limestone		Hard	1.82	12.19
Gray & White	Sandstone		Hard	12.19	27.43

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	7.31	22.75
7.31	27.43	15.23

Water Record

Water found at Metres / Kind of Water

24.99 ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: not tested

___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: ___

___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: ___

After test of well yield, water was ☒ Clear and sediment free ☐ Other, specify ___

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
Casing				
15.86	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	+ .45	10.36
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
15.23	☒ Open hole		10.36	27.43

Test of Well Yield

Pumping test method: submersible

Pump intake set at - (metres) 21.33

Pumping rate - (litres/min) 54.6

Duration of pumping 3 hrs + 30 min

Final water level end of pumping 6.60 metres

Recommended pump type: ☐ Shallow ☒ Deep

Recommended pump depth. 15.23 metres

Recommended pump rate. 45.5 (litres/min)

If flowing give rate - (litres/min)

If pumping discontinued, give reason.

Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level	6.02		
1	6.36	1	6.20
2	6.40	2	6.19
3	6.44	3	6.19
4	6.45	4	6.18
5	6.47	5	6.18
10	6.50	10	6.15
15	6.51	15	6.13
20	6.52	20	6.13
25	6.52	25	6.13
30	6.53	30	6.12
40	6.53	40	6.12
50	6.54	50	6.12
60	6.55	60	6.12

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
10.36	0	Grouted - Bentonite Slurry	.42m3

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☒ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: Capital Water Supply Ltd. | Well Contractor's Licence No.: 1558

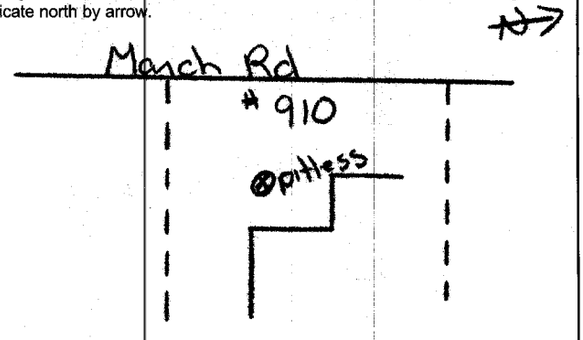
Business Address (street name, number, city etc.): Box 490 Stittsville, Ontario K2S 1A6

Name of Well Technician (last name, first name): Miller; Stephen | Well Technician's Licence No.: T0097

Signature of Technician/Contractor: x [signature] | Date Submitted YYYY MM DD: 2006 6 29

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.



Audit No. Z 46997

Date Well Completed YYYY MM DD: 2006 6 27

Was the well owner's information package delivered? ☒ Yes ☐ No

Date Delivered YYYY MM DD: 2006 6 28

Ministry Use Only

Data Source | Contractor: 1558

Date Received YYYY MM DD: JUL 11 2006 | Date of Inspection YYYY MM DD

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐ *Cette formule est disponible en français*

UTM 18 Z 426560 E

5 R 5022940 N

Elev. 4 R 0260

Basin 25

, 31G5d

The Ontario Water Resources Commission Act

WATER WELL RECORD

WATER RESOURCES DIVISION
JUN 25 1965
ONTARIO WATER RESOURCES COMMISSION

15 No. 3566

County or District Carleton Township, Village, Town or City March

Con. 111 Lot Pt. of 11 Date completed 28 May (day) month 1965 year)

[redacted]ess South March, Ont.

Casing and Screen Record

Inside diameter of casing 15' of 5"

Total length of casing 15'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

Pumping Test

Static level 7'

Test-pumping rate 5 GPM G.P.M.

Pumping level 17'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 5 GPM G.P.M.

with pump setting of 25' feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0'	11'		
Red Granite	11'	~~50'~~ 43'	~~50'~~ 43'	fresh

For what purpose(s) is the water to be used? New Home

Is well on upland, in valley, or on hillside? Upland

Drilling or Boring Firm Blair Phillips Drilling Co. Ltd.

Address Ottawa

Licence Number ~~1079~~ 1815

Name of Driller or Borer J. Moore

Address Kars, Ont.

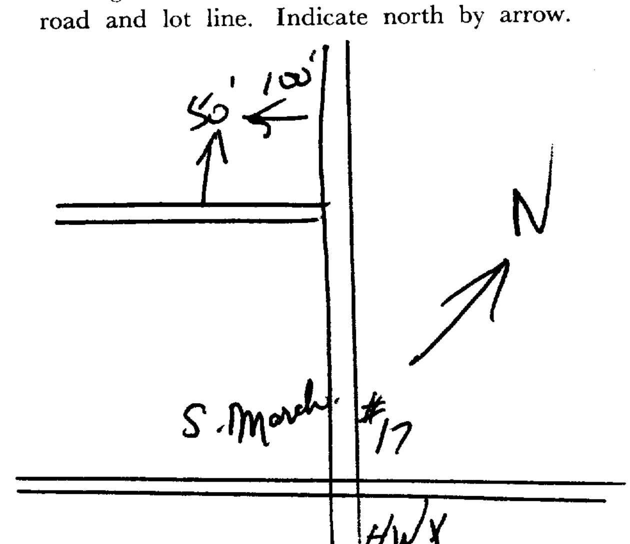
Date 28 May 1965

(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



OWRC COPY

388A

31G5d

UTM 18 | 426430 E

Co 5 R 5023105 N

Elev. 4 R 0260

Basin 25 | L

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Carleton
Township, Village, Town or City: March

Con: 111 Lot: 12
Date completed: 23 (day) May (month) 1963 (year)

[redacted]ess: 716 Edison Ave OTTawa

Casing and Screen Record

Inside diameter of casing	6 1/4"
Total length of casing	20'
Type of screen	none
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	6"

Pumping Test

Static level	15
Test-pumping rate	5 G.P.M.
Pumping level	40'
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	50' feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock	0	12		
LimesTone	12	38		
Sandstone	38	60	60	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: McLean WaTer Supply LTd.

Address: 1532 Raven Ave OTTawa, OnT.

Licence Number: 1090

Name of Driller or Borer: A. Scharf

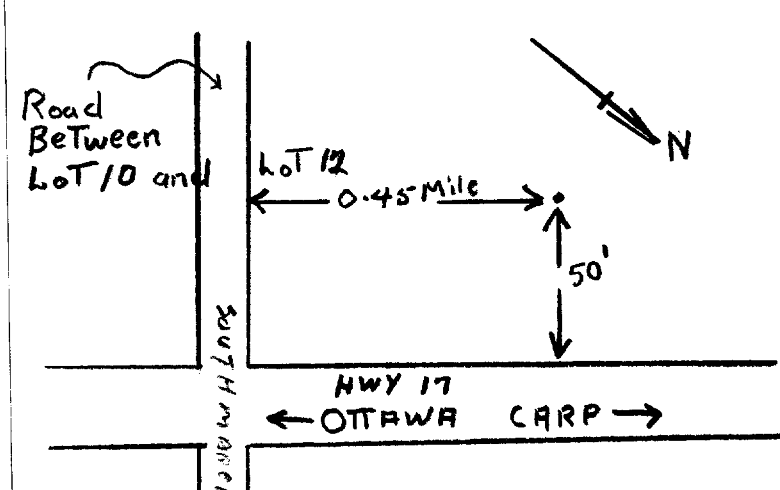
Address:

Date: May 23 /63

CD McLean
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138

OWRC COPY

UTM 18 Z 4216660 E
Co 5 R 5022920 N
Elev 4 R 02145
Basin 25

31G5d

311

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, ~~Village, Town or City~~ March

Con. 4 Lot 11 Date completed 12 (day) Nov (month) 61 (year)

[redacted]dress Britannia Bay

Casing and Screen Record

Inside diameter of casing	4"
Total length of casing	24'
Type of screen	—
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	4"

Pumping Test

Static level	10'
Test-pumping rate	6 G.P.M.
Pumping level	14'
Duration of test pumping	1/2 hr
Water clear or cloudy at end of test	clearing
Recommended pumping rate	5 G.P.M.
with pump setting of	30 feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0	16		
hardpan	16	22		
sandstone	22	38	37	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 244

Name of Driller or Borer Ben E Sparks

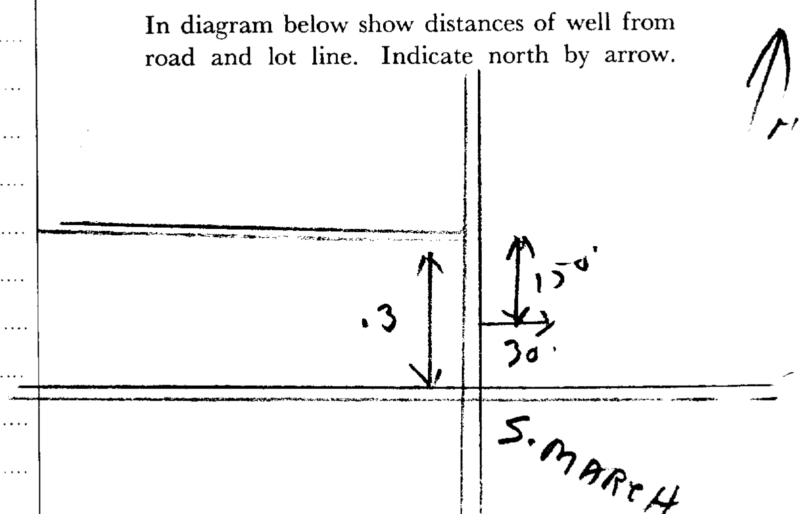
Address

Date Feb 7/62

Ben E Sparks
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M Sets 60-5930

OWRC COPY

CSS.S8

UTM 1|8 Z 4|2|6|4|6|5 E
C 5 R 5|0|2|3|2|7|0 N
Elev. 4 R 0|2|6|0
Basin 2|5 | L 1 1

Aid

31G5d

№ 15 3414

e

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Carl — Township, Village, Town or City: March

Con. 4 — Lot 12 — Date completed 6 (day) Feb (month) 64 (year)

[redacted]ress South March

Casing and Screen Record

Inside diameter of casing: 5"
Total length of casing: 18'
Type of screen:
Length of screen:
Depth to top of screen:
Diameter of finished hole: 5"

Pumping Test

Static level: 11'
Test-pumping rate: 10 G.P.M.
Pumping level: 11'
Duration of test pumping: 1 hr
Water clear or cloudy at end of test: cloudy
Recommended pumping rate: 5 G.P.M.
with pump setting of 40' feet below ground surface

Well Log / **Water Record**

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & boulders	0	9	50	fresh
Sandstone	9	40		
granite	40	51		

For what purpose(s) is the water to be used? old house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm: Capital Water Supply

Address: 1243 Heron Rd Ottawa

Licence Number: 1223

Name of Driller or Borer: M Kavanagh

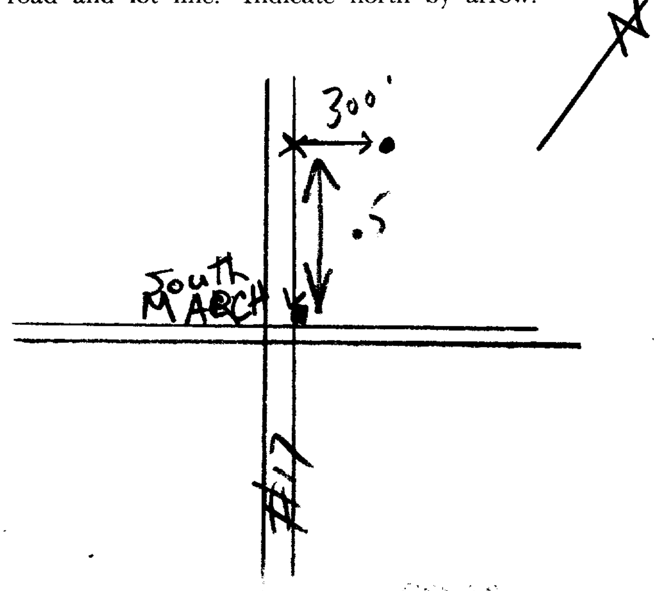
Address:

Date: 9/3/64

Walter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138

OWRC COPY BUNGALOW - IMITATION GREY SIDING.

,M [1][8][2] [4][2][6][6][10] Con IV Lot 11 CODED

1510247

[4]R [5][0][2][2][9][7][0]

lev. [5]R [0][2][5][6]

The Ontario Water Resources Commission Act

WATER WELL RECORD

sin [2][5]

County or District Peel Township, Village, Town or City March

Con. IV Lot 11 Date completed 11 (day) June (month) 1969 (year)

Owner M Holtzner Ltd (print in block letters) Address Hazeldean Ont.

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 28'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

DIVISION OF WATER RESOURCES
OCT 30 1969
ONTARIO WATER RESOURCES COMMISSION

Pumping Test

Static level 5

Test-pumping rate 10 G.P.M.

Pumping level 9

Duration of test pumping 1 hr

Water clear or cloudy at end of test

Recommended pumping rate 5 G.P.M.

with pump setting of 30 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	25	60	fresh
sandstone	25	62		

For what purpose(s) is the water to be used? household

Is well on upland, in valley, or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr Ottawa 6

Licence Number 3216

Name of Driller or Borer B Acres

Address

Date 11 June 1969

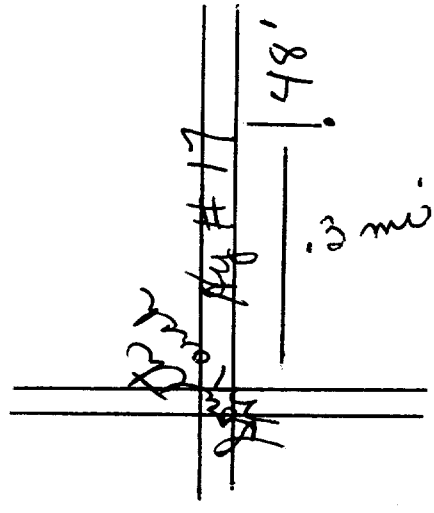
Walter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.58

The Ontario Water Resources Commission Act

WATER WELL RECORD

1510445 316 / 4 / 50

Water management in Ontario

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11

MUNICIP. 15006 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	3	011

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Marchmount Const.	South March	DAY 04 MO. 08 YR. 69

21 UTM ZONE 18 EASTING 426480 NORTHING 5022800 RC. 4 ELEVATION 0255 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
Brown	Sandstone			0	65
White	Limestone			65	84

31 0065618 0084115

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0075	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
05	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	I88	0	20 0020
	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			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: 0006 GPM. DURATION OF PUMPING: 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
030 FEET	070 FEET	050 FEET	070 FEET	070 FEET	070 FEET

IF FLOWING, GIVE RATE: GPM. PUMP INTAKE SET AT: 70 FEET

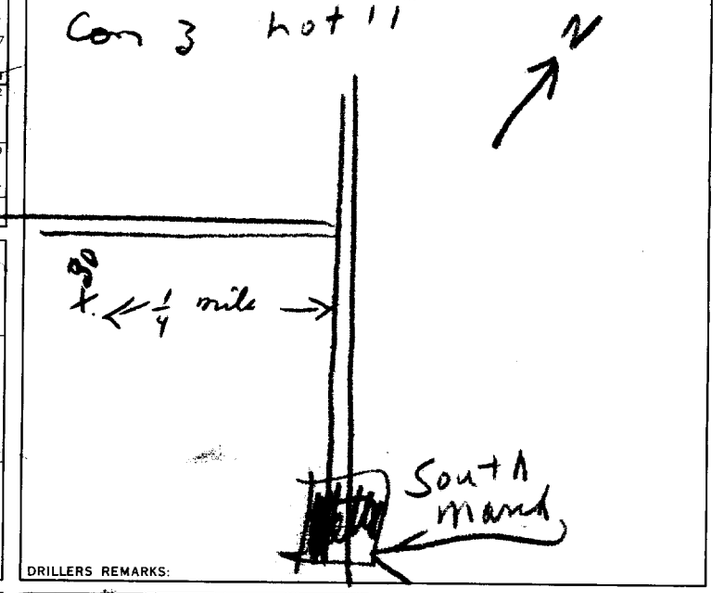
WATER AT END OF TEST: ☒ 1 CLEAR ☐ 2 CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP RECOMMENDED PUMP SETTING: FEET RECOMMENDED PUMPING RATE: 0005 GPM.

50-53 0002 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; ☐ 5 COMMERCIAL; ☐ 6 MUNICIPAL; ☐ 7 PUBLIC SUPPLY; ☐ 8 COOLING OR AIR CONDITIONING; ☐ OTHER; ☐ 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: Saunders Well Drilling — LICENCE NUMBER: 3480

ADDRESS: Arnpri r

NAME OF DRILLER OR BORER: T Obr.en — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Robert Saunders — SUBMISSION DATE: DAY 4 MO. AUG YR. 69

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 4724 — DATE RECEIVED 63-68: 210170

DATE OF INSPECTION — INSPECTOR

REMARKS: CSS.SS

J.B.

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The Ontario Water Resources Commission Act

WATER WELL RECORD

3 I G S d

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
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11 | 1511444 | MUNICIP. 15996 | CON. Con

COUNTY OR DISTRICT: Carleton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March | CON., BLOCK, TRACT, SURVEY, ETC.: Con 4 | LOT: 011

[redacted] RR#7, Ottawa | DATE COMPLETED: DAY 07 MO July YR 71

UTM: 022880 | RC: 4 | ELEVATION: 0255 | 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
grey	clay			0	16
white	sandstone			16	58

31 | 00/6/205 | 00581/18

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0058	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
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0021 24
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0058
	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: 0021 GPM. | DURATION OF PUMPING: 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
006 FEET	015 FEET	012 FEET	015 FEET	015 FEET	015 FEET

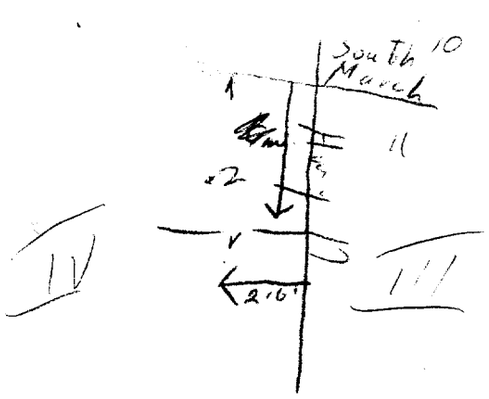
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☒ SHALLOW ☐ DEEP	020 FEET	0010 GPM.

50-53: 002.3 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 | 5 ☐ COMMERCIAL | 6 ☐ MUNICIPAL | 7 ☐ PUBLIC SUPPLY | 8 ☐ COOLING OR AIR CONDITIONING | ☐ OTHER | 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: Henry Mann Well Drilling | LICENCE NUMBER: 3641
ADDRESS: Box 324 Richmond
NAME OF DRILLER OR BORER: Henry Mann | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Henry Mann | SUBMISSION DATE: DAY 2 MO July YR 71

OWRC COPY

OFFICE USE ONLY

DATA SOURCE (58): 1 | CONTRACTOR (59-62): 3644 | DATE RECEIVED (63-68): 081071
DATE OF INSPECTION | INSPECTOR
REMARKS: | P | W1

31G5d

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

1. PRINT ONLY IN SPACES PROVIDED
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11 | 1516260 | MUNICIP. 15006 | CON. CON | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	3	012 / 12

[redacted] 6 Primsose Ave. Ottawa, Ontario

DATE COMPLETED: DAY 04 MO 10 YR. 77

[redacted] 23140 | 4 | ELEVATION 0260 | RC. 4 | BASIN CODE 26

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		packed	0	9
brown	clay	boulders	packed	9	11
grey	limestone	sandstone	hard	11	35
grey	sandstone			35	115

31 | 0009605 19 | 0011605 1379 | 0035 2151873 | 0115 218
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113	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~~ 06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0022
			22	~~115~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0115
	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	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 0015 GPM
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	070 FEET	070 FEET	070 FEET	070 FEET	070 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

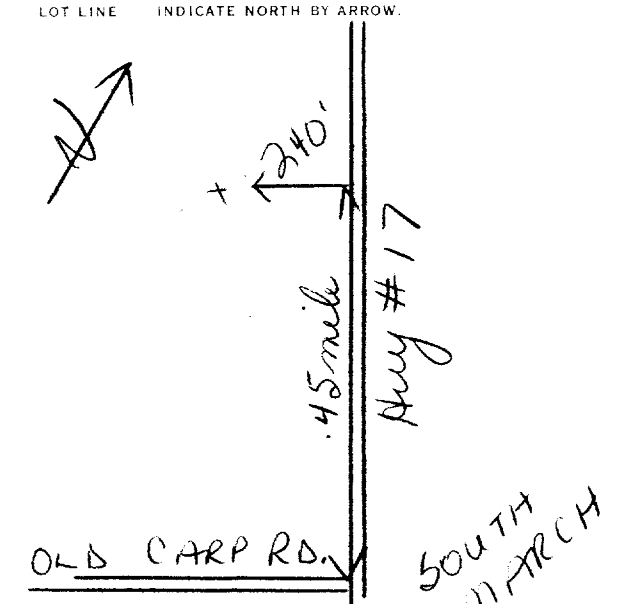
IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 075 FEET
RECOMMENDED PUMPING RATE: 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 1
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 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: W. Kavanagh LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Walter Kavanagh SUBMISSION DATE: DAY 5 MO. 10 YR. 77

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1558 | DATE RECEIVED: 171177
DATE OF INSPECTION: 22/05/79 June 29/78 | INSPECTOR: DN
REMARKS: New Brown Brick Bunglow
P
WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

31G5d

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 1516836

MUNICIP. 15006 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	March	3	01/2

[redacted] l Carp Rd. RR#1 — DATE COMPLETED: DAY 28 MO. 11 YR. 78

[redacted] 22900 Kanata, Ont. ELEVATION 0270 BASIN CODE 26

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		loose	0	2
Grey	Sandstone	white layers	hard	2	125

31 0002628771 0125218747

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0120	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4 06	☒ STEEL	188	0	22 0022
06 5 7/16	☒ OPEN HOLE		22	0055 55
06 5 7/16	☒ OPEN HOLE		55	0125 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	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☒ PUMP ☐ BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
025 FEET	050 FEET	050 FEET	050 FEET	050 FEET	050 FEET

WATER LEVELS DURING: ☒ PUMPING ☐ RECOVERY

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: 075 FEET

RECOMMENDED PUMPING RATE: 0005 GPM

FINAL STATUS OF WELL: 1

☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE: 01

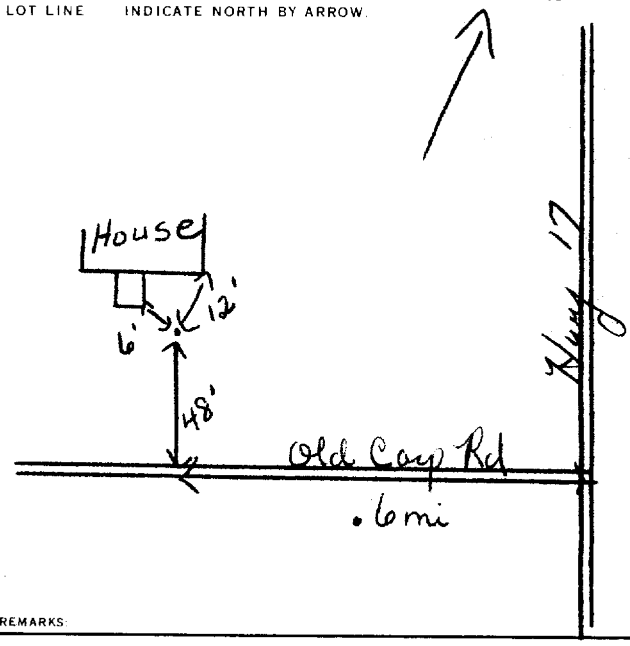
☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING: 5

☐ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☒ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LTD — LICENCE NUMBER: 1558

ADDRESS: Box 490, Stittsville, Ontario

NAME OF DRILLER OR BORER: S Miller — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: H Kavanagh — SUBMISSION DATE: DAY 9 MO. 11 YR. 78

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 1558 — DATE RECEIVED: 181278

DATE OF INSPECTION: 22/05/79 — INSPECTOR: Km Ld

REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77

Ministry of the Environment
Ontario

31 G 5d

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 1517937 MUNICIP. 15006 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Kanata - MARCH TWP.	Conc. III	011 / 11

South March, Ontario.

DATE COMPLETED: DAY 17 MO. 07 YR. 82

NORTHING 022799 RC 4 ELEVATION 0280 RC 4 BASIN CODE 26

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	Gravel	Fill	0	3
Gray	Sandstone		Medium	3	53

31 0003628 11 01 0053218 78

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0050'	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 (6 1/4)	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	188	0	0022
06 (5 1/16)	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE		22	0053
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ 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	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☒ PUMP ☐ BAILER — PUMPING RATE 0015 GPM — DURATION OF PUMPING 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 (19) FEET	030 FEET	030 FEET	030 FEET	030 FEET	030 FEET

WATER LEVELS DURING: ☒ PUMPING ☐ RECOVERY

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 040 FEET — RECOMMENDED PUMPING RATE 0005 GPM

FINAL STATUS OF WELL 1

☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE 01

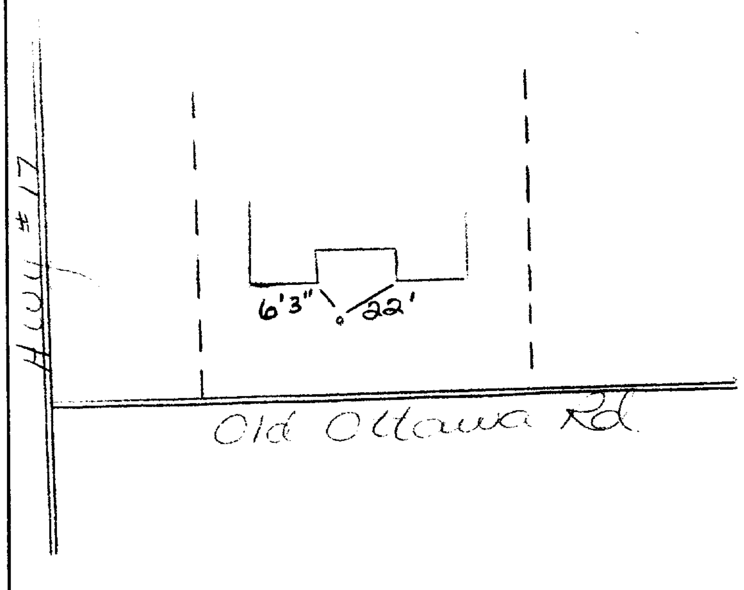
☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING 5

☐ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☒ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. — LICENCE NUMBER 1558
ADDRESS: Box 490; Stittsville, Ont. K0A 3G0
NAME OF DRILLER OR BORER: S. Miller/ W. Kavanagh — LICENCE NUMBER
SIGNATURE OF CONTRACTOR: W. Kavanagh — SUBMISSION DATE DAY 21 MO. 07 YR. 82

OFFICE USE ONLY

DATA SOURCE 1 — CONTRACTOR 1558 — DATE RECEIVED 051082
DATE OF INSPECTION — INSPECTOR
REMARKS

FORM NO. 0506—4—77 FORM 7

MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below)
A 035457
A035457

Well Record
Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only
MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton — RR#/Street Number/Name
Kanata — City/Town/Village
Lot: 3 — Concession: 11 — Site/Compartment/Block/Tract etc.
927 March Road
Kanata

GPS Reading: NAD 83 | Zone 18 | Easting 42 63 76 | Northing 50 233 79
Unit Make/Model: Garmin
Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Brown	Clay		Packed	0	1.98
Gray	Limestone		Hard	1.98	12.19
Gray & White	Sandstone		Hard	12.19	22.24

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	9.75	22.75
9.75	22.24	15.55

Water Record

Water found at ___ Metres / Kind of Water

14.02 m	☐ Fresh	☐ Sulphur	☐ Gas ☐ Salty ☐ Minerals ☐ Other:
19.81 m	☐ Fresh	☐ Sulphur	☐ Gas ☐ Salty ☐ Minerals ☐ Other:
21.94 m	☐ Fresh	☐ Sulphur	☐ Gas ☐ Salty ☐ Minerals ☐ Other: not tested

After test of well yield, water was
☒ Clear and sediment free
☐ Other, specify

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
15.86	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	+ .45	9.75
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
15.55	☒ Open hole		9.75	22.24

Test of Well Yield

Pumping test method: submersible
Pump intake set at - (metres) 19.81
Pumping rate - (litres/min) 54.6
Duration of pumping 3 hrs + 30 min
Final water level end of pumping 5.05 metres
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump depth. 15.23 metres
Recommended pump rate. 45.5 (litres/min)
If flowing give rate - (litres/min)
If pumping discontinued, give reason.

Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level	3.60		
1	3.73	1	4.90
2	3.81	2	4.85
3	3.81	3	4.82
4	3.85	4	4.78
5	3.87	5	4.75
10	4.03	10	4.61
15	4.13	15	4.52
20	4.22	20	4.45
25	4.30	25	4.37
30	4.36	30	4.31
40	4.47	40	4.22
50	4.57	50	4.15
60	4.64	60	4.08

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
9.75	0	Grouted - Bentonite Slurry	.254m3

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☒ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

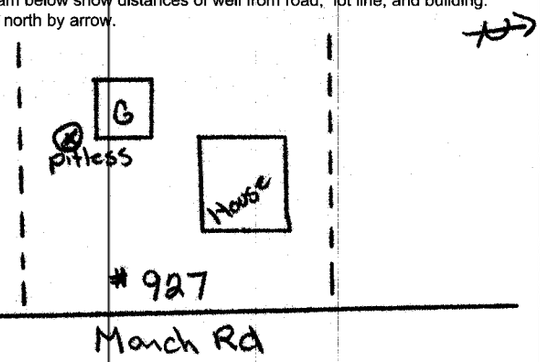
☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: Capital Water Supply Ltd.
Well Contractor's Licence No.: 1558
Business Address (street name, number, city etc.): Box 490 Stittsville, Ontario K2S 1A6
Name of Well Technician (last name, first name): Miller; Stephen
Well Technician's Licence No.: T0097
Signature of Technician/Contractor: x
Date Submitted YYYY MM DD: 2006 6 29

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.



Audit No. Z 46998
Date Well Completed YYYY MM DD: 2006 6 27
Was the well owner's information package delivered? ☒ Yes ☐ No
Date Delivered YYYY MM DD: 2006 6 28

Ministry Use Only

Data Source
Contractor: 1558
Date Received YYYY MM DD: JUL 1 1 2006
Date of Inspection YYYY MM DD
Remarks
Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐ *Cette formule est disponible en français*

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below)

Well Record

Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

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- Please print clearly in blue or black ink only.

Ministry Use Only

MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton	Kanata	11	4
RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.	
941 March Rd.	Kanata		

GPS Reading: NAD 83 | Zone 18 | Easting 426390 | Northing 5023443

Unit Make/Model: Garmin

Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)

Hole Diameter

Depth From	Depth To (Metres)	Diameter Centimetres

Water Record

Water found at ___ Metres / Kind of Water

___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was
☐ Clear and sediment free
☐ Other, specify

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ___hrs +___ min	2		2	
Final water level end of pumping ___metres	3		3	
Recommended pump type. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ___metres	5		5	
Recommended pump rate. (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
If pumping discontinued, give reason.	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☐ Annular space ☒ Abandonment

Depth set at - Metres From	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6.09	0	Grouted Bentonite Slurry	2inch hole

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☒ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558

Business Address (street name, number, city etc.)
box 490 Stittsville Ontario K2S 1A6

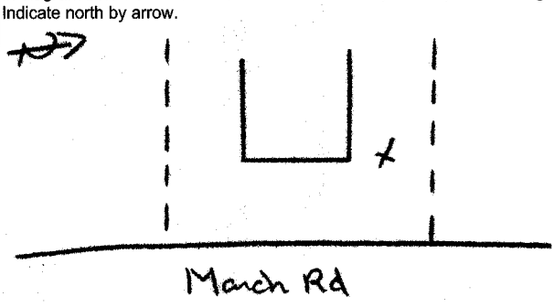
Name of Well Technician (last name, first name)	Well Technician's Licence No.
Miller Stephen	T0097

Signature of Technician/Contractor: x [signature]

Date Submitted YYYY MM DD: 2006 7 20

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.



Audit No. Z 47023

Date Well Completed YYYY MM DD: 2006 7 20

Was the well owner's information package delivered? ☐ Yes ☒ No

Date Delivered YYYY MM DD

Ministry Use Only

Data Source

Contractor: 1558

Date Received YYYY MM DD: AUG 25 2006

Date of Inspection YYYY MM DD

Remarks

Well Record Number

0506E (09/03)

Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below)
A041907
A 041907

Well Record
Regulation 903 Ontario Water Resources Act

page ___ of ___

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- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only
MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton | Kanata | 11 | 4

RR#/Street Number/Name: 941 March Rd.
City/Town/Village: Kanata
Site/Compartment/Block/Tract etc.:

GPS Reading: NAD 83 | Zone 18 | Easting 426390 | Northing 5023443
Unit Make/Model: Garmin
Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Brown	Clay		Packed	0	2.74
grey	limestone		Hard	2.74	11.58
grey&white	sandstone			11.58	22.24

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	6.40	22.75
6.40	22.24	15.23

Water Record

Water found at ___ Metres / Kind of Water
20.72 ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: NOT TESTED
___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was
☒ Clear and sediment free
☐ Other, specify

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
15.86	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	+.45	6.40
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
15.23	☒ Open hole		6.40	22.24

Test of Well Yield

Pumping test method: Submersible
Pump intake set at - (metres) 18.28
Pumping rate - (litres/min) 50.05
Duration of pumping 1 hrs + ___ min
Final water level end of pumping 7.01 metres
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump depth 15.23 metres
Recommended pump rate. 45.5 (litres/min)
If flowing give rate - (litres/min)
If pumping discontinued, give reason.

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level				
1	5.83		1	5.46
2	6.08		2	5.41
3	6.21		3	5.39
4	6.30		4	5.36
5	6.35		5	5.34
10	6.50		10	5.23
15	6.62		15	5.16
20	6.69		20	5.14
25	6.76		25	5.12
30	6.79		30	5.10
40	6.88		40	5.07
50	6.94		50	5.04
60	7.01		60	5.02

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6.40	0	Grouted Bentonite Slurry	.21m3

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

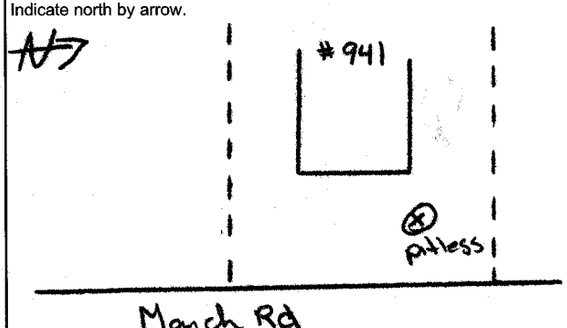
☒ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.



Audit No. Z 47021
Date Well Completed: YYYY 2006 | MM 7 | DD 18
Was the well owner's information package delivered? ☒ Yes ☐ No
Date Delivered: YYYY 2006 | MM 7 | DD 18

Well Contractor/Technician Information

Name of Well Contractor: Capital Water Supply Ltd
Well Contractor's Licence No.: 1558
Business Address (street name, number, city etc.): Box 490 Stittsville Ontario K2S 1A6
Name of Well Technician (last name, first name): Miller Stephen
Well Technician's Licence No.: T0097
Signature of Technician/Contractor: X
Date Submitted: YYYY 2006 | MM 7 | DD 18

Ministry Use Only

Data Source
Contractor: 1558
Date Received: AUG 25 2006
Date of Inspection
Remarks
Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐ *Cette formule est disponible en français*

Ontario Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)* N/A

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name	E-mail Address	☐ Well Constructed by Well Owner
Minto Developments	c/o Paterson Group		

Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
28 Concourse Gate #1	Nepean	Ont	K2E 7T7	

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR)	Township	Lot	Concession
#886 March Road	March	11	4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Carp	Ontario	

UTM Coordinates NAD 83	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify
	18	426646	5023182	Magellan	200	

Overburden and Bedrock Materials *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
	6" Drilled well		Abandonment	0	24.08

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
24.08	0.15	Hole Plug	
0.15	0	Soil	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Rotary (Air) ☐ Digging
☐ Air percussion ☐ Boring
☐ Other, *specify* _____

Water Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

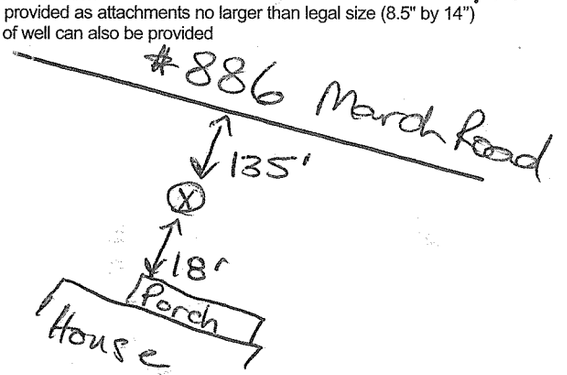
Status of Well

☐ Water Supply ☐ Dewatering Well ☐ Observation and/or Monitoring Hole
☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Alteration (Construction)
☐ Test Hole ☒ Abandoned, Poor Water Quality ☐ Other, *specify* _____
☐ Recharge Well ☐ Abandoned, other, *specify* _____

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points.
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided

N/A



Date Well Completed *(yyyy/mm/dd)*	Was the well owner's information package delivered?	Date the Well Record and Package Delivered to Well Owner *(yyyy/mm/dd)*
2007-08-02	☐ Yes ☒ No	2007-08-27

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 No./Name, number, RR)	Municipality
RR#1	RICHMOND

Province	Postal Code	Business E-mail Address
ONT	K0A 2Z0	

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	Date Submitted *(yyyy/mm/dd)*
7174		2007-09-08

Results of Well Yield Testing

Check box if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand-free state

If pumping discontinued, give reason:

Pumping test method

Pump intake set at *(Metres)*

Pumping rate *(Litres/min)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(Metres)*

Recommended pump type ☐ Shallow ☐ Deep

Recommended pump depth _____ Metres

Recommended pump rate *(Litres/min)*

If flowing give rate *(Litres/min)*

	Draw Down		Recovery	
	Time *(Min)*	Water Level *(Metres)*	Time *(Min)*	Water Level *(Metres)*
Static Level			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	

Water Details

Water found at Depth	Kind of Water
_____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
_____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
_____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used	Screen Used
☐ Galvanized	☐ Galvanized
☐ Steel	☐ Steel
☐ Fibreglass	☐ Fibreglass
☐ Plastic	☐ Plastic
☐ Concrete	☐ Concrete

No Casing and Screen Used

☐ Open Hole

Disinfected? ☒ Yes ☐ No

Casing and Well Details

Diameter of the Hole *(Centimetres)*

Depth of the Hole *(Metres)*

Wall Thickness *(Metres)*

Inside Diameter of the Casing *(Metres)*

Depth of the Casing *(Metres)*

Ministry Use Only

Audit No.	Well Contractor No.
Z 60172	1119
Date Received *(yyyy/mm/dd)* SEP 17 2007	Date of Inspection *(yyyy/mm/dd)*
Remarks	

Ontario Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)*

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name	E-mail Address	☐ Well Constructed by Well Owner
McKeown Construction			

Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
P.O. Box 296	Greely	Ontario	K4P 1N5	613 821 4808

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR)	Township	Lot	Concession
846 March Road	Kanata	10	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	Kanata	Ontario	

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation:
NAD 83		426795	5023082		GArmin	☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Overburden and Bedrock Materials *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (*Metres*) From	To

Annular Space/Abandonment Sealing Record

Depth Set at (*Metres*) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed *(Cubic Metres)*
16.76	0	Grouted - Bentonite, 3/4 inch Hole Plug	15 bags

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ *Rotary (Air)* ☐ *Digging*
☐ Air percussion ☐ Boring
☐ Other, *specify* _____

Water Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ *Irrigation* ☐ *Cooling & Air Conditioning*
☐ Industrial
☐ Other, *specify* _____

Status of Well

☐ Water Supply ☐ Dewatering Well ☐ Observation and/or Monitoring Hole
☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Alteration (Construction)
☐ Test Hole ☐ Abandoned, Poor Water Quality ☐ Other, *specify* _____
☐ Recharge Well ☒ Abandoned, other, *specify* _____

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided

Date Well Completed *(yyyy/mm/dd)*	Was the well owner's information package delivered?	Date the Well Record and Package Delivered to Well Owner *(yyyy/mm/dd)*
2008/3/3	☐ Yes ☒ No	

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558

Business Address (Street No./Name, number, RR)	Municipality
Box 490	Stittsville

Province	Postal Code	Business E-mail Address
Ontario	K2S 1A6	office capitalwater.ca

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
6138361766	Miller, Stephen

Well Technician's Licence No.	Signature of Technician	Date Submitted *(yyyy/mm/dd)*
0097		2008/3/3

Results of Well Yield Testing

Check box if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand-free state

If pumping discontinued, give reason:

Pumping test method

Pump intake set at *(Metres)*

Pumping rate *(Litres/min)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(Metres)*

Recommended pump type ☐ Shallow ☐ Deep

Recommended pump depth _____ Metres

Recommended pump rate *(Litres/min)*

If flowing give rate *(Litres/min)*

Draw Down Time (*Min*)	Draw Down Water Level (*Metres*)	Recovery Time (*Min*)	Recovery Water Level (*Metres*)
Static Level		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	

Water Details

Water found at Depth	Kind of Water
___ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth ___ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth ___ Metres ☐ Gas	*Kind of Water* ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used	Screen Used
☐ Galvanized	☐ Galvanized
☐ *Steel*	☐ *Steel*
☐ Fibreglass	☐ Fibreglass
☐ Plastic	☐ Plastic
☐ Concrete	☐ Concrete

No Casing and Screen Used

☐ Open Hole

Disinfected? ☒ Yes ☐ No

Casing and Well Details

Diameter of the Hole *(Centimetres)*

Depth of the Hole *(Metres)*

Wall Thickness *(Metres)*

Inside Diameter of the Casing (Metres)

Depth of the Casing *(Metres)*

Ministry Use Only

Audit No.	Well Contractor No.
Z 77317	
Date Received *(yyyy/mm/dd)* JUN 02 2008	Date of Inspection *(yyyy/mm/dd)*
Remarks	

0506E (11/2006) **Ministry's Copy**

Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)*

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: [X] Metric [ ] Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	
McKeown Contracting			[ ] Well Constructed by Well Owner

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2878 Stagecoach Road	Greely	Ontario	K 0 A 2 W 0	613 821 4808

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
856 March Road	Kanata	11	4

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	1 8	4 26 73 0	5 0 2 3 1 25		

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

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
15.54	0	Grouted Bentonite 3/8" Hole Plug (12 bags)	

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

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
[X] Abandoned, other, *specify*
[ ] Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Gas	Other, specify
	[ ] Fresh [ ] Untested	[ ]	
	[ ] Fresh [ ] Untested	[ ]	
	[ ] Fresh [ ] Untested	[ ]	

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)*

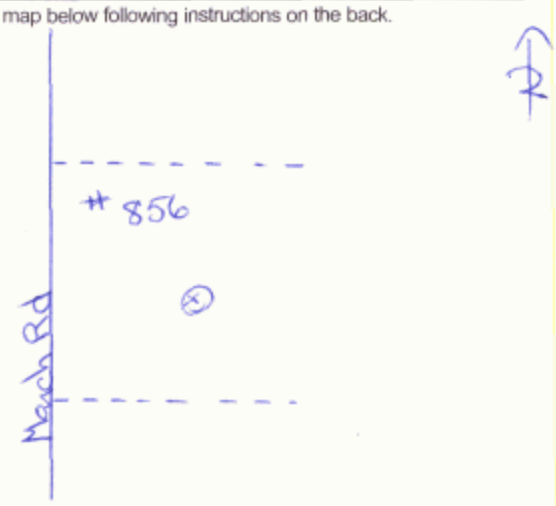
Well production *(l/min / GPM)*

Disinfected? [ ] Yes [ ] No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery 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.
Capital Water Supply Ltd.	1558

Business Address (Street Number/Name)	Municipality
Box 490	Stittsville

Province	Postal Code	Business E-mail Address
Ontario	K 2 S 1 A 6	office@capitalwater.ca

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
6 1 3 8 3 6 1 7 6 6	Miller, Stephen

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0 0 9 7		2008 09 08

Well owner's information package delivered: [ ] Yes [X] No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2008 09 05

Ministry Use Only

Audit No. Z 84393

OCT 14 2008 Received

0506E (12/2007)

Ministry's Copy

Ontario Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	
McKeown Contracting			[ ] Well Constructed by Well Owner

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2878 Stagecoach Road	Greely	Ontario	K 0 A 2 W 0	613 822 2599

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
860 March Road	Kanata	11	4

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	1 8	426698	5023143		

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

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
9.44	0	Grouted Bentonite 3/8" Hole Plug (5 bags)	

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

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
[X] Abandoned, other, *specify*
[ ] Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	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)*

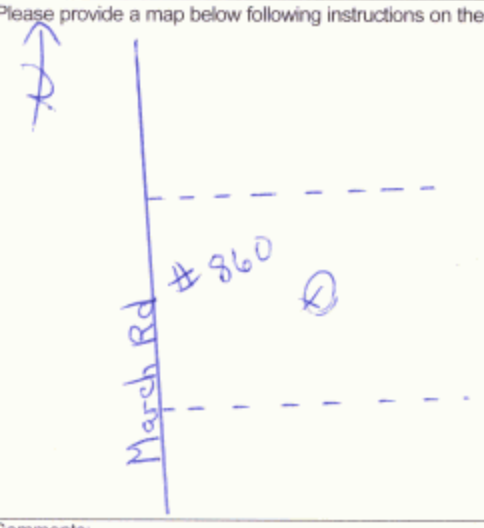
Well production *(l/min / GPM)*

Disinfected? [ ] Yes [ ] No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery 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.
Capital Water Supply Ltd.	1 5 5 8

Business Address (Street Number/Name)	Municipality
Box 490	Stittsville

Province	Postal Code	Business E-mail Address
Ontario	K 2 S 1 A 6	office@capitalwater.ca

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
6 1 3 8 3 6 1 7 6 6	Miller, Stephen

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0 0 9 7		2 0 0 8 0 9 0 8

Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [X] No	Y Y Y Y M M D D	2 0 0 8 0 9 0 5

Ministry Use Only

Audit No. Z 84392

OCT 14 2008

Received

0506E (12/2007)

Ministry's Copy

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: Abandoned

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	City of Ottawa		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
100 Constellation Crescent	Ottawa	Ontario	K2G6T8	6135810240

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
895 March Rd.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Kanata	Ontario	K2K1X7

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	426569	5023247		

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
	Static Water level at 21'				
	Abandoned for Road Construction				
	GPS - Garmin Etrex				

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
29'	24'	~~Hole plug~~ Sand	
24'	3'	Hole plug	
3'	0.8'	Sand	
0.8'	0	Clean Rock	

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

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* Construction ☐ Other, *specify* _____

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested	Other, *specify*
Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested	Other, *specify*
Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested	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)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery 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: See Attached

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Marathon Drilling Co. Ltd.	6894

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
6847 Hiram Dr.	Ottawa	Ontario	K4P1A2	jsbell@marathondrilling.com

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
6138212057	Foster, Eric	3284		2010/06/02

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	Y Y Y Y M M D D	Y Y Y Y M M D D

Ministry Use Only

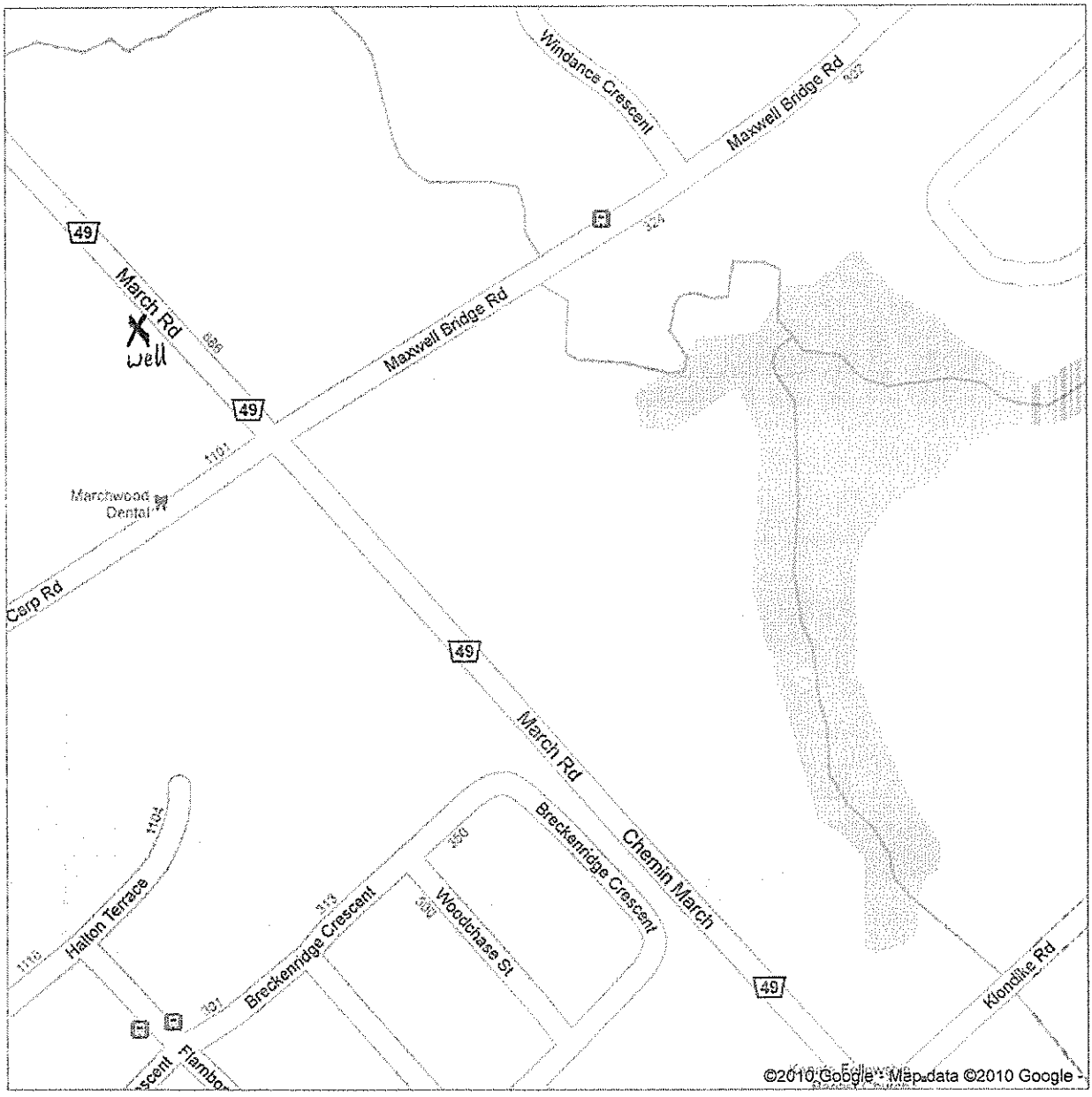
Audit No. Z096933

Received DEC 22 2010

Prir

Google maps
Canada

Notes



C-6894
Z096933

DEC 2 2 2010

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7201372
Well Audit Number: *C21215*
Well Tag Number: *A130127*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	MARCH TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 426635.00 Northing: 5023491.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Mandy Witteman

From: Public Information Services <publicinformationservices@tssa.org>
Sent: August 10, 2021 2:24 PM
To: Mandy Witteman
Subject: RE: Search records request (PE4760-2)

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 Mandy,

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: Mandy Witteman
<MWitteman@Patersongroup.ca>
Sent: August 10, 2021 2:04 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search records request (PE4760-2)

Good Afternoon,

Could you please complete a search of your records for **underground/aboveground storage tanks, historical spills or other incidents/infractions** for the following addresses in **Ottawa, ON:**

March Rd: 910, 866, 846, 927, 905, 895
Halton Terrace: 1054, 1083

Maxwell Bridge Dr: 349

Thank you!

Cheers,

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

solution oriented engineering
over 60 years servicing our clients

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 339
Cell: (403) 921-1157

File Number: D06-03-19-0149

November 8, 2019

Mandy Witteman
Paterson Group
154 Colonnade Road South
Ottawa, Ontario, K2E 7J5

Sent via email [mwitteman@patersongroup.ca]

Dear Ms.Witteman,

Re: Information Request
<<910 March 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.

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Property.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 250m of the Subject Property. The search revealed the following:

- There is 1 activitiy associated with properties located within 250m of the Subject Property:

City of Ottawa
Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Téléc: (613) 560-6006
www.ottawa.ca

A **site map** and **table** have been included to show the location of the Subject Property as well as the location of all the activities noted above.

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 Samantha Gatchene at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,

Samantha Gatchene

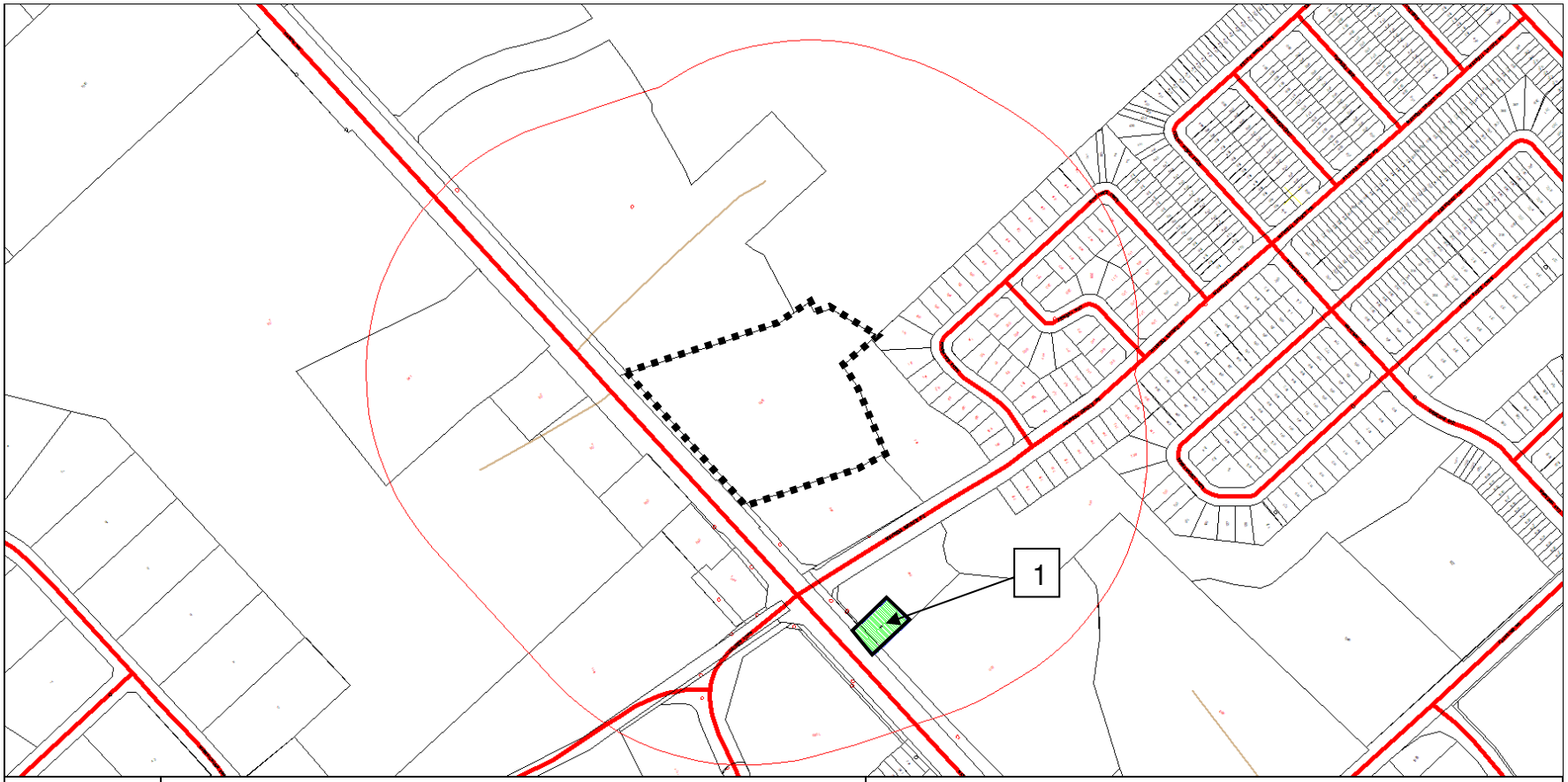
Per:

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

MB/ SG

Enclosures

cc: File no. D06-03-19-0149



Scale 1: n/a	910 March Road Ottawa, ON File # D06-03-19-0149 Samantha Gatchene Ottawa	Overview = Subject Site = Area Number

HLUI Activity Table – D06-03-19-0149

Area Number	HLUI Activities Associated with Area
Subject Property	No HLUI activities associated with subject property
1	1878

Historical Land Use Inventory

Activity Numbers –

Adjacent Properties

Historical Land Use Inventory

Area #1 Activity Numbers

CITY OF OTTAWA

HLUI ID: __67990E

AREA (Square Metres): 1394.175

Report: RPTC_OT_DEV0122

Run On: 08 Nov 2019 at: 09:38:40

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	045270084	N	N

Activity ID: 1878 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 045270084

Name: BURKE BUSLINE LIMITED

Address: 860 MARCH ROAD, KANATA

Facility Type: Public Passenger Transit Systems Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
485510	0

Company Name	Year of Operation
BURKE BUSLINE LIMITED	c. 2001

DATABASE REPORT

Project Property:	*PE4760 -910 March Rd* *PE4760 -910 March Rd* *Kanata ON K2K 1X7*
Project No:	*32636*
Report Type:	*Standard Report*
Order No:	*21081000045*
Requested by:	*Paterson Group Inc.*
Date Completed:	*August 13, 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: *PE4760 -910 March Rd*
PE4760 -910 March Rd Kanata ON K2K 1X7

Project No: *32636*

Coordinates:

Latitude:	*45.3596394*
Longitude:	*-75.9375839*
UTM Northing:	*5,023,330.56*
UTM Easting:	*426,567.82*
UTM Zone:	*18T*

Elevation: *262 FT*
79.82 M

Order Information:

Order No: *21081000045*
Date Requested: *August 10, 2021*
Requested by: *Paterson Group Inc.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	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	3	3
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	7	7
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
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	2	2
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	17	17
	Total:	0	38	38	

Executive Summary: Site Report Summary - Project Property

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

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 11 con 4 ON ***Well ID:*** 1514785	SSE/9.0	0.00	19
2	WWIS		910 MARCH RD lot 12 con 4 KANATA ON ***Well ID:*** 1536458	S/14.6	0.00	22
3	BORE		ON	SW/25.2	0.08	28
4	EHS		910 March Road Kanata ON K2K 1X7	ENE/62.3	-1.61	30
5	WWIS		905 MARCH RD lot 12 con 3 KANATA ON ***Well ID:*** 7335796	WSW/81.0	0.05	30
6	WWIS		295 MARCH RD KANATA ON ***Well ID:*** 7156775	S/83.6	0.48	31
7	GEN	Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	SSW/92.8	1.08	34
7	GEN	Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	SSW/92.8	1.08	34
8	BORE		ON	E/102.8	-2.00	34
9	WWIS		lot 12 con 3 ON ***Well ID:*** 1503359	W/107.3	-0.16	36
10	ECA	McDonald's Restaurants of Canada Limited	886 March Rd Ottawa ON H9P 2V5	ESE/117.8	-0.42	38
11	EHS		886 March Road Ottawa ON K2K 1X7	ESE/118.9	-0.95	39

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	BORE		ON	SE/156.4	0.05	39
13	WWIS		lot 11 con 4 ON ***Well ID:*** 1510247	SE/156.5	0.05	40
14	WWIS		lot 12 con 3 ON ***Well ID:*** 1516260	W/160.3	0.05	42
15	WWIS		886 MARCH ROAD lot 11 con 4 CARP ON ***Well ID:*** 7049297	SE/167.9	1.10	46
16	WWIS		lot 11 con 3 ON ***Well ID:*** 1503356	SSE/170.1	1.38	48
17	WWIS		ON ***Well ID:*** 7201372	NNE/173.9	-1.86	51
18	WWIS		lot 12 con 4 ON ***Well ID:*** 1503414	NNW/176.9	0.05	52
19	BORE		ON	NNW/177.0	0.05	54
20	PINC		858 March Rd,Kanata ON	SE/180.0	1.10	56
20	PINC		858 MARCH ROAD, KANATA ON K2W 0C9	SE/180.0	1.10	56
21	ECA	Klondike Developments Inc.	870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	E/191.8	-3.92	57
21	ECA	Klondike Developments Inc.	870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	E/191.8	-3.92	57
22	WWIS		927 MARCH RD lot 3 con 11 KANATA ON	W/197.8	-0.03	57

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1536459			
23	WWIS		941 MARCH RD lot 11 con 4 KANATA ON ***Well ID:*** 1536624	WNW/210.4	0.05	64
23	WWIS		941 MARCH RD lot 11 con 4 KANATA ON ***Well ID:*** 1536625	WNW/210.4	0.05	65
24	BORE		ON	WSW/210.9	2.05	72
25	WWIS		lot 11 con 4 ON ***Well ID:*** 1503413	SE/225.0	0.97	73
26	WWIS		860 MARCH RD. lot 11 con 4 KANATA ON ***Well ID:*** 7112943	SE/228.3	0.97	75
27	EHS		927 March Rd Kanata ON K2K 1X7	W/228.5	1.05	77
27	EHS		927 March Rd Kanata ON K2K 1X7	W/228.5	1.05	78
27	EHS		927 March Rd Kanata ON K2K 1X7	W/228.5	1.05	78
27	EHS		927 March Rd Kanata ON K2K 1X7	W/228.5	1.05	78
27	EHS		927 March Rd Kanata ON K2K 1X7	W/228.5	1.05	78
28	SPL	PRIVATE OWNER	RESIDENCE AT 865 MARCH RD. (OWNER MR. WARD, 592-4814) STORAGE TANK/BARREL OTTAWA CITY ON K2K 1X7	SE/229.4	1.75	78
29	WWIS		lot 11 con 3 ON ***Well ID:*** 1516836	SW/239.2	3.05	79
30	BORE		ON	WNW/241.4	1.05	82

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

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.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	SW	25.20	3
	ON	SE	156.38	12
	ON	NNW	176.98	19
	ON	WSW	210.87	24
	ON	WNW	241.44	30

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	E	102.79	8

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2021 has found that there are 3 ECA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
McDonald's Restaurants of Canada Limited	886 March Rd Ottawa ON H9P 2V5	ESE	117.81	10

Klondike Developments Inc.	870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	E	191.76	21
Klondike Developments Inc.	870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	E	191.76	21

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 7 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	927 March Rd Kanata ON K2K 1X7	W	228.47	27
	927 March Rd Kanata ON K2K 1X7	W	228.47	27
	927 March Rd Kanata ON K2K 1X7	W	228.47	27
	927 March Rd Kanata ON K2K 1X7	W	228.47	27
	927 March Rd Kanata ON K2K 1X7	W	228.47	27

Lower Elevation	Address	Direction	Distance (m)	Map Key
	910 March Road Kanata ON K2K 1X7	ENE	62.32	4
	886 March Road Ottawa ON K2K 1X7	ESE	118.89	11

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.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	SSW	92.85	7
Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	SSW	92.85	7

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 2 PINC site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	858 March Rd,Kanata ON	SE	180.00	20
	858 MARCH ROAD, KANATA ON K2W 0C9	SE	180.00	20

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
PRIVATE OWNER	RESIDENCE AT 865 MARCH RD. (OWNER MR. WARD, 592-4814) STORAGE TANK/BARREL OTTAWA CITY ON K2K 1X7	SE	229.38	28

WWIS - Water Well Information System

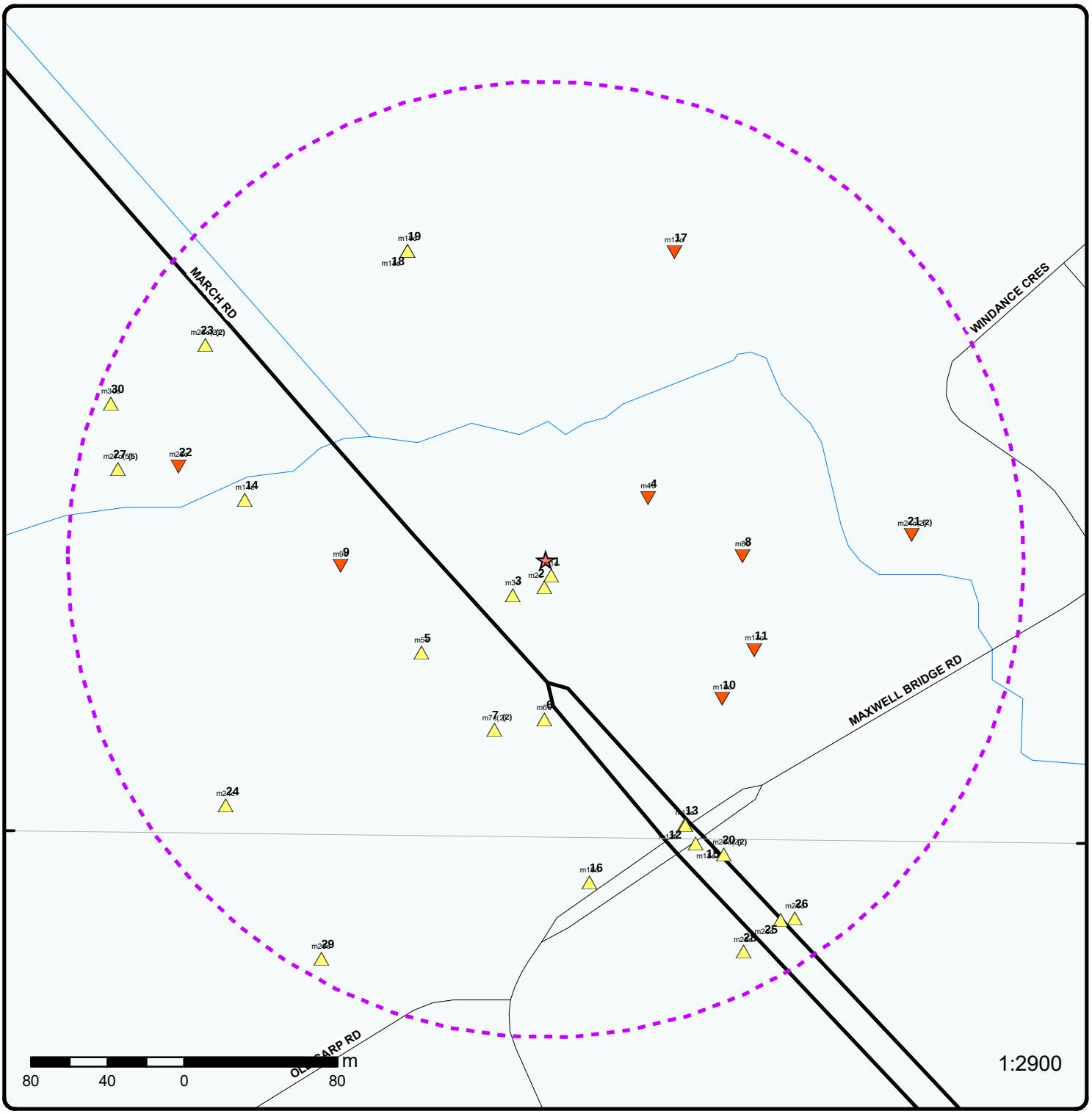
A search of the WWIS database, dated Apr 30, 2021 has found that there are 17 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 11 con 4 ON ***Well ID:*** 1514785	SSE	9.00	1

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	910 MARCH RD lot 12 con 4 KANATA ON ***Well ID:*** 1536458	S	14.59	2
	905 MARCH RD lot 12 con 3 KANATA ON ***Well ID:*** 7335796	WSW	81.00	5
	295 MARCH RD KANATA ON ***Well ID:*** 7156775	S	83.57	6
	lot 11 con 4 ON ***Well ID:*** 1510247	SE	156.51	13
	lot 12 con 3 ON ***Well ID:*** 1516260	W	160.34	14
	886 MARCH ROAD lot 11 con 4 CARP ON ***Well ID:*** 7049297	SE	167.88	15
	lot 11 con 3 ON ***Well ID:*** 1503356	SSE	170.10	16
	lot 12 con 4 ON ***Well ID:*** 1503414	NNW	176.86	18
	941 MARCH RD lot 11 con 4 KANATA ON ***Well ID:*** 1536625	WNW	210.39	23
	941 MARCH RD lot 11 con 4 KANATA ON ***Well ID:*** 1536624	WNW	210.39	23
	lot 11 con 4 ON ***Well ID:*** 1503413	SE	225.01	25
	860 MARCH RD. lot 11 con 4 KANATA ON	SE	228.31	26

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	Well ID: 7112943			
	lot 11 con 3 ON ***Well ID:*** 1516836	SW	239.25	29

Lower Elevation	Address	Direction	Distance (m)	Map Key
	lot 12 con 3 ON ***Well ID:*** 1503359	W	107.28	9
	ON ***Well ID:*** 7201372	NNE	173.93	17
	927 MARCH RD lot 3 con 11 KANATA ON ***Well ID:*** 1536459	W	197.85	22



Map: 0.25 Kilometer Radius

Order Number: 21081000045

Address: PE4760 -910 March Rd, Kanata, ON

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

Source: © 2015 DMTI Spatial Inc.

75°57'W

45°21'N

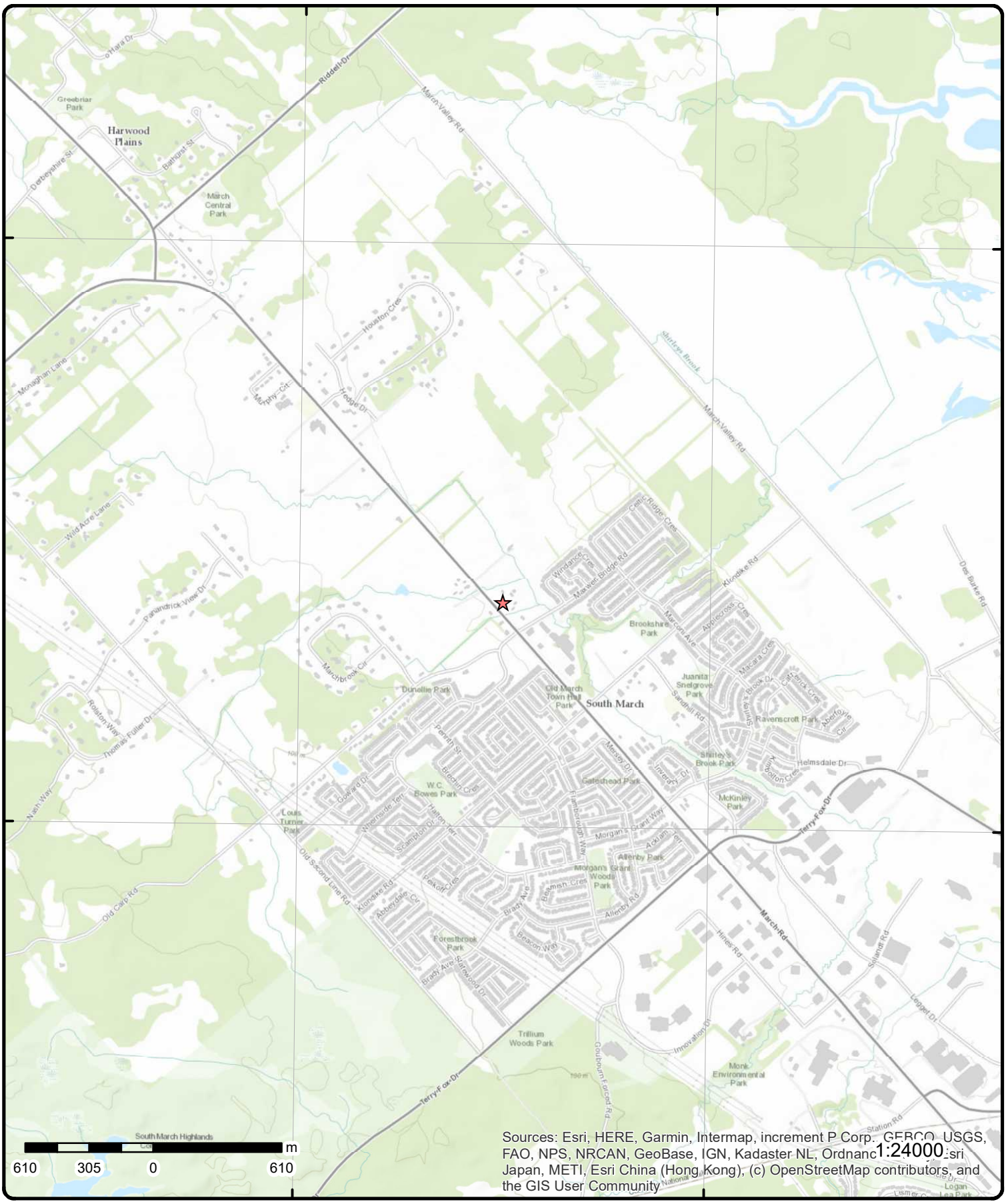
45°21'N

Aerial **Year: 2020**

Order Number: 21081000045

Address: PE4760 -910 March Rd, Kanata, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 21081000045

Address: PE4760 -910 March Rd, 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	SSE/9.0	79.8 / 0.00	lot 11 con 4 ON	WWIS

Well ID:	1514785	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/23/1975
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:**	011
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\1514785.pdf

Additional Detail(s) (Map)

Well Completed Date:	1975/07/01
Year Completed:	1975
Depth (m):	27.432
Latitude:	45.3595626211973
Longitude:	-75.9375471948569
Path:	151\1514785.pdf

Bore Hole Information

Bore Hole ID:	10036755	**Elevation:**	77.908729
DP2BR:	25.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426570.60
Code OB Desc:	Bedrock	**North83:**	5023322.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	01-Jul-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:	931027302
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	25.0
Formation End Depth:	90.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931027301
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	25.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514785
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10585325
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930064972
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	27
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID: 930064973
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 90
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991514785
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 30.0
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:
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934902071
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934100601
Test Type: Draw Down
Test Duration: 15
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934383616
Test Type: Draw Down
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644602
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

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

Water Details

Water ID:	933470746
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933470747
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	84.0
Water Found Depth UOM:	ft

---

2 | ***1 of 1*** | ***S/14.6*** | ***79.8 / 0.00*** | ***910 MARCH RD lot 12 con 4 KANATA ON*** | ***WWIS***

Well ID:	1536458	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	7/11/2006
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	3
Audit No:	Z46997	***Owner:***	
Tag:	A035395	***Street Name:***	910 MARCH RD
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	012
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/153\1536458.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/06/27
Year Completed:	2006
Depth (m):	27.43
Latitude:	45.3595082430105
Longitude:	-75.9375922615526
Path:	153\1536458.pdf

Bore Hole Information

Bore Hole ID:	11550524	***Elevation:***	78.054458
DP2BR:	6.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	426567.00
Code OB Desc:	Bedrock	***North83:***	5023316.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3

Date Completed: 27-Jun-2006 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 : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933057099
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 1.8200000524520874
Formation End Depth: 12.1899995803833
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933057098
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.8200000524520874
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933057100
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 12.1899995803833
Formation End Depth: 27.43000030517578
Formation End Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536458
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11560131
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930879939
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.449999988079071
Depth To: 10.3599996566772
Casing Diameter: 15.8599996566772
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930879940
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 10.3599996566772
Depth To: 27.4300003051758
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11569511
Pump Set At: 21.329999923706055
Static Level: 6.019999980926514
Final Level After Pumping: 6.599999904632568
Recommended Pump Depth: 15.229999542236328
Pumping Rate: 54.599998474121094
Flowing Rate:
Recommended Pump Rate: 45.5
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 30
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11624162
Test Type: Draw Down
Test Duration: 40
Test Level: 6.53000020980835

Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624151
Test Type: Recovery
Test Duration: 5
Test Level: 6.179999828338623
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624159
Test Type: Recovery
Test Duration: 25
Test Level: 6.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624161
Test Type: Recovery
Test Duration: 30
Test Level: 6.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624145
Test Type: Recovery
Test Duration: 2
Test Level: 6.190000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624148
Test Type: Draw Down
Test Duration: 4
Test Level: 6.449999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624150
Test Type: Draw Down
Test Duration: 5
Test Level: 6.46999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624155
Test Type: Recovery
Test Duration: 15
Test Level: 6.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624149
Test Type: Recovery
Test Duration: 4
Test Level: 6.179999828338623
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624154
Test Type: Draw Down
Test Duration: 15
Test Level: 6.510000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624156
Test Type: Draw Down
Test Duration: 20
Test Level: 6.519999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624157
Test Type: Recovery
Test Duration: 20
Test Level: 6.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624158
Test Type: Draw Down
Test Duration: 25
Test Level: 6.519999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624165
Test Type: Recovery
Test Duration: 50
Test Level: 6.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624147
Test Type: Recovery
Test Duration: 3
Test Level: 6.190000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624152
Test Type: Draw Down
Test Duration: 10

Test Level: 6.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624153
Test Type: Recovery
Test Duration: 10
Test Level: 6.150000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624160
Test Type: Draw Down
Test Duration: 30
Test Level: 6.53000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624163
Test Type: Recovery
Test Duration: 40
Test Level: 6.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624142
Test Type: Draw Down
Test Duration: 1
Test Level: 6.360000133514404
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624143
Test Type: Recovery
Test Duration: 1
Test Level: 6.199999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624144
Test Type: Draw Down
Test Duration: 2
Test Level: 6.400000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624146
Test Type: Draw Down
Test Duration: 3
Test Level: 6.440000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID:	11624164
Test Type:	Draw Down
Test Duration:	50
Test Level:	6.539999961853027
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11624166
Test Type:	Draw Down
Test Duration:	60
Test Level:	6.550000190734863
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11624167
Test Type:	Recovery
Test Duration:	60
Test Level:	6.119999885559082
Test Level UOM:	m

Water Details

Water ID:	934077244
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	24.989999771118164
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11681231
Diameter:	15.229999542236328
Depth From:	7.309999942779541
Depth To:	27.43000030517578
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	11681230
Diameter:	22.75
Depth From:	0.0
Depth To:	7.309999942779541
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

3 ***1 of 1*** ***SW/25.2*** ***79.9 / 0.08*** ***ON*** ***BORE***

Borehole ID:	609827	***Inclin FLG:***	No
OGF ID:	215511442	***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:**	45.359472
Total Depth m:	-999	**Longitude DD:**	-75.937801
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	426551
Drill Method:		**Northing:**	5023312
Orig Ground Elev m:	76.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	78.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384186	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218384188	**Mat Consistency:**	
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Black	**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. STONE. 64 VELOCITY = 14600. FEET.BLACK. LIMESTONE. BLUE. S **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218384187	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	2.4	**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: 023350 NTS_Sheet: 31G05D		
Confiden 1:	Reliable information but incomplete.		

Source List

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

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		

4 | **1 of 1** | **ENE/62.3** | **78.2 / -1.61** | **910 March Road Kanata ON K2K 1X7** | **EHS**

Order No:	20190523231	**Nearest Intersection:**	
Status:	C	**Municipality:**	Ottawa
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	30-MAY-19	**Search Radius (km):**	.25
Date Received:	23-MAY-19	**X:**	-75.936906
Previous Site Name:	unknown	**Y:**	45.359933
Lot/Building Size:	6.7 Acre		
Additional Info Ordered:	City Directory		

5 | **1 of 1** | **WSW/81.0** | **79.9 / 0.05** | **905 MARCH RD lot 12 con 3 KANATA ON** | **WWIS**

Well ID:	7335796	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Commerical	**Date Received:**	6/18/2019
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	6574
Casing Material:		**Form Version:**	7
Audit No:	Z304353	**Owner:**	
Tag:	A192645	**Street Name:**	905 MARCH RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	012
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):

Additional Detail(s) (Map)

Well Completed Date:	2019/06/13
Year Completed:	2019
Depth (m):	1.9812
Latitude:	45.3591955276382
Longitude:	-75.9384042444499
Path:	

Bore Hole Information

Bore Hole ID:	1007478133	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	426503.00
Code OB Desc:		**North83:**	5023282.00
Open Hole:		**Org CS:**	UTM83

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

Cluster Kind:		**UTMRC:**	4
Date Completed:	13-Jun-2019 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:	1007976149
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	27
Mat2 Desc:	OTHER
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	0.0
Formation End Depth:	6.5
Formation End Depth UOM:	ft

Pipe Information

Pipe ID:	1007975123
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID:	1007980312
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

6	***1 of 1***	***S/83.6***	***80.3 / 0.48***	***295 MARCH RD KANATA ON***	***WWIS***

Well ID:	7156775	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Not Used	**Date Received:**	12/22/2010
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	6894

Casing Material:		**Form Version:**	7
Audit No:	Z096933	**Owner:**	
Tag:		**Street Name:**	295 MARCH RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH 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/715\7156775.pdf

Additional Detail(s) (Map)

Well Completed Date:	
Year Completed:	
Depth (m):	
Latitude:	45.3588872325645
Longitude:	-75.9375820043333
Path:	715\7156775.pdf

Bore Hole Information

Bore Hole ID:	1003443207	**Elevation:**	77.539993
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	426567.00
Code OB Desc:		**North83:**	5023247.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:		**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1003738549
Layer:	3
Plug From:	3
Plug To:	24
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1003738550
Layer:	4
Plug From:	24
Plug To:	29
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1003738547
Layer:	1
Plug From:	0
Plug To:	0.800000011920929
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1003738548
Layer:	2
Plug From:	3
Plug To:	0.800000011920929
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1003738545
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1003738538
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003738542
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:	1003738543
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1003738541
Layer:	

Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1003738540
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

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7 ***1 of 2*** ***SSW/92.8*** ***80.9 / 1.08*** ***Kanata Plastic & Cosmetic Surgery*** ***GEN***
895 March Rd.
Kanata ON K2K 1X7

Generator No: ON9179314
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 621499
SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Colleen Russell
Phone No Admin: 613-591-1099 Ext.

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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7 ***2 of 2*** ***SSW/92.8*** ***80.9 / 1.08*** ***Kanata Plastic & Cosmetic Surgery*** ***GEN***
895 March Rd.
Kanata ON K2K 1X7

Generator No: ON9179314
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 621499
SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Colleen Russell
Phone No Admin: 613-591-1099 Ext.

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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8 ***1 of 1*** ***E/102.8*** ***77.8 / -2.00*** ***ON*** ***BORE***

Borehole ID: 609828
OGF ID: 215511443
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: -999

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.359664
Longitude DD: -75.936272

Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	426671
Drill Method:		**Northing:**	5023332
Orig Ground Elev m:	76.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	75.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384189	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND.		

Geology Stratum ID:	218384190	**Mat Consistency:**	
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	
Material Color:	Blue	**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. BLUE.		

Geology Stratum ID:	218384191	**Mat Consistency:**	
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Black	**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. 64 VELOCITY = 14600. FEET.BLACK. LIMESTONE. BLUE. SANDSTO **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: 023360 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

9 | **1 of 1** | **W/107.3** | **79.7 / -0.16** | **lot 12 con 3 ON** | **WWIS**

Well ID: 1503359
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/17/1964
Selected Flag: True
Abandonment Rec:
Contractor: 3504
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
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/150\1503359.pdf

Additional Detail(s) (Map)

Well Completed Date: 1963/05/23
Year Completed: 1963
Depth (m): 18.288
Latitude: 45.3595960855311
Longitude: -75.9389522307019
Path: 150\1503359.pdf

Bore Hole Information

Bore Hole ID: 10025402
DP2BR: 12.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 23-May-1963 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 79.530921
Elevrc:
Zone: 18
East83: 426460.60
North83: 5023327.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 930996657
Layer: 1

Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996658
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 38.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996659
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 38.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503359
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573972
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930043555
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:	930043556
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	60
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503359
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	40.0
Recommended Pump Depth:	50.0
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:	933456253
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

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10 | ***1 of 1*** | ***ESE/117.8*** | ***79.4 / -0.42*** | ***McDonald's Restaurants of Canada Limited***
886 March Rd
Ottawa ON H9P 2V5 | ***ECA***

Approval No:	2706-9MJQ5V	***MOE District:***	
Approval Date:	2014-08-07	***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		

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

Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: McDonald's Restaurants of Canada Limited
Address: 886 March Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3363-9FZJC9-14.pdf

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11 | **1 of 1** | **ESE/118.9** | **78.9 / -0.95** | **886 March Road Ottawa ON K2K 1X7** | **EHS**

Order No: 20120611011
Status: C
Report Type: Standard Select Report
Report Date: 12-JUN-12
Date Received: 11-JUN-12
Previous Site Name:
Lot/Building Size: 15,800sm
Additional Info Ordered:

Nearest Intersection:
Municipality: Kanata
Client Prov/State: ON
Search Radius (km): .25
X: -75.936185
Y: 45.359224

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12 | **1 of 1** | **SE/156.4** | **79.9 / 0.05** | **ON** | **BORE**

Borehole ID: 609823
OGF ID: 215511438
Status:
Type: Borehole
Use:
Completion Date: JUN-1969
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 18.6
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 78
Elev Reliabil Note:
DEM Ground Elev m: 77.7
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: 45.358401
Longitude DD: -75.936635
UTM Zone: 18
Easting: 426641
Northing: 5023192
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384176
Top Depth: 0
Bottom Depth: 7.6
Material Color:
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY.

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

Geology Stratum ID: 218384177
Top Depth: 7.6
Bottom Depth: 18.6
Material Color: Black
Material 1: Sandstone
Material 2:

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

Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: SANDSTONE. 00060000870005800075 SEISMIC VELOCITY = 14600. FEET.BLACK. LIMESTONE.

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: 02331 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

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13 | ***1 of 1*** | ***SE/156.5*** | ***79.9 / 0.05*** | ***lot 11 con 4 ON*** | ***WWIS***

Well ID:	1510247	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	10/30/1969
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:**	011
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\1510247.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/06/11
Year Completed: 1969
Depth (m): 18.5928
Latitude: 45.358399933516
Longitude: -75.9366342487712
Path: 151\1510247.pdf

Bore Hole Information

Bore Hole ID:	10032275	**Elevation:**	77.674873
DP2BR:	25.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426640.60
Code OB Desc:	Bedrock	**North83:**	5023192.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	11-Jun-1969 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:	931014324
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:	25.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014325
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	25.0
Formation End Depth:	61.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961510247
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10580845
Casing No:	1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930057146
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	61
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930057145
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	28
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991510247
Pump Set At:	
Static Level:	5.0
Final Level After Pumping:	9.0
Recommended Pump Depth:	30.0
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:	933465213
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	60.0
Water Found Depth UOM:	ft

14	1 of 1	W/160.3	79.9 / 0.05	lot 12 con 3 ON	WWIS

Well ID:	1516260	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/17/1977
Sec. Water Use:	0	**Selected Flag:**	True

Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	012
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\1516260.pdf

Additional Detail(s) (Map)

Well Completed Date:	1977/10/04
Year Completed:	1977
Depth (m):	35.052
Latitude:	45.359905841084
Longitude:	-75.9395957594026
Path:	151\1516260.pdf

Bore Hole Information

Bore Hole ID:	10038190	***Elevation:***	77.210594
DP2BR:	11.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	426410.60
Code OB Desc:	Bedrock	***North83:***	5023362.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	04-Oct-1977 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:	931031604
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	9.0
Formation End Depth:	11.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931031605
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	18
Mat2 Desc:	SANDSTONE
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	11.0
Formation End Depth:	35.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931031603
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	9.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931031606
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	35.0
Formation End Depth:	115.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961516260
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10586760

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930067186
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 115
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930067185
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: 991516260
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 70.0
Recommended Pump Depth: 75.0
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: 934101771
Test Type: Draw Down
Test Duration: 15
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640906
Test Type: Draw Down
Test Duration: 45
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934898808
Test Type:	Draw Down
Test Duration:	60
Test Level:	70.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934379814
Test Type:	Draw Down
Test Duration:	30
Test Level:	70.0
Test Level UOM:	ft

Water Details

Water ID:	933472534
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	113.0
Water Found Depth UOM:	ft

15 ***1 of 1*** ***SE/167.9*** ***80.9 / 1.10*** ***886 MARCH ROAD lot 11 con 4 CARP ON*** ***WWIS***

Well ID:	7049297	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	9/17/2007
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	4
Audit No:	Z60172	***Owner:***	
Tag:		***Street Name:***	886 MARCH ROAD
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	011
Well Depth:		***Concession:***	04
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7049297.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/08/02
Year Completed:	2007
Depth (m):	
Latitude:	45.3583104972882
Longitude:	-75.9365638273091
Path:	704\7049297.pdf

Bore Hole Information

Bore Hole ID:	23049297	***Elevation:***	77.812026
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	426646.00
Code OB Desc:		***North83:***	5023182.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	02-Aug-2007 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1000025640
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1000025642
Layer:	2
Plug From:	0.150000005960464
Plug To:	0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1000025641
Layer:	1
Plug From:	24.0799999237061
Plug To:	0.150000005960464
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1000025645
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID: 1000025638
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1000025644
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1000025639
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1000025643
Layer: 1
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

16 | ***1 of 1*** | ***SSE/170.1*** | ***81.2 / 1.38*** | ***lot 11 con 3 ON*** | ***WWIS***

Well ID: 1503356
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:

Data Entry Status:
Data Src: 1
Date Received: 6/25/1965
Selected Flag: True
Abandonment Rec:
Contractor: 4216
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011

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\1503356.pdf

Additional Detail(s) (Map)

Well Completed Date:	1965/05/28
Year Completed:	1965
Depth (m):	13.1064
Latitude:	45.3581246924318
Longitude:	-75.9372680922699
Path:	150\1503356.pdf

Bore Hole Information

Bore Hole ID:	10025399	**Elevation:**	78.960632
DP2BR:	11.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426590.60
Code OB Desc:	Bedrock	**North83:**	5023162.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	28-May-1965 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:	930996652
Layer:	2
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	11.0
Formation End Depth:	43.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996651
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:	11.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961503356
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10573969
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930043550
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	43
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043549
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	15
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503356
Pump Set At:	
Static Level:	7.0
Final Level After Pumping:	17.0
Recommended Pump Depth:	25.0
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:	933456250
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	43.0
Water Found Depth UOM:	ft

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17 ***1 of 1*** ***NNE/173.9*** ***78.0 / -1.86*** ***ON*** ***WWIS***

Well ID:	7201372	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	5/9/2013
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	1844
Casing Material:		**Form Version:**	8
Audit No:	C21215	**Owner:**	
Tag:	A130127	**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH 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):

Additional Detail(s) (Map)

Well Completed Date:	2012/09/07
Year Completed:	2012
Depth (m):	
Latitude:	45.3610903928767
Longitude:	-75.936750146618
Path:	

Bore Hole Information

Bore Hole ID:	1004290600	**Elevation:**	74.394798
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	426635.00
Code OB Desc:		**North83:**	5023491.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	07-Sep-2012 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:

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18 | **1 of 1** | **NNW/176.9** | **79.9 / 0.05** | **lot 12 con 4 ON** | **WWIS**

Well ID:	1503414	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/6/1964
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:**	012
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\1503414.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/02/06
Year Completed:	1964
Depth (m):	15.5448
Latitude:	45.3610847823681
Longitude:	-75.9385299638792
Path:	150\1503414.pdf

Bore Hole Information

Bore Hole ID:	10025457	**Elevation:**	77.912040
DP2BR:	9.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426495.60
Code OB Desc:	Bedrock	**North83:**	5023492.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	06-Feb-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: 930996776

Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 9.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996778
Layer: 3
Color:
General Color:
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996777
Layer: 2
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 9.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503414
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10574027
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930043663
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	18
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930043664
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	51
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991503414
Pump Set At:	
Static Level:	11.0
Final Level After Pumping:	11.0
Recommended Pump Depth:	40.0
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:	933456319
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	50.0
Water Found Depth UOM:	ft

19 ***1 of 1*** ***NNW/177.0*** ***79.9 / 0.05*** ***ON*** ***BORE***

Borehole ID:	609833	***Inclin FLG:***	No
OGF ID:	215511448	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	FEB-1964	***Municipality:***	
Static Water Level:	5.8	***Lot:***	

Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.361086
Total Depth m:	15.5	**Longitude DD:**	-75.93853
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	426496
Drill Method:		**Northing:**	5023492
Orig Ground Elev m:	79.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	77.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384199	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,BOULDERS.		

Geology Stratum ID:	218384200	**Mat Consistency:**	
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	12.2	**Material Texture:**	
Material Color:		**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.		

Geology Stratum ID:	218384201	**Mat Consistency:**	
Top Depth:	12.2	**Material Moisture:**	
Bottom Depth:	15.5	**Material Texture:**	
Material Color:	Black	**Non Geo Mat Type:**	
Material 1:	Granite	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRANITE. 00050STONE. WATER STABLE AT 241.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE. BLA **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: 02341 NTS_Sheet:		
Confiden 1:			

Source List

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

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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20 **1 of 2** **SE/180.0** **80.9 / 1.10** **858 March Rd,Kanata ON** **PINC**

Incident ID:	2682198	**Pipe Material:**	
Incident No:	525800	**Fuel Category:**	Natural Gas
Incident Reported Dt:		**Health Impact:**	No
Type:	FS-Pipeline Incident	**Environment Impact:**	No
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	Yes
Tank Status:	RC Established	**Service Interrupt:**	Yes
Task No:	3215894	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	No
Fuel Type:	Natural Gas	**Pipeline System:**	
Fuel Occurrence Tp:	Pipeline Strike	**PSIG:**	
Date of Occurrence:	1/6/2011 0:00	**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2011/02/09	**Regulator Location:**	
Depth:		**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:	Construction Site (including excavation)		
Pipeline Type:			
Regulator Type:			
Summary:	858 March Rd,Kanata - 1 1/4" PE Pipeline Hit		
Reported By:	Stiles, Jeff - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:	no locates with operator		
Damage Reason:	Excavation practices not sufficient		
Notes:			

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20 **2 of 2** **SE/180.0** **80.9 / 1.10** **858 MARCH ROAD, KANATA ON K2W 0C9** **PINC**

Incident ID:	2685528	**Pipe Material:**	
Incident No:	529122	**Fuel Category:**	Heating Fuel
Incident Reported Dt:		**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	
Tank Status:		**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:	N/A	**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:			
Incident Address:			
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	858 MARCH ROAD, KANATA - 1 1/4" PIPELINE HIT		
Reported By:	JEFF STILES - ENBRIDGE OTTAWA		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	1 of 2	E/191.8	75.9 / -3.92	Klondike Developments Inc. 870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	ECA

Approval No: 0215-79MK7R
Approval Date: 2007-12-06
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Klondike Developments Inc.
Address: 870 March Rd and 1001 Klondike Road
Full Address:
Full PDF Link:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	2 of 2	E/191.8	75.9 / -3.92	Klondike Developments Inc. 870 March Rd and 1001 Klondike Road Ottawa ON K2C 0P9	ECA

Approval No: 0048-79MQC5
Approval Date: 2007-12-06
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Klondike Developments Inc.
Address: 870 March Rd and 1001 Klondike Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3771-79KQRW-14.pdf
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 1	W/197.8	79.8 / -0.03	927 MARCH RD lot 3 con 11 KANATA ON	WWIS

Well ID: 1536459
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z46998
Tag: A035457
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: 7/11/2006
Selected Flag: True
Abandonment Rec:
Contractor: 1558
Form Version: 3
Owner:
Street Name: 927 MARCH RD
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 003
Concession: 11
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536459.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/06/27
Year Completed:	2006
Depth (m):	22.24
Latitude:	45.3600552087237
Longitude:	-75.9400400092238
Path:	153\1536459.pdf

Bore Hole Information

Bore Hole ID:	11550525	***Elevation:***	78.208000
DP2BR:	6.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	426376.00
Code OB Desc:	Bedrock	***North83:***	5023379.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	27-Jun-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:	933057102
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.9800000190734863
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933057103
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.9800000190734863
Formation End Depth:	12.1899995803833
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	933057104
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12.1899995803833
Formation End Depth:	22.239999771118164
Formation End Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	961536459
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	11560132
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930879943
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	9.75
Depth To:	22.2399997711182
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Casing

Casing ID:	930879942
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-0.449999988079071
Depth To:	9.75
Casing Diameter:	15.8599996566772
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Results of Well Yield Testing

Pump Test ID:	11569512
Pump Set At:	19.809999465942383
Static Level:	3.5999999046325684
Final Level After Pumping:	5.050000190734863
Recommended Pump Depth:	15.229999542236328

Pumping Rate: 54.599998474121094
Flowing Rate:
Recommended Pump Rate: 45.5
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 30
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11624174
Test Type: Draw Down
Test Duration: 4
Test Level: 3.8499999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624516
Test Type: Draw Down
Test Duration: 30
Test Level: 4.360000133514404
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624518
Test Type: Draw Down
Test Duration: 40
Test Level: 4.46999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624523
Test Type: Recovery
Test Duration: 60
Test Level: 4.079999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624169
Test Type: Recovery
Test Duration: 1
Test Level: 4.900000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624171
Test Type: Recovery
Test Duration: 2
Test Level: 4.849999904632568
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624177
Test Type: Recovery
Test Duration: 5
Test Level: 4.75
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624517
Test Type: Recovery
Test Duration: 30
Test Level: 4.309999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624519
Test Type: Recovery
Test Duration: 40
Test Level: 4.21999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624522
Test Type: Draw Down
Test Duration: 60
Test Level: 4.659999847412109
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624173
Test Type: Recovery
Test Duration: 3
Test Level: 4.820000171661377
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624178
Test Type: Draw Down
Test Duration: 10
Test Level: 4.03000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624515
Test Type: Recovery
Test Duration: 25
Test Level: 4.369999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624521
Test Type: Recovery

Test Duration: 50
Test Level: 4.150000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624170
Test Type: Draw Down
Test Duration: 2
Test Level: 3.809999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624172
Test Type: Draw Down
Test Duration: 3
Test Level: 3.809999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624168
Test Type: Draw Down
Test Duration: 1
Test Level: 3.7300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624181
Test Type: Recovery
Test Duration: 15
Test Level: 4.519999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624520
Test Type: Draw Down
Test Duration: 50
Test Level: 4.570000171661377
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624175
Test Type: Recovery
Test Duration: 4
Test Level: 4.78000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624176
Test Type: Draw Down
Test Duration: 5
Test Level: 3.869999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624179
Test Type: Recovery
Test Duration: 10
Test Level: 4.610000133514404
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624180
Test Type: Draw Down
Test Duration: 15
Test Level: 4.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624512
Test Type: Draw Down
Test Duration: 20
Test Level: 4.21999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624513
Test Type: Recovery
Test Duration: 20
Test Level: 4.449999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11624514
Test Type: Draw Down
Test Duration: 25
Test Level: 4.300000190734863
Test Level UOM: m

Water Details

Water ID: 934077245
Layer: 3
Kind Code:
Kind:
Water Found Depth: 21.940000534057617
Water Found Depth UOM: m

Water Details

Water ID: 934077247
Layer: 1
Kind Code:
Kind:
Water Found Depth: 14.020000457763672
Water Found Depth UOM: m

Water Details

Water ID: 934077246
Layer: 2
Kind Code:
Kind:
Water Found Depth: 19.809999465942383
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11681233
Diameter: 15.550000190734863
Depth From: 9.75
Depth To: 22.239999771118164
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681232
Diameter: 22.75
Depth From: 0.0
Depth To: 9.75
Hole Depth UOM: m
Hole Diameter UOM: cm

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23 | **1 of 2** | **WNW/210.4** | **79.9 / 0.05** | **941 MARCH RD lot 11 con 4 KANATA ON** | **WWIS**

Well ID: 1536624
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z47023
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: 8/25/2006
Selected Flag: True
Abandonment Rec: Yes
Contractor: 1558
Form Version: 3
Owner:
Street Name: 941 MARCH RD
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
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/153\1536624.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/07/20
Year Completed: 2006
Depth (m):
Latitude: 45.3606326888647
Longitude: -75.9398708171799
Path: 153\1536624.pdf

Bore Hole Information

Bore Hole ID:	11550690	**Elevation:**	79.611900
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	_	**East83:**	426390.00
Code OB Desc:	No formation data	**North83:**	5023443.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	20-Jul-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:	961536624
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	11560297
Casing No:	1
Comment:	
Alt Name:	

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23 **2 of 2** **WNW/210.4** **79.9 / 0.05** ***941 MARCH RD lot 11 con 4 KANATA ON*** **WWIS**

Well ID:	1536625	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	8/25/2006
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	3
Audit No:	Z47021	**Owner:**	
Tag:	A041907	**Street Name:**	941 MARCH RD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	011
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/153\1536625.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/07/18
Year Completed:	2006

Depth (m):	22.24
Latitude:	45.3606326888647
Longitude:	-75.9398708171799
Path:	153\1536625.pdf

Bore Hole Information

Bore Hole ID:	11550691	**Elevation:**	79.611900
DP2BR:	9.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426390.00
Code OB Desc:	Bedrock	**North83:**	5023443.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	18-Jul-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:	933067349
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.740000009536743
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933067350
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.740000009536743
Formation End Depth:	11.579999923706055
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933067351
Layer:	3

Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	11.579999923706055
Formation End Depth:	22.239999771118164
Formation End Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	961536625
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	11560298
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930885343
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	6.40000009536743
Depth To:	22.2399997711182
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Casing

Casing ID:	930885342
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:	11569622
Pump Set At:	18.280000686645508
Static Level:	
Final Level After Pumping:	7.010000228881836
Recommended Pump Depth:	15.229999542236328
Pumping Rate:	50.04999923706055
Flowing Rate:	
Recommended Pump Rate:	45.5
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: 11669561
Test Type: Draw Down
Test Duration: 1
Test Level: 5.829999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669564
Test Type: Recovery
Test Duration: 2
Test Level: 5.409999847412109
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669565
Test Type: Draw Down
Test Duration: 3
Test Level: 6.210000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669578
Test Type: Recovery
Test Duration: 25
Test Level: 5.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669579
Test Type: Draw Down
Test Duration: 30
Test Level: 6.789999961853027
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669583
Test Type: Draw Down
Test Duration: 50
Test Level: 6.940000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669585
Test Type: Draw Down

Test Duration: 60
Test Level: 7.010000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669562
Test Type: Recovery
Test Duration: 1
Test Level: 5.460000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669575
Test Type: Draw Down
Test Duration: 20
Test Level: 6.690000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669569
Test Type: Draw Down
Test Duration: 5
Test Level: 6.349999904632568
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669573
Test Type: Draw Down
Test Duration: 15
Test Level: 6.619999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669567
Test Type: Draw Down
Test Duration: 4
Test Level: 6.300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669570
Test Type: Recovery
Test Duration: 5
Test Level: 5.340000152587891
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669571
Test Type: Draw Down
Test Duration: 10
Test Level: 6.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669574
Test Type: Recovery
Test Duration: 15
Test Level: 5.159999847412109
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669580
Test Type: Recovery
Test Duration: 30
Test Level: 5.099999904632568
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669586
Test Type: Recovery
Test Duration: 60
Test Level: 5.019999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669572
Test Type: Recovery
Test Duration: 10
Test Level: 5.230000019073486
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669577
Test Type: Draw Down
Test Duration: 25
Test Level: 6.760000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669563
Test Type: Draw Down
Test Duration: 2
Test Level: 6.079999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669568
Test Type: Recovery
Test Duration: 4
Test Level: 5.360000133514404
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669576

Test Type: Recovery
Test Duration: 20
Test Level: 5.139999866485596
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669582
Test Type: Recovery
Test Duration: 40
Test Level: 5.070000171661377
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669584
Test Type: Recovery
Test Duration: 50
Test Level: 5.039999961853027
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669566
Test Type: Recovery
Test Duration: 3
Test Level: 5.389999866485596
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11669581
Test Type: Draw Down
Test Duration: 40
Test Level: 6.880000114440918
Test Level UOM: m

Water Details

Water ID: 934079370
Layer: 1
Kind Code:
Kind:
Water Found Depth: 20.719999313354492
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11681419
Diameter: 22.75
Depth From: 0.0
Depth To: 6.400000095367432
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681418
Diameter: 15.229999542236328
Depth From: 6.400000095367432

Depth To: 22.239999771118164
Hole Depth UOM: m
Hole Diameter UOM: cm

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24 **1 of 1** **WSW/210.9** **81.9 / 2.05** **ON** **BORE**

Borehole ID: 609824
OGF ID: 215511439
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level: 1.2
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 80.8
Elev Reliabil Note:
DEM Ground Elev m: 80
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: 45.358466
Longitude DD: -75.9397
UTM Zone: 18
Easting: 426401
Northing: 5023202
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384178
Top Depth: 0
Bottom Depth: 3.4
Material Color:
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY.

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

Geology Stratum ID: 218384179
Top Depth: 3.4
Bottom Depth:
Material Color: Black
Material 1: Bedrock
Material 2: Granite
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,GRANITE. WATER STABLE AT 261.0 FEET. VELOCITY = 14600. FEET.BLACK. LIMESTONE.

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

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 023320 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

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

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		

25	***1 of 1***	***SE/225.0***	***80.8 / 0.97***	***lot 11 con 4 ON***	***WWIS***

Well ID:	1503413	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/20/1962
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:***	011
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\1503413.pdf

Additional Detail(s) (Map)

Well Completed Date:	1961/11/12
Year Completed:	1961
Depth (m):	11.5824
Latitude:	45.3579551585677
Longitude:	-75.935988527227
Path:	150\1503413.pdf

Bore Hole Information

Bore Hole ID:	10025456	***Elevation:***	77.416564
DP2BR:	22.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	426690.60
Code OB Desc:	Bedrock	***North83:***	5023142.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	12-Nov-1961 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:	930996773
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:	16.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996774
Layer:	2
Color:	
General Color:	
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	16.0
Formation End Depth:	22.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996775
Layer:	3
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	22.0
Formation End Depth:	38.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961503413
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10574026

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043661
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 24
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043662
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 38
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503413
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 14.0
Recommended Pump Depth: 30.0
Pumping Rate: 6.0
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: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933456318
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

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26 ***1 of 1*** ***SE/228.3*** ***80.8 / 0.97*** ***860 MARCH RD. lot 11 con 4 KANATA ON*** ***WWIS***

Well ID: 7112943
Construction Date:
Primary Water Use:
Data Entry Status:
Data Src:
Date Received: 10/14/2008

Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	7
Audit No:	Z84392	**Owner:**	
Tag:		**Street Name:**	860 MARCH RD.
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	011
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/711\7112943.pdf

Additional Detail(s) (Map)

Well Completed Date:	2008/09/05
Year Completed:	2008
Depth (m):	
Latitude:	45.3579649328805
Longitude:	-75.9358942076924
Path:	711\7112943.pdf

Bore Hole Information

Bore Hole ID:	1001835768	**Elevation:**	77.300338
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	426698.00
Code OB Desc:		**North83:**	5023143.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	05-Sep-2008 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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001937898
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001937902
Method Construction Code:	
Method Construction:	

Other Method Construction:

Pipe Information

Pipe ID: 1001937895
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001937900
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001937901
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1001937899
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001937897
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

27	1 of 5	W/228.5	80.9 / 1.05	927 March Rd Kanata ON K2K 1X7	EHS

Order No: 20200417004
Status: C
Report Type: Standard Report
Report Date: 22-APR-20
Date Received: 17-APR-20
Previous Site Name:
Lot/Building Size:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9404444
Y: 45.3600417

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

27	2 of 5	W/228.5	80.9 / 1.05	927 March Rd Kanata ON K2K 1X7	EHS

Order No:	20200417004	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Standard Report	Client Prov/State:	ON
Report Date:	22-APR-20	Search Radius (km):	.25
Date Received:	17-APR-20	X:	-75.9404444
Previous Site Name:		Y:	45.3600417
Lot/Building Size:			
Additional Info Ordered:			

27	3 of 5	W/228.5	80.9 / 1.05	927 March Rd Kanata ON K2K 1X7	EHS

Order No:	20200417004	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Standard Report	Client Prov/State:	ON
Report Date:	22-APR-20	Search Radius (km):	.25
Date Received:	17-APR-20	X:	-75.9404444
Previous Site Name:		Y:	45.3600417
Lot/Building Size:			
Additional Info Ordered:			

27	4 of 5	W/228.5	80.9 / 1.05	927 March Rd Kanata ON K2K 1X7	EHS

Order No:	20200417004	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Standard Report	Client Prov/State:	ON
Report Date:	22-APR-20	Search Radius (km):	.25
Date Received:	17-APR-20	X:	-75.9404444
Previous Site Name:		Y:	45.3600417
Lot/Building Size:			
Additional Info Ordered:			

27	5 of 5	W/228.5	80.9 / 1.05	927 March Rd Kanata ON K2K 1X7	EHS

Order No:	20200417004	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Standard Report	Client Prov/State:	ON
Report Date:	22-APR-20	Search Radius (km):	.25
Date Received:	17-APR-20	X:	-75.9404444
Previous Site Name:		Y:	45.3600417
Lot/Building Size:			
Additional Info Ordered:			

28	1 of 1	SE/229.4	81.6 / 1.75	PRIVATE OWNER RESIDENCE AT 865 MARCH RD. (OWNER MR. WARD, 592-4814) STORAGE TANK/BARREL OTTAWA CITY ON K2K 1X7	SPL

Ref No:	72862	Discharger Report:	
Site No:		Material Group:	

Incident Dt:	6/30/1992	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	20101
Nature of Impact:	Soil Contamination	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	REPORT FAXED TO MCCR
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	6/30/1992	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	EQUIPMENT FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: FURNACE OIL TO GROUND FROM FILL PIPE AT PRIVATERESIDENCE.

Contaminant Qty:

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29 | **1 of 1** | **SW/239.2** | **82.9 / 3.05** | **lot 11 con 3 ON** | **WWIS**

Well ID:	1516836	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/18/1978
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	011
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\1516836.pdf

Additional Detail(s) (Map)

Well Completed Date:	1978/11/08
Year Completed:	1978
Depth (m):	38.1
Latitude:	45.3577500054845
Longitude:	-75.9390493718151
Path:	151\1516836.pdf

Bore Hole Information

Bore Hole ID:	10038731	**Elevation:**	80.718208

DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426450.60
Code OB Desc:	Bedrock	**North83:**	5023122.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	08-Nov-1978 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:	931033310
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	77
Mat2 Desc:	LOOSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931033311
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	2.0
Formation End Depth:	125.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961516836
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10587301
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930067990
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	125
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930067988
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930067989
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	55
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991516836
Pump Set At:	
Static Level:	25.0
Final Level After Pumping:	50.0
Recommended Pump Depth:	75.0
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:	934900558
Test Type:	Draw Down
Test Duration:	60

Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934102405
Test Type: Draw Down
Test Duration: 15
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381984
Test Type: Draw Down
Test Duration: 30
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934643074
Test Type: Draw Down
Test Duration: 45
Test Level: 50.0
Test Level UOM: ft

Water Details

Water ID: 933473210
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120.0
Water Found Depth UOM: ft

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30 ***1 of 1*** ***WNW/241.4*** ***80.9 / 1.05*** ***ON*** ***BORE***

Borehole ID: 609830
OGF ID: 215511445
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level: 4.3
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 77.7
Elev Reliabil Note:
DEM Ground Elev m: 80.6
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: 45.36035
Longitude DD: -75.940497
UTM Zone: 18
Easting: 426341
Northing: 5023412
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384194
Top Depth: 3.7
Bottom Depth: 11.6
Material Color:
Material 1: Bedrock
Material 2: Limestone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE.

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

Geology Stratum ID: 218384195
Top Depth: 11.6
Bottom Depth:
Material Color: Black
Material 1: Bedrock
Material 2: Sandstone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,SANDSTONE. WATER STABLE AT 241.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE. BLACK. L **Note: Many records provided by the department have a truncated [Stratum Description] field.

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

Geology Stratum ID: 218384193
Top Depth: 0
Bottom Depth: 3.7
Material Color:
Material 1: Clay
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY,GRAVEL.

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

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 023380 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

Unplottable Summary

Total: 24 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 11 Con 3	Kanata ON	
CA	Klondike Developments Inc.		Ottawa ON	
CA	Klondike Developments Inc.		Ottawa ON	
CA	City of Ottawa	From Morgan's Grant Way to Old Carp Rd (Halton Terrace Extension)	Ottawa ON	
CA	Hugh Robert Sparks	Lot 12, Conc. 3, March Tp	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	Morgan's Grant	Part of Lot 11, Concession 3	Ottawa ON	
CA	Klondike Developments Inc.		Ottawa ON	
DTNK	SHELL C10235 ATTN ROB DUPUIS	HWY 49 R R 2	CARP ON	
EBR	West Carleton Sand & Gravel	McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carelton City of Ottawa CITY OF OTTAWA	ON	
EBR	Marcel Brazeau Ltd.	Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA	ON	
ECA	Mattamy (Half Moon Bay) Limited	Part of Lot 11 and 12, Concession 3 (Rideau Front)	Ottawa ON	K2K 2M5
ECA	Kanata North Landowners Group Inc.	March Rd from Maxwell Road to Shirley's Brook Drive, Shirley's Brook Drive from March Road to Sandhill Road	Ottawa ON	K1R 7Y2
ECA	Mattamy (Half Moon Bay) Limited	Part of Lot 11 and 12, Concession 3 (Rideau Front)	Ottawa ON	K2K 2M5
ECA	City of Ottawa	March Road and Halton Terrace	Ottawa ON	K1P 1J1
EHS		Hwy 49	Carp ON	
LIMO	Pierces Corners Landfill The Corporation of the Township of Rideau City of	Ottawa Part of Lot 11, Concession 3 Ottawa	ON	

NCPL	West Carleton Sand & Gravel Inc.	Lot 11-14, Conc 4	Ottawa ON
PRT	ROBS SHELL	HWY 49	CARP ON
PRT	ROB'S SHELL ROB DUPUIS	HWY 49	CARP ON
PTTW	Mattamy (Half Moon Bay) Limited	Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA	ON
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON
SPL	OTTAWA-CARLETON TRANSIT	MARCH ROAD, SOUTH OF CARLING	OTTAWA CITY ON
WWIS		lot 12	ON

Unplottable Report

Site: **Database:** AAGR

Lot 11 Con 3 Kanata ON

Type:	Quarry
Region/County:	Ottawa-Carleton
Township:	Kanata
Concession:	3
Lot:	11
Size (ha):	0.5
Landuse:	
Comments:	

Site: ***Klondike Developments Inc.*** **Database:** CA

Ottawa ON

Certificate #:	2785-6SHLAU
Application Year:	2006
Issue Date:	8/11/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Klondike Developments Inc.*** **Database:** CA

Ottawa ON

Certificate #:	3603-6XAVNJ
Application Year:	2007
Issue Date:	2/5/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***City of Ottawa*** **Database:** CA

From Morgan's Grant Way to Old Carp Rd (Halton Terrace Extension) Ottawa ON

Certificate #:	1426-7VSV6P
Application Year:	2009
Issue Date:	9/16/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	

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

Site: ***Hugh Robert Sparks***
Lot 12, Conc. 3, March Tp Ottawa ON

Database: ***CA***

Certificate #: 7694-6AHJ4J
Application Year: 2005
Issue Date: 3/17/2005
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
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: ***Morgan's Grant***
Part of Lot 11, Concession 3 Ottawa ON

Database: ***CA***

Certificate #: 8692-54QSUG
Application Year: 01
Issue Date: 12/21/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Minto Developments Inc.
Client Address: 427 Laurier Avenue West, Suite 300
Client City: Ottawa
Client Postal Code: K1R 7Y2
Project Description: Stormwater management facility providing water quantity and quality control.
Contaminants:
Emission Control:

Site: ***Klondike Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7943-6PNT68
Application Year: 2006

Issue Date: 6/30/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SHELL C10235 ATTN ROB DUPUIS***
HWY 49 R R 2 CARP ON

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 46799025
Status: EXPIRED
Instance ID: 319282
Instance Type: FS Facility
Description: FS Cylinder Exchange
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:
Original Source: EXP
Record Date: Up to Mar 2012

Site: ***West Carleton Sand & Gravel***
McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carelton City of Ottawa CITY OF OTTAWA ON

Database: ***EBR***

EBR Registry No: IA05E0467
Ministry Ref No: 9797-6ASMMB
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 28, 2006
Proposal Date: April 11, 2005
Year: 2005
Instrument Type: (OWRA s. 53(1)) - Approval for sewage works
Off Instrument Name:
Posted By:
Company Name: West Carleton Sand & Gravel
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3725 Carp Road, P.O Box 264, Carp Ontario, K0A 1L0
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carelton City of Ottawa CITY OF OTTAWA

Site: ***Marcel Brazeau Ltd.***
Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA ON

Database: ***EBR***

EBR Registry No: 012-7185
Ministry Ref No: MNRF INST 28/16
Notice Type: Instrument Decision
Notice Stage:

Decision Posted:
Exception Posted:
Section:
Act 1:

Notice Date: October 26, 2017
Proposal Date: March 29, 2016
Year: 2016
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: Marcel Brazeau Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 130 Entreprise Road, Vars Ontario, Canada K0A 3H0
Comment Period:
URL:

Site Location Details:

Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA

Site: ***Mattamy (Half Moon Bay) Limited***
Part of Lot 11 and 12, Concession 3 (Rideau Front) Ottawa ON K2K 2M5

Database: ***ECA***

Approval No: 8294-AWMJGE
Approval Date: 2018-03-09
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Mattamy (Half Moon Bay) Limited
Address: Part of Lot 11 and 12, Concession 3 (Rideau Front)
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0576-AW2MCL-14.pdf

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Site: ***Kanata North Landowners Group Inc.***
March Rd from Maxwell Road to Shirley's Brook Drive, Shirley's Brook Drive from March Road to Sandhill Road Ottawa ON K1R 7Y2

Database: ***ECA***

Approval No: 5177-BHWJYH
Approval Date: 2019-11-17
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata North Landowners Group Inc.
Address: March Rd from Maxwell Road to Shirley's Brook Drive, Shirley's Brook Drive from March Road to Sandhill Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0381-BHLP24-14.pdf

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Site: ***Mattamy (Half Moon Bay) Limited***
Part of Lot 11 and 12, Concession 3 (Rideau Front) Ottawa ON K2K 2M5

Database: ***ECA***

Approval No: 2335-B5VJMM
Approval Date: 2018-10-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Mattamy (Half Moon Bay) Limited
Address: Part of Lot 11 and 12, Concession 3 (Rideau Front)

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3780-B5EM6Y-14.pdf

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Site: ***City of Ottawa***
March Road and Halton Terrace Ottawa ON K1P 1J1

Database: ***ECA***

Approval No:	1426-7VSV6P	***MOE District:***	Ottawa
Approval Date:	2009-09-16	***City:***	
Status:	Approved	***Longitude:***	-75.9421
Record Type:	ECA	***Latitude:***	45.3528
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: March Road and Halton Terrace
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8300-7VRQYE-14.pdf

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Site:
Hwy 49 Carp ON

Database: ***EHS***

Order No:	20001204004	***Nearest Intersection:***	SW Hwy 49 & 5th Rd
Status:	C	***Municipality:***	Lanark Carleton Twp
Report Type:	Basic Report	***Client Prov/State:***	ON
Report Date:	12/12/00	***Search Radius (km):***	0.50
Date Received:	12/4/00	***X:***	-76.049538
Previous Site Name:		***Y:***	45.317106
Lot/Building Size:	100m * 50m		

Additional Info Ordered:

Site: ***Pierces Corners Landfill The Corporation of the Township of Rideau City of Ottawa Part of Lot 11, Concession 3 Ottawa ON***

Database: ***LIMO***

ECA/Instrument No:	A461201	***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: Pierces Corners Landfill
The Corporation of the Township of Rideau
City of Ottawa

Site Location Details:
Service Area:
Page URL:

Site: ***West Carleton Sand & Gravel Inc.***
Lot 11-14, Conc 4 Ottawa ON

Database: ***NCPL***

Year: 2006
Site Name:
Facility Owner:
Discharge Type: Industrial Sewage
Sector: Miscellaneous
District Area: Ottawa
Type of Concern: C of A/Permit Non-Compliance
Contaminant: SUSPENDED SOLIDS
Status Report:

Details

Incident Date: 10/5/2006
Exceedance Start Date: 10/5/2006
Exceedance End Date: 10/5/2006
Limit/Unit/Freq: 25 mg/L
Quantity Min/Max: 32/32
Facility Action: Operational Process Modification
Ministry Action: Voluntary Abatement Program Underway

Site: ***ROBS SHELL***
HWY 49 CARP ON

Database: ***PRT***

Location ID: 2810
Type: retail
Expiry Date: 1994-10-31
Capacity (L): 2000
Licence #: 0034165001

Site: ***ROB'S SHELL ROB DUPUIS***
HWY 49 CARP ON

Database: ***PRT***

Location ID: 2810
Type: retail
Expiry Date: 1996-04-30
Capacity (L): 122600
Licence #: 0054321001

Site: ***Mattamy (Half Moon Bay) Limited***
Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No: 010-5959
Ministry Ref No: 8783-7PCUC4
Notice Type: Instrument Decision
Notice Stage:
Notice Date: June 26, 2009
Proposal Date: February 20, 2009
Year: 2009
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Half Moon Bay) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Comment Period:
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

URL:

Site Location Details:

Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA

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

Database: ***SPL***

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:

lot 12 ON

Database:
WWIS

Well ID:	1535508	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	5/28/2005
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:		***Abandonment Rec:***	
Water Type:		***Contractor:***	6907
Casing Material:		***Form Version:***	3
Audit No:	Z17642	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	012
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11316047	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	
Date Completed:	10-May-2005 00:00:00	***UTMRC Desc:***	
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961535508
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11330902
Casing No:	1
Comment:	
Alt Name:	

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- Jun 30, 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- Jun 30, 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-Apr 30, 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- Jun 30, 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-Jun 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 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, B.Eng., M.A.Sc.

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015
Thurber Engineering Limited
Oil Sand Tailings Group
Tailings Engineer

2009 – 2014
Carleton University
Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009
SLR Consulting Limited
Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

Mark S. D'Arcy, P. Eng.

patersongroup

- Geotechnical Engineering
- Environmental Engineering
- Hydrogeology
- Geological Engineering
- Materials Testing
- Building Science
- Archaeological Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present
Paterson Group Inc.
Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa