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**Paterson Group Inc.**

**Consulting Engineers**  
154 Colonnade Road South  
Ottawa (Nepean), Ontario  
Canada K2E 7J5

**Tel: (613) 226-7381**  
**Fax: (613) 226-6344**  
**[www.patersongroup.ca](http://www.patersongroup.ca)**

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**Phase I-Environmental Site Assessment**

1015 March Road  
Ottawa, Ontario

**Prepared For**

Kanata United

**December 7, 2020**

**Report: PE4677-1**

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## EXECUTIVE SUMMARY

### Assessment

Paterson Group was retained by Kanata United. to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 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 subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was originally developed circa 1977 with the existing residential building. The property has always been used as agricultural land as well as a residence. Historical land use of the neighbouring properties included residential and agricultural areas with no potentially contaminating activities (PCAs) being identified within the study area.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by an inhabited, bungalow with a basement. Neighbouring land use in the Phase I Study Area consists of residential dwellings and agricultural lands and no PCAs were noted with the current use of the subject site or the surrounding properties.

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

### Recommendations

Based on the age of the building, potentially asbestos containing materials (ACMs) that may be present in the subject building include dry wall joint compound, ceiling stipple and vinyl tiles. Based on date of construction, lead-based paints (LBPs) may be present within building. All building materials and painted surfaces were observed to be in good condition at the time of the site visit.

It is our understanding that the subject building will continue to be used as a residential dwelling until the site is redeveloped. Prior to any renovation or demolition activities, a designated substance survey (DSS) must be conducted for the existing structures, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

## **1.0 INTRODUCTION**

At the request of Kanata United., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 1015 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 properties.

Paterson was engaged to conduct this Phase I-ESA by Mr. Michael Wong from Kanata United. The head office is located at 856 Melwood Avenue, Ottawa, Ontario. Mr. Wong can be reached by telephone at (613) 294-5960.

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 in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and 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 and 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:	1015 March Road, Ottawa, Ontario
Legal Description:	Part of Lot 13, Concession 3, Geographic Township of March, City of Ottawa
Location:	The site is located on the west side of March Road, approximately 750 m north of Old Carp Road, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	04526-1625
Latitude and Longitude:	45° 21' 41.12" N, 75° 56' 50.42" W
<b>Site Description:</b>	
Configuration:	Rectangular
Area:	4.9 hectares (approximately)
Zoning:	RC – Residential Zone RU – Rural Zone
Current Use:	The subject site is occupied by a residential dwelling with an agricultural field.
Services:	The subject site is serviced by a private well and septic system.

### **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 properties, and if warranted, neighbouring properties;
- ☐ Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made 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 assignment. 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**

The subject site was developed with a residential dwelling in 1977.

#### **Fire Insurance Plans**

Fire Insurance Plans (FIPs) are not available for the subject site and surrounding lands.

#### **City of Ottawa Street Directories**

City directories were reviewed in approximately ten (10) year intervals back to 2000 as no directories were available prior to amalgamation. The subject site was first listed in the 2000 directories as a residential property and has remained as such to the present day.

Neighbouring properties in the Phase I study area were listed as residential dwellings. There were no listings associated with potentially contaminating activities.

#### **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, aerial photograph and city directories.

#### **Plan of Survey**

Paterson was provided with a Survey Plan dated October 28, 2008, prepared by Annis O'Sullivan Vollebekk Ltd. The plan depicts the subject site in its current configuration. Appendix 1 contains a copy of the Survey Plan.

## **Previous Engineering Reports**

Previous engineering reports have been completed by others in the general vicinity of the subject site. The reports included a geotechnical and hydrogeological report that were completed by Kollaard Associates on November 17, 2006 and April 9, 2009. A review of these reports did not identify any additional environmental concerns regarding the current subject property.

## **4.2 Environmental Source Information**

### **Environment Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on July 9, 2019. No listings for the subject site or properties within the study area were identified 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.

### **Ministry of the Environment, Conservation and Parks (MECP) Submissions**

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the property. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

### **MECP Instruments**

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

### **MECP Incident Reports**

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties.

The response from the MECP FOI office indicated that there were no documented records for the Phase I Property or adjacent lands.

### **MECP Waste Management Records**

A request was submitted to the MECP FOI office for information with respect to waste management records. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

### **MECP Brownfields Environmental Site Registry**

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

### **MECP Waste Disposal Site Inventory**

The Ontario Ministry of Environment 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. There are no former waste disposal sites located within 250 m of the Phase I Study Area.

### **MECP Coal Gasification Plant Inventory**

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant 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 website of the Ontario Ministry of Natural Resources (MNR) on July 9, 2019. The search did not reveal any areas of natural significance within the Phase I study area.

### **Technical Standards and Safety Authority (TSSA)**

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site 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. There were no former landfill sites identified within the Phase 1 Study Area.

### **City of Ottawa Historical Land Use Inventory (HLUI)**

A search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. The search indicated that there were no activities associated with the subject site or with properties situated 250m from the subject property. A copy of the HLUI request form is provided 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. Based on the review, the following observations have been made:

- |      |   |
|------|---|
| 1976 | The subject site is vacant agricultural land with no obvious buildings. Neighbouring lands to the north, north west and south east of the site consist of some residential dwellings. Much of the surrounding area is occupied by vacant agricultural fields and treed lands. |
| 1991 | The subject site now has a residential dwelling located in the southeast corner of the property. The surrounding lands are primarily comprised of agricultural fields with some areas being developed with residential dwellings.   |
| 2008 | No significant changes are apparent on the subject site or neighbouring lands aside from the development of a large subdivision to the southeast of the subject site.   |

2017            The subject site and surrounding lands appear unchanged from the previous photograph.

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

### **Topographic Maps**

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a north-easterly direction towards the Ottawa River. 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, the site is situated within the Ottawa Clay Plain physiographic region.

### **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 this information, bedrock in the area consists of interbedded sandstone dolomite of the March Formation. The surficial geology on the northern and southern portion of the site consist of offshore marine sediments (erosion terraces) and exposed bedrock, respectively, with a drift thickness ranging from 0 to 3 m.

### **Water Well Records**

A well record search was conducted on July 9, 2019 for all drilled wells within 250 m of the subject site. The search returned twenty-three (23) well records: twenty-one (21) domestic wells and two (2) abandoned wells. The abandoned well records from 1992 and 2006 were identified more than 150 m northwest of the subject site and are not considered to pose a concern to the subject site. The domestic wells were drilled between 1957 to 2013 to depths ranging from 13.7 to 45.7 m below the ground surface.

One domestic well drilled in 1977 was identified on the subject site. The domestic well was drilled to a depth of approximately 35 m below the ground surface. It is expected that this domestic well is still being utilized for potable purposes.

Based on this record, the subsurface profile consists of native clay overlying limestone and sandstone bedrock. The bedrock on-site was intercepted at approximately 3.35 m below the ground surface.

The stratigraphy in the Phase I Study Area generally consists of the same profile as the subject site, however, the overburden thickness varies between 0.9 to 3.66 m below the ground surface. A copy of the well records has been included in Appendix 2.

### **Areas of Natural Significance and Water Bodies**

No areas of natural significance or bodies of water were identified on the Phase I Property. A small creek was identified on the adjacent property to the west, approximately 50 m from the subject site.

## **5.0 INTERVIEWS**

### **Property Owner Representative**

Kanata United, the current property owner was interviewed on July 22, 2019 during the site assessment. Mr. Michael Wong has owned the property since early 2003. The residential dwelling was converted to natural gas in 2009, prior to which it was on oil. Mr. Wong is unaware of any aboveground storage tanks, underground storage tanks or any potential environmental concerns with respect to the subject property.

## **6.0 SITE RECONNAISSANCE**

### **6.1 General Requirements**

The site visit was conducted on December 4, 2020. Weather conditions were overcast with a temperature of approximately 1°C. Mr. Samuel Berube from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

### **6.2 Specific Observations at the Phase I Property**

#### **Site Features**

The site is occupied by a one storey residential building with basement and a private garage/shed.



The dwelling is situated in the south-eastern corner of the property with grass covered areas at the rear and side of the building. The private garage/shed is located to the south of the residence and is surrounded by overgrown grass and other vegetation. The remainder of the property is a large agricultural field that is currently used by a nearby farmer.

The property is relatively flat and at grade with the neighbouring properties.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit. No areas of staining, stressed vegetation or unidentified substances were observed on-site at this time.

### **Subsurface Structures and Utilities**

Underground utility services on the property include natural gas and the home operates on a private septic system for wastewater. The septic tank is located on the north east side of the property in the front yard of the residential dwelling. There is also a private well being utilized on the subject site which is in the back yard of the residence.

### **Buildings and Structures**

The subject building was built circa 1977. The exterior of the dwelling is finished in tan brick with some areas containing plastic siding and has a sloped shingle style roof.

The private shed/garage was constructed in conjunction with the residential circa 1977.

### **Interior Assessment**

A general description of the interior of the subject building is as follows:

- ☐ Floor finishes consisted of vinyl tiles, hardwood, laminate and concrete (basement);
- ☐ Wall finishes consist of dry wall, wood, ceramic tiles and concrete/stone and mortar (basement);
- ☐ Ceilings are finished with ceiling stipple, decorative plaster, ceiling tiles;
- ☐ Lighting is provided by incandescent fixtures.

Based on the age of the building, potentially asbestos containing materials (ACMs) maybe present in the subject building, including dry wall joint compound, ceiling stipple and vinyl tiles. Lead-based paints may also be present on painted surfaces.

### **Fuel and Chemical Storage**

The building is heated by a natural gas fired furnace, prior to which a fuel oil burning furnace was used. The dwelling converted to natural gas in 2009. The basement concrete floor did not show any signs of staining or unusual odour at the time of the site visit

### **Wastewater Discharge**

The site is not connected to the City of Ottawa sanitary sewer system. Given the rural setting, a private sewage system is being utilized on the Phase I Property. There was a sump pump noted onsite as there had been slight water infiltration into the basement prior to the site visit. No mould or staining was observed as a result of the seepage. Small sporadic pools of water that had no obvious sheen or discoloring were noted in the basement but were not posing any environmental hazards. No potential environmental concerns were identified inside the subject building at the time of the assessment.

### **Waste Management**

Garbage is stored inside of the private garage that is located on the subject site. The waste generated from the site is non-hazardous and collected weekly by the municipality.

### **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 subject site is as follows:

- ☐ Northeast - March Road, followed by agricultural land;
- ☐ Southwest - Vacant land;
- ☐ Southeast - Agricultural land;
- ☐ Northwest - Residential dwelling, followed by St. Isidore School.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and agricultural purposes.

No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE4677-2 – Surrounding Land Use Plan.

## **7.0 REVIEW AND EVALUATION OF INFORMATION**

### **7.1 Land Use History**

Based on the available historical records, the Phase I Property was initially developed with the present-day residential building circa 1977. No potential environmental concerns were noted with the historical or current land use of the subject property.

#### **Potentially Contaminating Activities and Areas of Potential Environmental Concern**

No PCAs were identified within the Phase I ESA Study Area and therefore, no APEC's were identified on the subject property.

#### **Contaminants of Potential Concern**

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

### **7.2 Conceptual Site Model**

#### **Geological and Hydrogeological Setting**

Based on the information from the Geological Survey of Canada, the overburden in the area consists of offshore marine sediments (clay) with a drift thickness ranging from 1 to 3 m. Bedrock in the area consists of interbedded sandstone and limestone of the March Formation.

Based on the domestic well record, the site stratigraphy consists of native clay overlying limestone and sandstone bedrock. Bedrock was reached at approximately 3.35 m below the ground surface.

Groundwater flow is interpreted to be in a north-easterly direction towards the Ottawa River.

#### **Existing Buildings and Structures**

The site is occupied by a one (1) storey residential building with a single basement level and a private garage/shed.

### **Water Bodies and Areas of Natural Significance**

No areas of natural significance were identified on the Phase I Property or within the Phase I Study Area. One small creek was identified approximately 50 m west of the subject property.

### **Drinking Water Wells**

One domestic well drilled in 1977 was identified on the subject site. The domestic well was drilled to a depth of approximately 35 m below the ground surface. This domestic well is still being utilized for potable purposes.

### **Neighbouring Land Use**

Neighbouring land use in the Phase I Study Area consists primarily of residential, and agricultural fields.

### **Potentially Contaminating Activities and Areas of Potential Environmental Concern**

There are no PCAs or APECs on or near the subject site

### **Contaminants of Potential Concern**

There are no contaminants of potential concern.

### **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 is no APECs on the subject site. 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 CONCLUSIONS

### Assessment

Paterson Group was retained by Kanata United to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 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 subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was originally developed circa 1977 with the existing residential dwelling. The property has always been used as agricultural land as well as a residence. Historical land use of the neighbouring properties included agricultural and residential areas with no potentially contaminating activities (PCAs) being identified within the study area.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by a bungalow with a basement. Neighbouring land use in the Phase I Study Area consists of residential dwellings and agricultural lands with no PCAs noted with the current use of the subject site or the surrounding properties.

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

### Recommendations

Based on the age of the building, potentially asbestos containing materials (ACMs) that may be present in the subject building include dry wall joint compound, ceiling stipple and vinyl tiles. Based on date of construction, lead-based paints (LBPs) may be present within building. All building materials and painted surfaces were observed to be in good condition at the time of the site visit.

It is our understanding that the subject building will continue to be used as a residential dwelling until the site is redeveloped. Prior to any renovation or demolition activities, a designated substance survey (DSS) must be conducted for the existing structures, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety

## 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 and 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 Kanata United. Permission and notification from Kanata United and Paterson will be required to release this report to any other party.

### Paterson Group Inc.



Samuel Berube, B.Eng.



Mark S. D'Arcy, P.Eng.



### Report Distribution:

- ☐ Kanata United
- ☐ Paterson Group

## 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.  
Office of Technical Standards and Safety Authority, Fuels Safety Branch.  
MNR Areas of Natural Significance.  
MECP Water Well Record Inventory.  
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.  
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.  
geoOttawa: City of Ottawa electronic mapping website.  
City of Ottawa Historical Land Use Inventory (HLUI) Database

### **Local Information Sources**

Personal Interviews.

### **Public Information Sources**

Google Earth.  
Google Maps/Street View.

# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4677-1 – SITE PLAN**

**DRAWING PE4677-2 – SURROUNDING LAND USE PLAN**

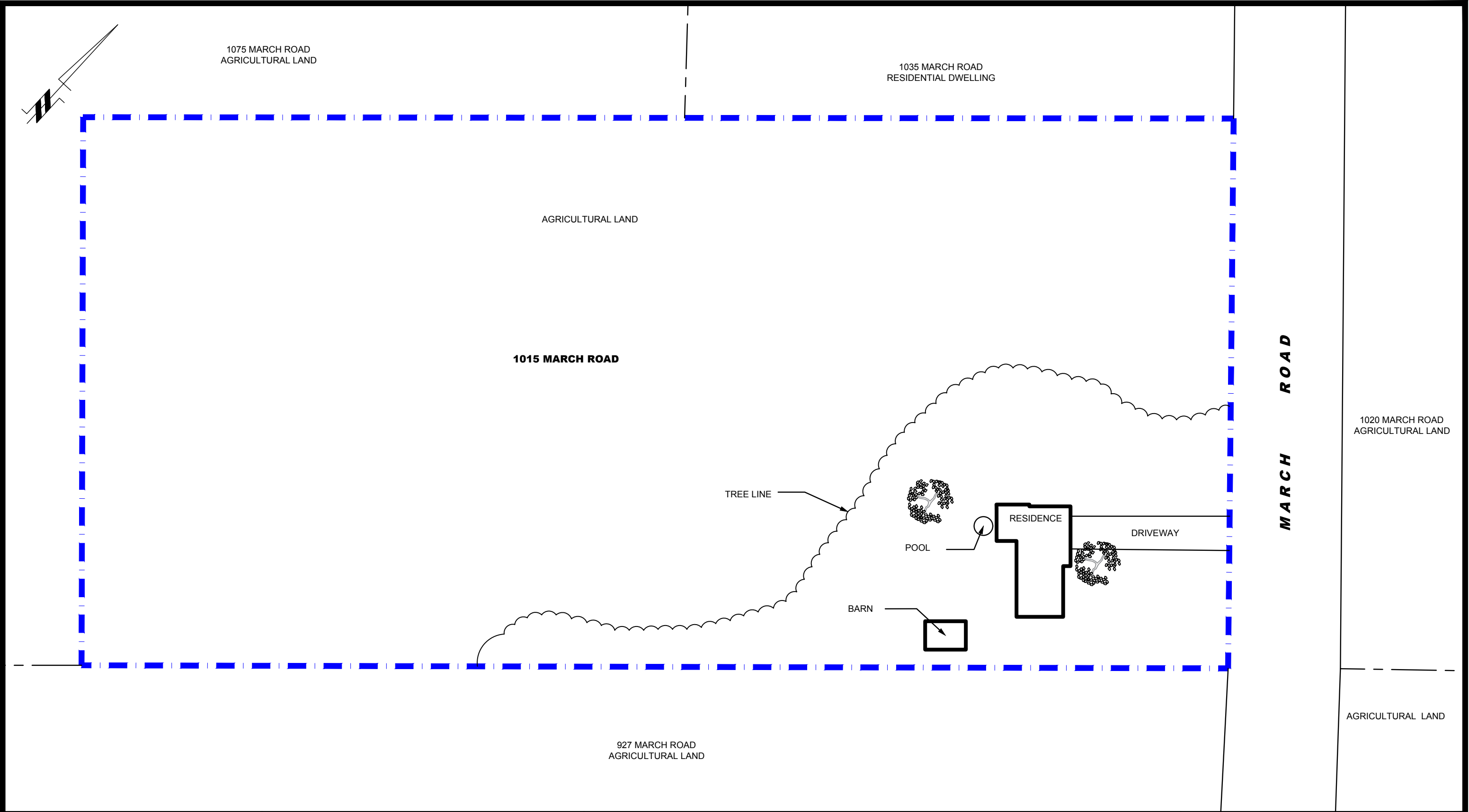




FIGURE 1  
KEY PLAN



FIGURE 2  
TOPOGRAPHIC MAP



**patersongroup**  
consulting engineers

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

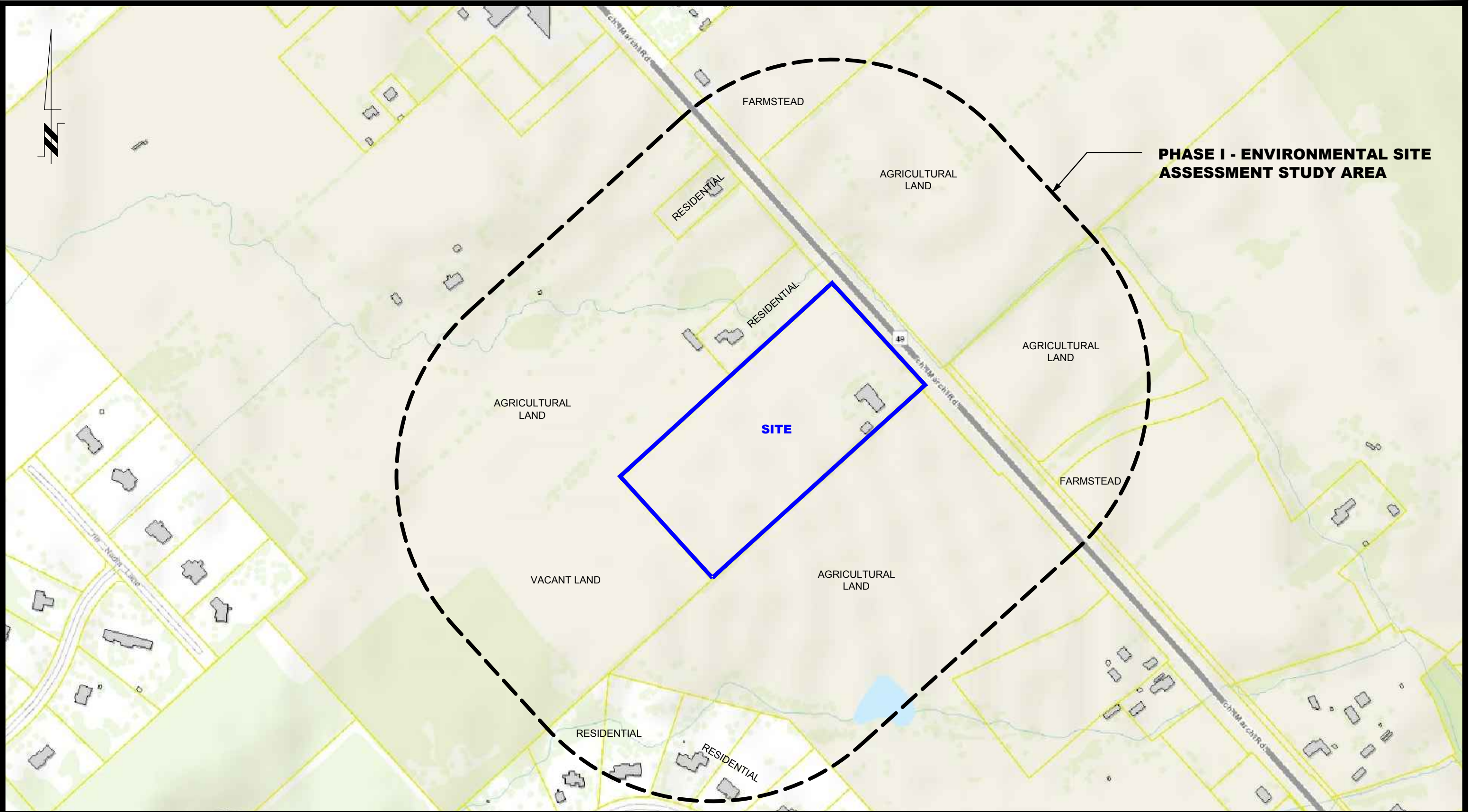
NO.	REVISIONS	DATE	INITIAL

KANATA, ONTARIO	
Title:	
SITE PLAN	

Scale:	1:1000	Date:	07/2019
Drawn by:	YA	Report No.:	PE4677-1
Checked by:	MW	Dwg. No.:	PE4677-1
Approved by:	MSD	Revision No.:	

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**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

KANATA, ONTARIO	
Title:	
SURROUNDING LAND USE PLAN	

KANATA UNITED  
PHASE I - ENVIRONMENTAL SITE ASSESSMENT  
1015 MARCH ROAD

Scale:	1:4000	Date:	07/2019
Drawn by:	YA	Report No.:	PE4677-1
Checked by:	MW	Dwg. No.:	PE4677-2
Approved by:	MSD	Revision No.:	

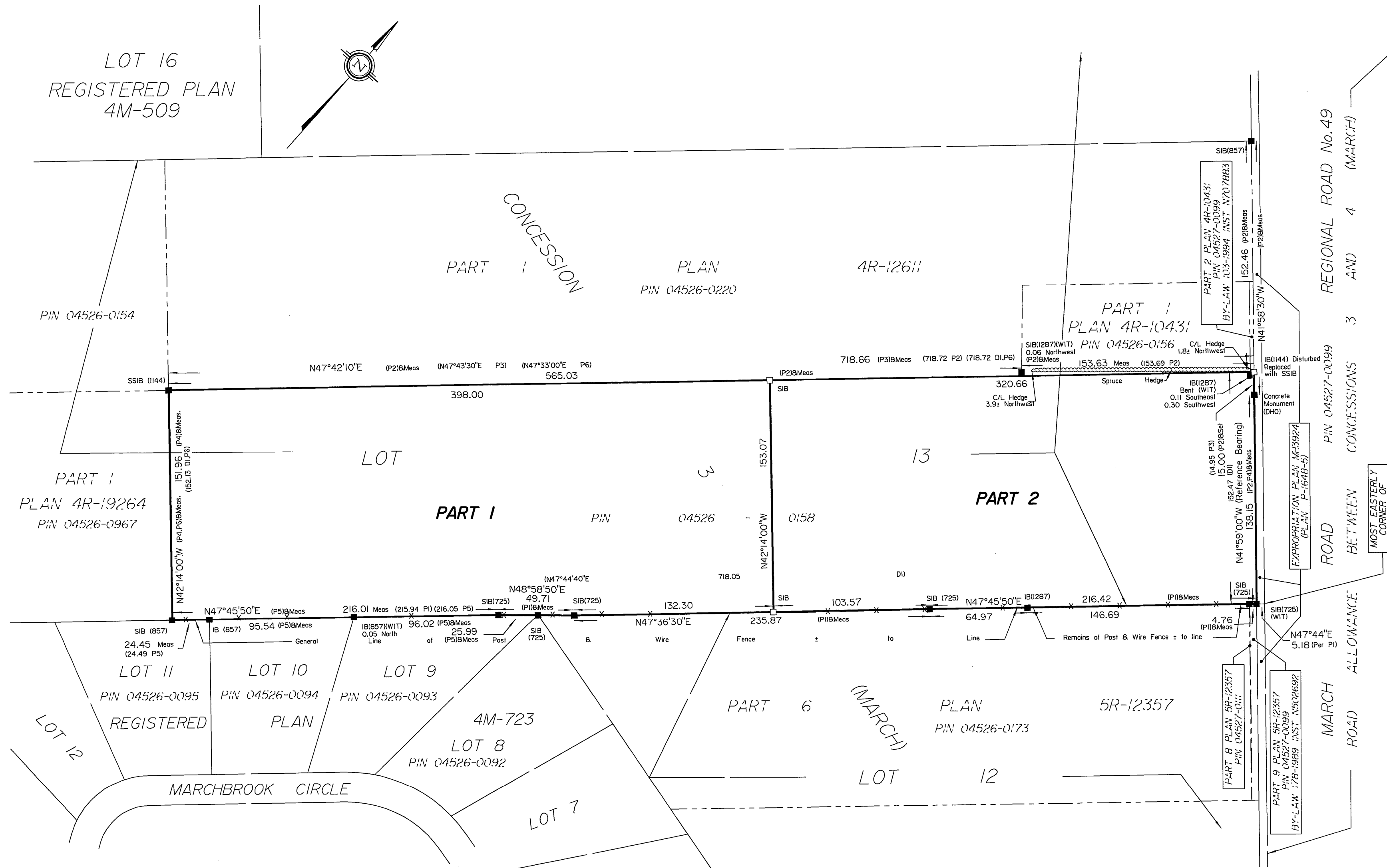
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# **APPENDIX 1**

**SURVEY PLAN**

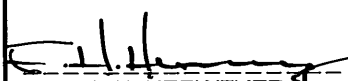
**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**



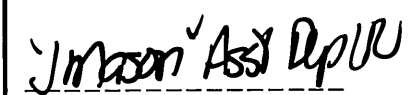
I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE: Oct. 28, 2008

  
E.H. HERWEYER  
ONTARIO LAND SURVEYOR

**PLAN 4R-23264**

RECEIVED AND DEPOSITED DATE: Oct 29, 08

  
J. MASON  
LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON NO. 4.

SCHEDULE			
PART	LOT	CONCESSION	PIN
1	PART OF LOT 13	3	ALL OF PIN 04526-0158
2		MARCH	

PLAN OF SURVEY OF

**PART OF LOT 13  
CONCESSION 3  
GEOGRAPHIC TOWNSHIP OF MARCH  
CITY OF OTTAWA**

Surveyed by Annis, O'Sullivan, Vollebakk Ltd.

Scale 1 : 2000

80 60 40 20 0 40 80 Metres

Metric

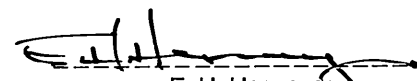
DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

**Surveyor's Certificate**

I CERTIFY THAT :

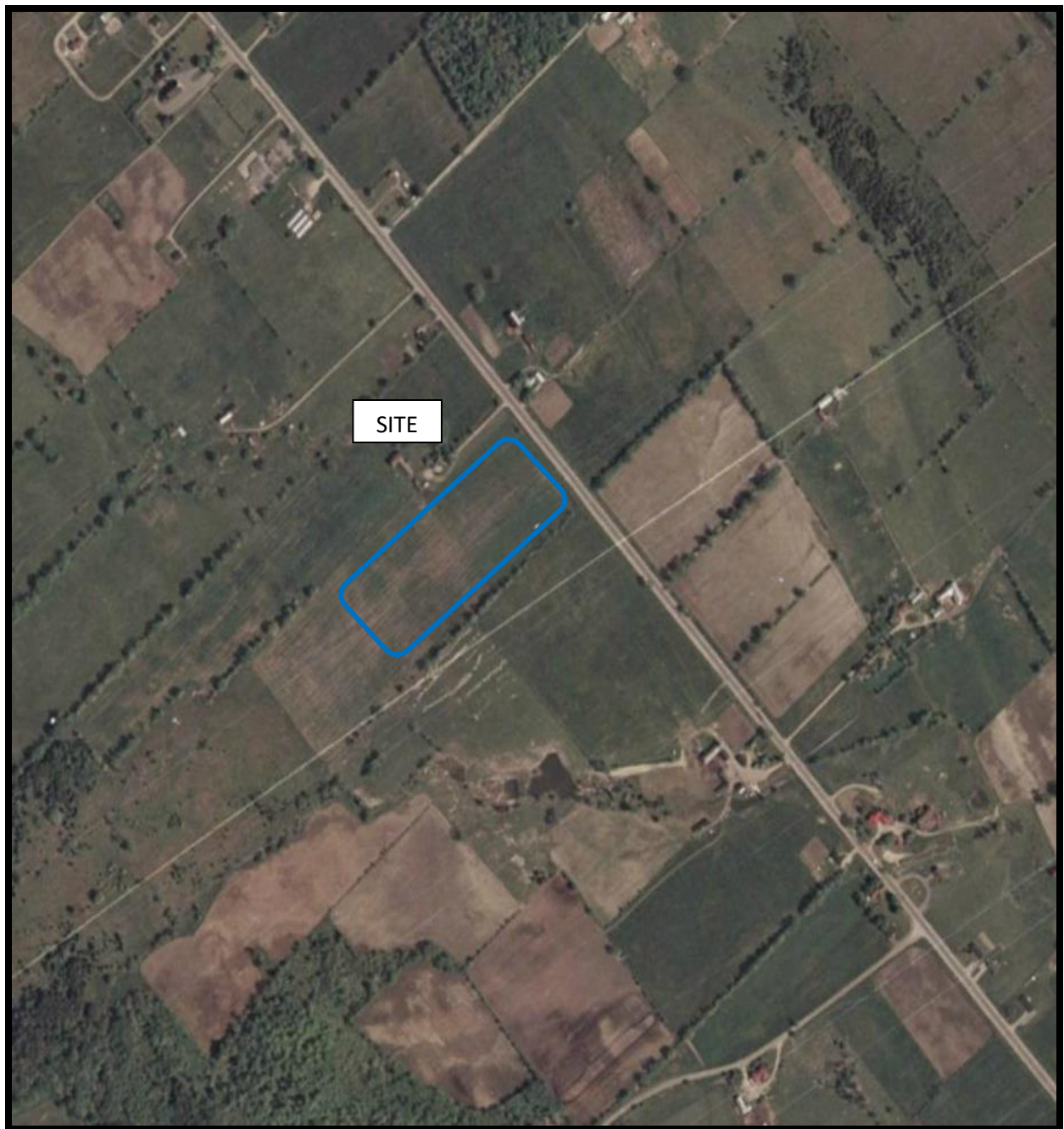
1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act, the Land Titles Act and the regulations made under them.
2. The survey was completed on the 14th day of October, 2008.

Oct. 28, 2008  
Date

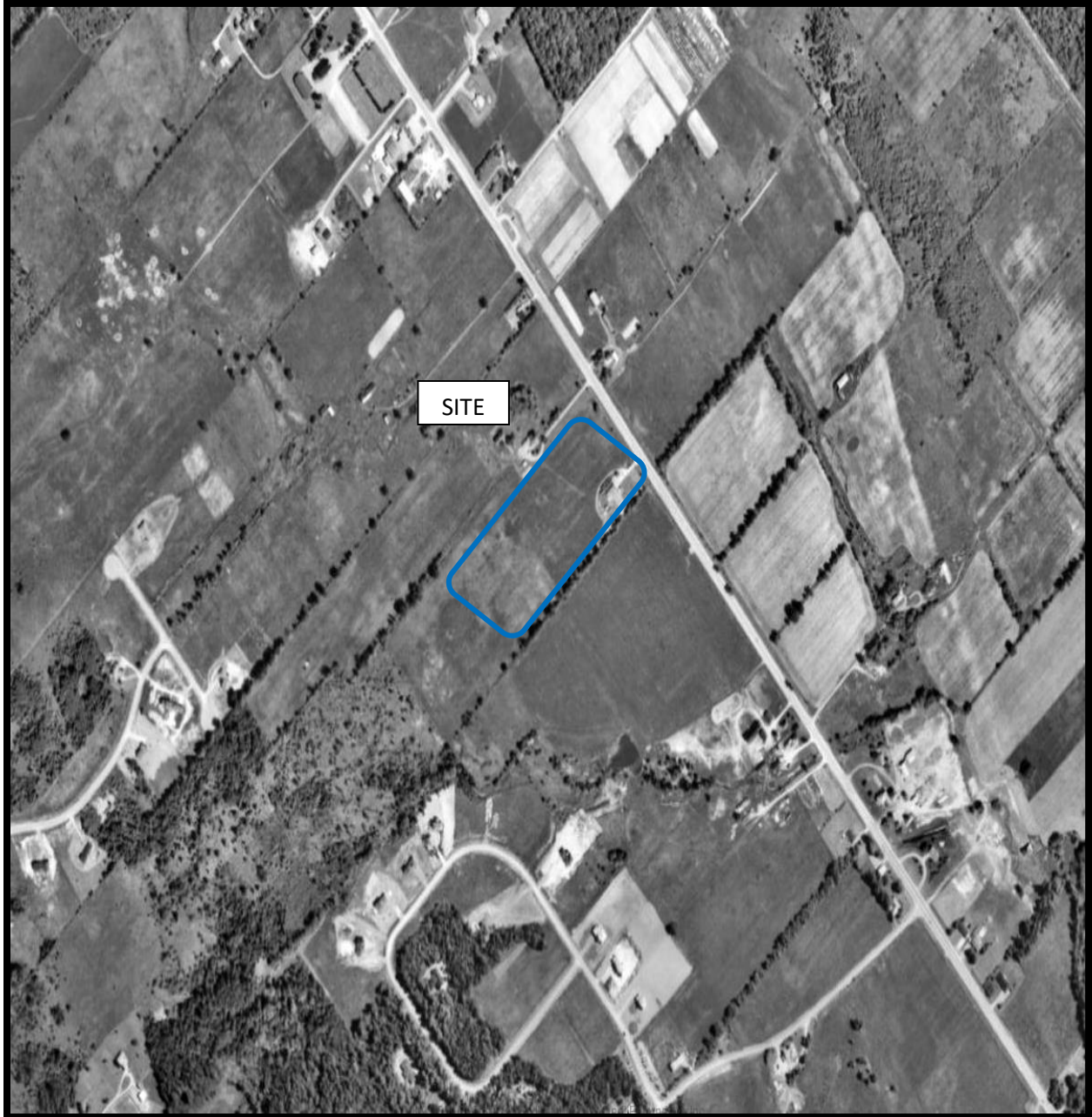
  
E. H. Herweyer  
Ontario Land Surveyor

- Notes & Legend**
- Denotes Survey Monument Planted
  - Survey Monument Found
  - SIB Standard Iron Bar
  - SSIB Short Standard Iron Bar
  - IB Iron Bar
  - (WIT) Witness
  - (AOG) Annis, O'Sullivan, Vollebakk Ltd.
  - Meas. Measured
  - (D1) Inst. N369633
  - (P1) Plan 5R-12357
  - (P2) Plan 4R-12611
  - (P3) Plan 4R-10431
  - (P4) Plan 4R-19264
  - (P5) Registered Plan 4M-723
  - (P6) Plan by (1144), dated March 7, 1978
  - C/L Centreline





AERIAL PHOTOGRAPH 1976



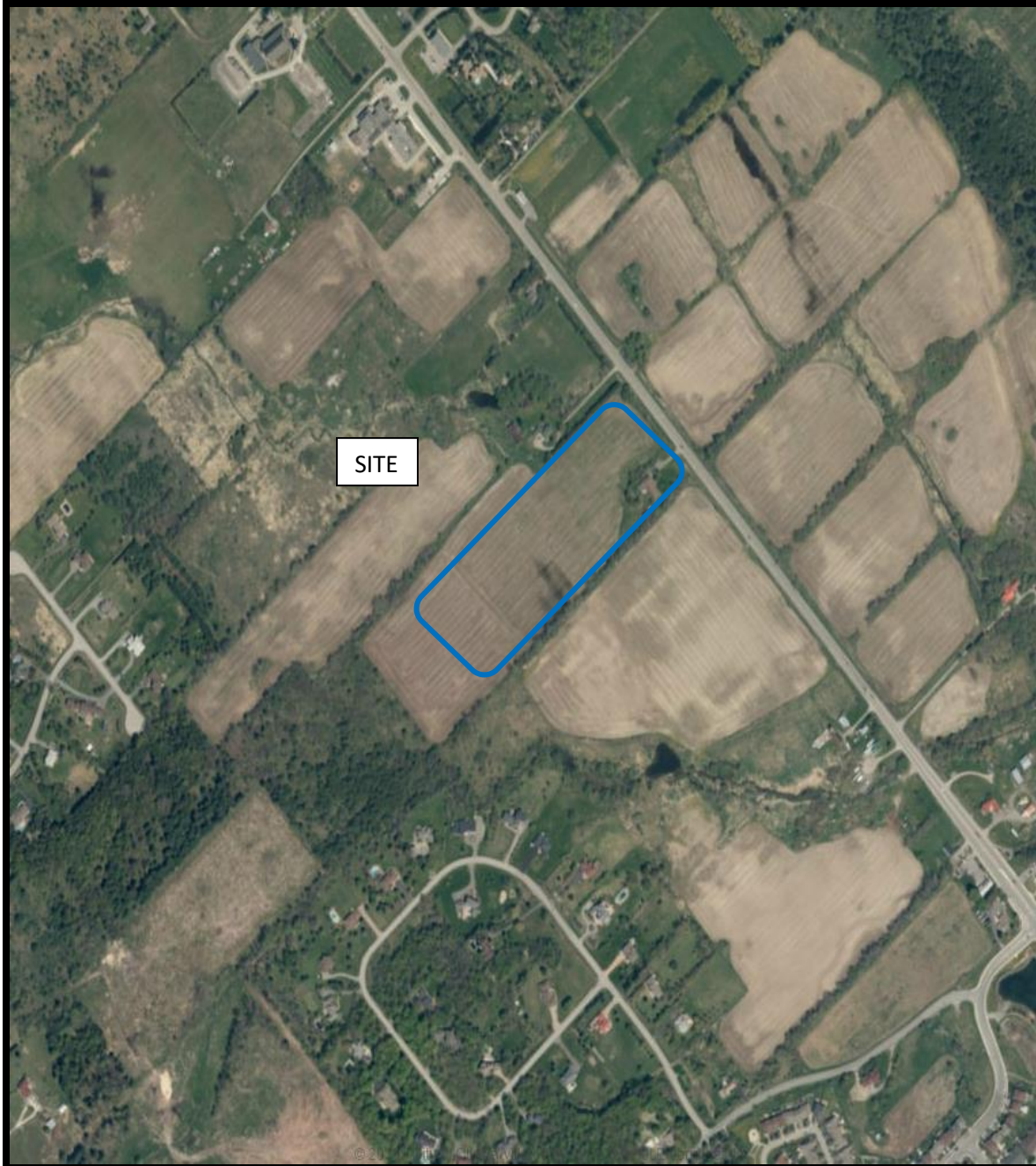
AERIAL PHOTOGRAPH 1991





AERIAL PHOTOGRAPH 2008





AERIAL PHOTOGRAPH 2017



## Site Photographs

PE4677

1015 March Road – Ottawa, ON

July 22, 2019



Photograph 1: Front view of the subject property, looking southwest.



Photograph 2: Rear view of subject property, looking northwest.

# **APPENDIX 2**

**MECP FREEDOM OF INFORMATION**

**TSSA CORRESPONDENCE**

**HLUI RESPONSE**

**MECP WELL RECORDS**

Ministry of the Environment,  
Conservation and Parks

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

Access and Privacy Office

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

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

12<sup>e</sup> étage  
40, avenue St. Clair ouest  
Toronto ON M4V 1M2  
Tél. : (416) 314-4075



July 15, 2019

Adrian Menyhart  
Paterson Group Inc  
154 Colonnade Road  
Ottawa, ON K2E 7J5

Dear Adrian Menyhart:

RE: ***Freedom of Information and Protection of Privacy Act Request***  
**Our File # A-2019-04655, Your Reference PE4677**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1015 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. This file is now closed.**

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

If you have any questions regarding this matter, please contact Sasha Naidu at 416-314-4075 or [sasha.naidu@ontario.ca](mailto:sasha.naidu@ontario.ca).

Yours truly,

Janet Dadufalza  
Manager, Access and Privacy

## Samuel Berube

---

**From:** Mandy Witteman  
**Sent:** July 9, 2019 8:32 AM  
**To:** Samuel Berube  
**Subject:** FW: Search Records Request (PE4666) (No Record)

See below – email to TSSA for inquiring of neighbouring properties. You can ask them to do a search for 10 properties free of charge

Cheers,

Mandy Witteman

**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

---

**From:** Public Information Services <publicinformationservices@tssa.org>  
**Sent:** July-02-19 1:47 PM  
**To:** Mandy Witteman <MWitteman@Patersongroup.ca>  
**Subject:** Re: Search Records Request (PE4666) (No Record)

Hello,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (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](mailto:publicinformationservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thank you and have a great day,

Roxana



## 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](mailto:publicinformationservices@tssa.org)

[www.tssa.org](http://www.tssa.org)



---

**From:** Mandy Witteman <[MWitteman@Patersongroup.ca](mailto:MWitteman@Patersongroup.ca)>

**Sent:** July 2, 2019 12:24 PM

**To:** Public Information Services <[publicinformationservices@tssa.org](mailto:publicinformationservices@tssa.org)>

**Subject:** Search Records Request (PE4666)

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:

Langstaff Drive: 147, 119, 118

Carp Rd: 3806, 3790, 3709

Cavanagh Dr: 105, 102

Donald B. Munro Dr: 405

Thank you.

Cheers,

Mandy Witteman

**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

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.





File Number: D06-03-19-0106

August 15, 2019

Samuel Berube  
Paterson Group  
154 Colonnade Road South  
Ottawa, Ontario  
K2E 7J5

*Sent via email [sberube@patersongroup.ca]*

Dear Mr. Berube,

**Re: Information Request  
1015 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:

- *Environmental Remediation Unit:* The City's Environmental Remediation Unit has environmental records on file pertaining to properties adjacent to the subject property. Visit <https://ottawa.ca/en/city-hall/accountability-and-transparency/accountability-framework/freedom-information-and-protection-privacy/access-information> to submit requests for information under the Municipal Freedom of Information and Protection of Privacy Act.

**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:

*Shaping our future together  
Ensemble, formons notre avenir*

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](http://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  
Télééc: (613) 560-6006  
[www.ottawa.ca](http://www.ottawa.ca)



- There are no activities associated with the properties located within 250m of the Subject Property.

A site map has been included to show the location of the Subject Property.

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 key 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](mailto:HLUI@ottawa.ca)

Sincerely,

A handwritten signature in cursive script that reads "Samantha Gatchene".

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. D06-03-19-0106




Scale 1: n/a

1015 March Road  
Ottawa, ON  
File # D06-03-19-0106  
Samantha Gatchene



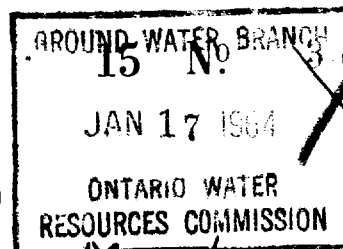
Overview

 = Subject Site

388A



31G5d



UTM 18 42 64 310 E

Co. 5 R 50 23 110 5 N

The Ontario Water Resources Commission Act

Elev. 14 R 0 2 6 0

# WATER WELL RECORD

Basin 25 L Carlton

County or District

Township, Village, Town or City

Con 111

Lot 12

Date completed

23

(day)

May

month

1963

year)

Address 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

### Overburden and Bedrock Record

clay & broken rock  
 limestone  
 sandstone

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0

12

12

38

38

60

60

fresh

## Water Record

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 H. Scharf

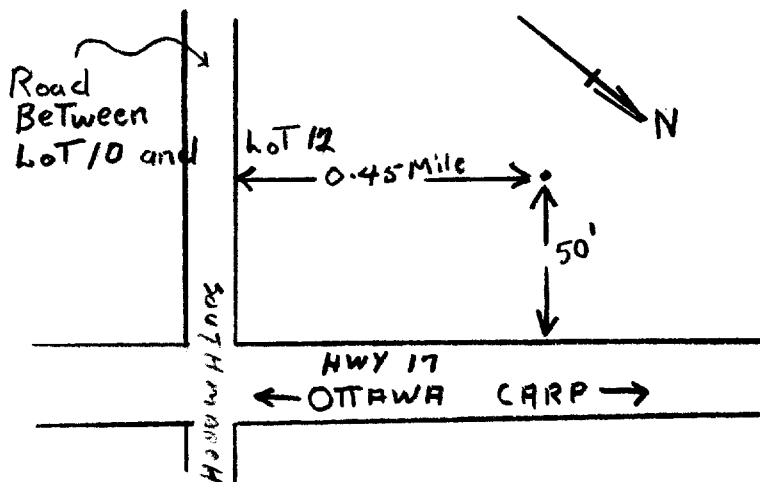
Address

Date May 23 / 63

(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.



UTM 18 425840

SR 5023770

Elev. 4R 0285

Basin 25 CARLETON

Con. 3 Lot 13

The Ontario Water Resources Commission Act

# WATER WELL RECORD

Township, Village, Town or City

Date completed 26 MAY 67

Address BRI SOUTH MARCA

## Casing and Screen Record

Inside diameter of casing 2  
Total length of casing 22  
Type of screen  
Length of screen  
Depth to top of screen  
Diameter of finished hole 2

## Pumping Test

Static level TOP  
Test-pumping rate 24 G.P.M.  
Pumping level 10  
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 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	0	10		
Limestone & sandstone	10	65	65	FRESH

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

NEW HOUSE

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

Drilling or Boring Firm

CDU FRESHE

Address OTTAWA

Licence Number 2676

Name of Driller or Borer S. MARCH

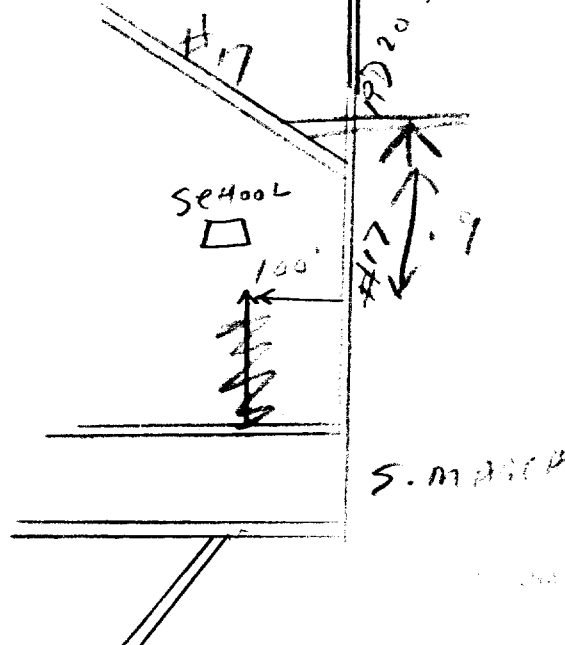
Address

Date JUNE 15

(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.

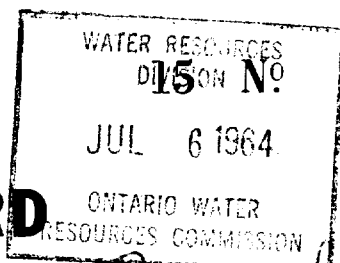


0255-9576/96/0005-0000\$05.00/0

414  
UTM 118 426465 E



3195d



3414 e

C 5 R 50 2 3 2 70 N

The Ontario Water Resources Commission Act

Elev: 4 R 0260

# WATER WELL RECORD

Basin 25 11  
County or District Carl

Township, Village, Town or City March

Con. 4 Lot 12

Date completed 6 Feb 64  
(day month year)

Address 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

### Overburden and Bedrock Record

clay + boulders  
sandstone  
granite

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0  
9  
40

9  
40  
51

50

fresh

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 Xavanagh

Address

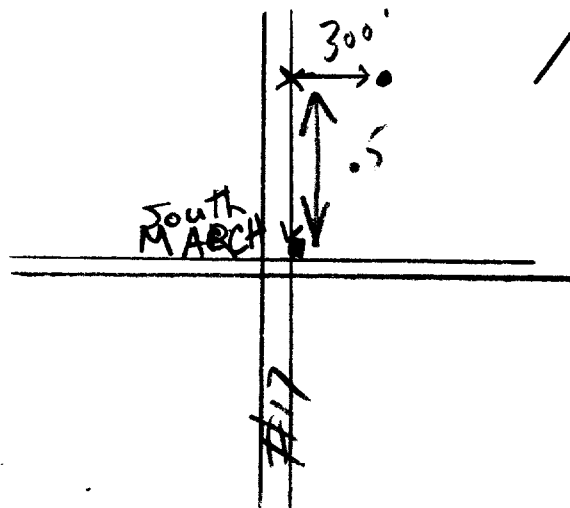
Date 9/3/64

Halter Xavanagh  
(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.

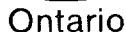


OWRC COPY

BUNGALOW - IMITATION GREEN SIDING.







# WATER WELL RECORD

11

11516260

MUNICIP. 15006

CON.  
| *Can*

10.3

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON., BLOCK, TRACT, SURVEY, ETC.

0125-27

CarlstonMatch

3

DATE COMPLETED

48-53

6 Primrose Ave. Ottawa, Ontario

PAY 04

10

77

NG

**ELEVATION**

BASIN CODE 1

1

11

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31	000960579	00116051379	00352151873	0115218			
32							

41	10	14	15	21
<b>WATER RECORD</b>				
WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	14	
15-18	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	19	
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	24	
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	29	
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	34	

51 CASING & OPEN HOLE RECORD					
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET		
			FROM	TO	
6 1/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	12	188	0  22	0022  225
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	19			20-23 0115
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	26			27-30

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	31-33	D.P. DIAMETER	34-38	LENGTH	39-40
			INCHES		FEET	
	MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN		41-44	50
					FEET	

61		PLUGGING & SEALING RECORD	
DEPTH SET AT FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)	
FROM	TO		
10-13	14-17		
18-21	22-25		
26-29	30-33	80	

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		T-16	DURATION OF PUMPING		17-18	
	1 <input checked="" type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER		0015		GPM	01	15-16 HOURS	17-18 MINS	
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25	WATER LEVELS DURING			1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY			
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES				
	020	070	070	26-28	070	29-31	070	32-34	070	
	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	
	1. FLOWING GIVE RATE		38-41	PUMP INTAKE SET AT			WATER AT END OF TEST		42	
	GPM		FEET	1 <input checked="" type="checkbox"/> CLEAR		2 <input type="checkbox"/> CLOUDY				
	RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING	43-45	RECOMMENDED PUMPING RATE		46-49			
	<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		075	FEET		0005		GPM		
50-53		GPM / FT. SPECIFIC CAPACITY								

<p>54</p> <p><b>FINAL STATUS OF WELL</b></p>	<p>1 <input checked="" type="checkbox"/> WATER SUPPLY</p> <p>2 <input type="checkbox"/> OBSERVATION WELL</p> <p>3 <input type="checkbox"/> TEST HOLE</p> <p>4 <input type="checkbox"/> RECHARGE WELL</p>	<p>5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY</p> <p>6 <input type="checkbox"/> ABANDONED POOR QUALITY</p> <p>7 <input type="checkbox"/> UNFINISHED</p>
<p>55-56</p> <p><b>WATER USE</b></p>	<p>1 <input checked="" type="checkbox"/> DOMESTIC</p> <p>2 <input type="checkbox"/> STOCK</p> <p>3 <input type="checkbox"/> IRRIGATION</p> <p>4 <input type="checkbox"/> INDUSTRIAL</p> <p><input type="checkbox"/> OTHER _____</p>	<p>5 <input type="checkbox"/> COMMERCIAL</p> <p>6 <input type="checkbox"/> MUNICIPAL</p> <p>7 <input type="checkbox"/> PUBLIC SUPPLY</p> <p>8 <input type="checkbox"/> COOLING OR AIR CONDITIONING</p> <p>9 <input type="checkbox"/> NOT USED</p>
<p>57</p> <p><b>METHOD OF DRILLING</b></p>	<p>1 <input type="checkbox"/> CABLE TOOL</p> <p>2 <input type="checkbox"/> ROTARY (CONVENTIONAL)</p> <p>3 <input type="checkbox"/> ROTARY (REVERSE)</p> <p>4 <input type="checkbox"/> ROTARY (AIR)</p> <p>5 <input checked="" type="checkbox"/> AIR PERCUSSION</p>	<p>6 <input type="checkbox"/> BORING</p> <p>7 <input type="checkbox"/> DIAMOND</p> <p>8 <input type="checkbox"/> JETTING</p> <p>9 <input type="checkbox"/> DRIVING</p>

LOCATION OF WELL

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

45 mile

240'

OLD CARP RD.

Hwy #17

SOUTH MARCH

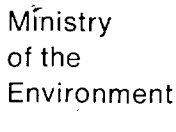
DRILLERS REMARKS

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER	
	Capital Water Supply Ltd.		1558	
	ADDRESS			
	Box 490 Stittsville, Ontario			
	NAME OF DRILLER OR BORER		LICENCE NUMBER	
	W. Kavanagh			
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
	[Signature]		DAY 5 MO. 10 YR. 77	

OFFICE USE ONLY	DATA SOURCE	1	CONTRACTOR	1558	59-62	DATE RECEIVED	Y 71177	63-68	8
	DATE OF INSPECTION	20/05/78		INSPECTOR	JS DN				
	REMARKS:	New Brown Buck Bungalow						P	WI







10.3

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

10	14
CON BLOCK TRACT SURVEY ETC	

LOT 25.11

## Manata

3

13

Manandrick View Carp, Ontario K0A 1L0

DATE COMPLETED	
----------------	--

42-52

DAY 19 MO 98 YR 92

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

OFFICE USE ONLY	DATA SOURCE	58 <b>1558</b>	59-62 <b>SEP 22 1992</b>	63-68 <b>63-68</b>	80 <b>80</b>
	DATE OF INSPECTION	INSPECTOR			
	REMARKS				





Mark correct box with a checkmark, where applicable.

# The Ontario Water Resources Act

## WATER WELL RECORD

Municipality **15006** Con. **CON** **03**

County or District <b>Ottawa Carleton</b>	Township/Borough/City/Town/Village <b>Kanata</b>	Con block tract survey, etc. <b>3</b>	Lot <b>13</b>
Owner's surname <b>Landark Construction</b>	First name	Address <b>Box 324 Stittsville, Ontario K2S 1A4</b>	Date completed <b>7 day 12 month 95 year</b>

[illegible]

41		14		15		21	
WATER RECORD							
Water found at – feet		Kind of water					
106	10-13	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	14		
	>	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
NOT TESTED	15-18	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	19		
	2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
	20-23	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	24		
	2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
	25-28	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	29		
	2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
	30-33	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	34		
	2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	.188	0	22.5
17-18	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic			26-29
5 7/8	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		22.5	120
24-25	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			27-30

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		30
						41-44
						feet

61	<b>PLUGGING &amp; SEALING RECORD</b>			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment		
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)		
From	To			
10-13	14-17			
<b>20.5</b>	<b>0</b>	<b>Grouted Cement (3)</b>		
18-21	22-25			
26-29	30-33			
		80		

PUMPING TEST	Pumping test method 1 <input checked="" type="checkbox"/> Pump    2 <input type="checkbox"/> Bailor		Pumping rate 25 <sup>15-14</sup> SPM		Duration of pumping 1 <sup>15-16</sup> Hours ..... Mins	
	Static level 19-21	Water level end of pumping 22-24	Water levels during 1 <input checked="" type="checkbox"/> Pumping    2 <input type="checkbox"/> Recovery			
			15 minutes 26-28	30 minutes 29-31	45 minutes 32-34	60 minutes 35-37
	1.5 feet	20 feet	115 feet	75 feet	50 feet	20 feet
	If flowing give rate 38-41 GPM		Pump intake set at feet		Water at end of test 42 <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		Recommended pump setting 43-45 30-50 feet		Recommended pump rate 46-48 5 GPM		

FINAL STATUS OF WELL		54	
1	<input checked="" type="checkbox"/> Water supply	5	<input type="checkbox"/> Abandoned, insufficient supply
2	<input type="checkbox"/> Observation well	6	<input type="checkbox"/> Abandoned, poor quality
3	<input type="checkbox"/> Test hole	7	<input type="checkbox"/> Abandoned (Other)
4	<input type="checkbox"/> Recharge well	8	<input type="checkbox"/> Dewatering
		9	<input type="checkbox"/> Unfinished
		10	<input type="checkbox"/> Replacement well

**WATER USE** 55-56

1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not used
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other .....
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

**METHOD OF CONSTRUCTION** *5/*

1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other .....
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

**LOCATION OF WELL**

In diagram below show distances of well from road and lot line.  
Indicate north by arrow. *2nd time Kanata*

Strathmar Woods


Old Hwy #17

Lot # 30

8' ↓  
★

monahan

167015

Name of Well Contractor	Well Contractor's Licence No.
<b>Capital Water Supply Ltd.</b>	<b>1558</b>
Address	
<b>P.O. Box 490 Stittsville, Ontario K2S 1A6</b>	
Name of Well Technician	Well Technician's Licence No.
<b>W. Kavanagh</b>	<b>T0095</b>
Signature of Technician/Contractor	Submission date
	day <b>8</b> mo <b>12</b> yr <b>95</b>

MINISTRY USE ONLY	Data source	58	Contact	59-62	Date received	63-68	69	
	1558		MAR 15 1996					
	Date of inspection		Inspector					
	Remarks							
	CSS.ES							



# The Ontario Water Resources Act WATER WELL RECORD

**Print only in spaces provided.**  
**Mark correct box with a checkmark, where applicable.**

11

1529027

Municipality 15006 Con. CON 03

County or District <b>Ottawa Carleton</b>		Township/Borough/City/Town/Village <b>Kanata</b>	Con block tract survey, etc. <b>3</b>	Lot <b>13</b>
Owner's surname <b>Racine Construction</b>	First name	Address <b>South Mountain, Ontario K0E 1W0</b>	Date completed <b>3 day 6 month 96<sup>ea</sup></b>	

[illegible]

11		14		15		21	
WATER RECORD							
Water found at – feet		Kind of water					
38	10-13	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	14		
		<input checked="" type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
			6	<input type="checkbox"/> Gas			
	15-18	NOT TESTED					
		<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	19		
		<input checked="" type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
			6	<input type="checkbox"/> Gas			
	20-25	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	24		
		<input checked="" type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
			6	<input type="checkbox"/> Gas			
	25-28	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	29		
		<input checked="" type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
			6	<input type="checkbox"/> Gas			
	30-33	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur	34		
		<input checked="" type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
			6	<input type="checkbox"/> Gas			

51 CASING AND OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	22
1/ 18	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		22	45
24 25	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			27-30

<b>SCREEN</b>	Sizes of opening (Slot No.)	31 33	Diameter	34 38	Length	39 40
			inches		feet	
	Material and type			Depth at top of screen	41 44	36
					feet	

61 PLUGGING & SEALING RECORD			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17	Grouted Cement (3)	
20	0		
18-21	22-25		
26-29	30-33	80	

PUMPING TEST	Pumping test method 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate 15 GPM		Duration of pumping 1 Hours 18 Mins	
	Static level	Water level end of pumping	Water levels during <input type="checkbox"/> Pumping <input type="checkbox"/> Recovery			
	19-21	22-24	15 minutes 25-28	30 minutes 29-31	45 minutes 32-34	60 minutes 35-37
	8 feet	25 feet	43 feet	40 feet	30 feet	25 feet
	If flowing give rate 38-41 GPM		Pump intake set at feet <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy		Water at end of test 42	
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		Recommended pump setting 43-45 30 feet		Recommended pump rate 46-49 5 GPM		

**FINAL STATUS OF WELL**

1 ☒ Water supply  
2 ☐ Observation well  
3 ☐ Test hole  
4 ☐ Recharge well

5 ☐ Abandoned, insufficient supply  
6 ☐ Abandoned, poor quality  
7 ☐ Abandoned (Other)  
8 ☐ Dewatering

9 ☐ Unfinished  
10 ☐ Replacement well

**WATER USE**

1 ☒ Domestic

2 ☐ Stock

3 ☐ Irrigation

4 ☐ Industrial

5 ☐ Commercial

6 ☐ Municipal

7 ☐ Public supply

8 ☐ Cooling & air conditioning

9 ☐ Not used

10 ☐ Other .....

### METHOD OF CONSTRUCTION

1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other .....
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

**LOCATION OF WELL**

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

managahan lane


39

23'6"

Lot #6

Strathmore Estates

167068

Name of Well Contractor	Well Contractor's Licence No.
<b>Capital Water Supply Ltd.</b>	<b>1558</b>
Address	
<b>P.O. Box 490 Stittsville, Ontario K2S 1A6</b>	
Name of Well Technician	Well Technician's Licence No.
<b>S. Miller</b>	<b>T0097</b>
Signature of Technician/Contractor	Submission date
	day <b>3</b> mo <b>6</b> yr <b>96</b>

MINISTRY USE ONLY	Data source	58	Contractor	59-62	Date received	63-68	69	
	1558		AUG 13 1996					
	Date of inspection	Inspector						
	Remarks							
	CSS.ES							



Print only in spaces provided.  
Mark correct box with a checkmark, where applicable.

11

**1530059**

Municipality 15006 Con. CON 03

County or District		Township/Borough/City/Town/Village		Con block tract survey, etc.		Lot	
Ottawa Carleton		Kanata		3		12	
Owner's surname		First name		Address		Date completed	
Gold Haven Construction Ltd.				168 Wescar Lane Carp, Ontario K0A 1L0		14 day 5 month 98 year	
Zone		Easting		Northing		RC	
10		12		14		16	
18		20		22		24	
26		28		30		32	
34		36		38		40	
42		44		46		48	
50		52		54		56	
58		60		62		64	
66		68		70		72	
74		76		78		80	
82		84		86		88	
90		92		94		96	
98		100		102		104	
106		108		110		112	
114		116		118		120	
122		124		126		128	
130		132		134		136	
138		140		142		144	
146		148		150		152	
154		156		158		160	
162		164		166		168	
170		172		174		176	
178		180		182		184	
186		188		190		192	
194		196		198		200	
202		204		206		208	
210		212		214		216	
218		220		222		224	
226		228		230		232	
234		236		238		240	
242		244		246		248	
250		252		254		256	
258		260		262		264	
266		268		270		272	
274		276		278		280	
282		284		286		288	
290		292		294		296	
298		300		302		304	
306		308		310		312	
314		316		318		320	
322		324		326		328	
330		332		334		336	
338		340		342		344	
346		348		350		352	
354		356		358		360	
362		364		366		368	
370		372		374		376	
378		380		382		384	
386		388		390		392	
394		396		398		400	
402		404		406		408	
410		412		414		416	
418		420		422		424	
426		428		430		432	
434		436		438		440	
442		444		446		448	
450		452		454		456	
458		460		462		464	
466		468		470		472	
474		476		478		480	
482		484		486		488	
490		492		494		496	
498		500		502		504	
506		508		510		512	
514		516		518		520	
522		524		526		528	
530		532		534		536	
538		540		542		544	
546		548		550		552	
554		556		558		560	
562		564		566		568	

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)**[illegible]

41		WATER RECORD	
Water found at - feet	Kind of water		
10-13	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
44	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
77	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
132	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
168	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	34
30-33	NOT TESTED		

51 CASING & OPEN HOLE RECORD					
Inside diam inches	Material	Wall thickness inches	Depth - feet		
			From	To	
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input checked="" type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	22.5	
5 15/16	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input checked="" type="checkbox"/> Plastic		22.5	75	
5 7/8	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input checked="" type="checkbox"/> Plastic		75	150	
5 1 1/2	1 <input checked="" type="checkbox"/> Steel 2 <input checked="" type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		150	175	

<b>SCREEN</b>	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
				inches	feet	
	Material and type			Depth at top of screen		30
				feet		

61		<b>PLUGGING &amp; SEALING RECORD</b>	
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17		
21	0		
18-21	22-25		
		Grouted Cement (3)	
26-29	30-33	80	

PUMPING TEST	Pumping test method <sup>10</sup> 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate <sup>16-4</sup> 20 GPM		Duration of pumping <sup>17-18</sup> 1 ..... Hours ..... Mins	
	Static level		Water level end of pumping		Water levels during 1 <input type="checkbox"/> Pumping 2 <input checked="" type="checkbox"/> Recovery	
	19-21	22-24	15 minutes <sup>26-28</sup>	30 minutes <sup>29-31</sup>	45 minutes <sup>32-34</sup>	60 minutes <sup>35-37</sup>
	37 feet	170 feet	39' 2" feet	37' 6" feet	37' 2" feet	37 feet
	If flowing give rate <sup>38-41</sup> GPM		Pump intake set at <sup>43-45</sup> feet		Water at end of test <sup>42</sup> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		Recommended pump setting 140 feet		Recommended pump rate 5 GPM		

FINAL STATUS OF WELL		54
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input checked="" type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

<b>WATER USE</b>			55-56
1	<input type="checkbox"/> Domestic	5	<input type="checkbox"/> Commercial
2	<input checked="" type="checkbox"/> Stock	6	<input type="checkbox"/> Municipal
3	<input type="checkbox"/> Irrigation	7	<input type="checkbox"/> Public supply
4	<input type="checkbox"/> Industrial	8	<input type="checkbox"/> Cooling & air conditioning
		9	<input type="checkbox"/> Not used
		10	<input type="checkbox"/> Other .....

**METHOD OF CONSTRUCTION** 57

1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input checked="" type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other .....
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

**LOCATION OF WELL**

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

Old Carp Rd

March Brook Cres

Lot #23

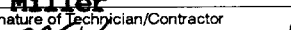
House # 10753

Indoor pool

12'6"

19'6"

183854

Name of Well Contractor	Well Contractor's Licence No.
<b>Capital Water Supply Ltd.</b> Address	<b>1558</b>
<b>P.O. Box 490 Stittsville, Ontario K2S 1A6</b> Name of Well Technician	<b>T0097</b> Well Technician's Licence No.
<b>S. Miller</b> Signature of Technician/Contractor 	<b>T0097</b> Submission date day <b>15</b> mo <b>5</b> yr <b>98</b>

MINISTRY USE ONLY	Data source	58	Contractor	59-62	Date received	63-68	80
			1558		JUL 22 1998		
	Date of inspection		Inspector				
	Remarks						
	CSS. S9						





# The Ontario Water Resources Act

## WATER WELL RECORD

Mark correct box with a checkmark, where applicable.

11

1530941

Municipality  
15006

Con.  
CON

County or District <b>Ottawa Carleton</b>	Township/Borough/City/Town/Village <b>Kanata</b>	Con block tract survey, etc. <b>3</b>	Lot <b>13</b>
Owner's surname <b>Gold Haven Construction</b>	First Name <b>P.O. Box 72059 Kanata, Ontario K2K 2P4</b>	Date completed <b>18 day 11 month 99</b>	

99

21 Zone Easting Northing RC Elevation RC Basin Code II III IV

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible][illegible]

WATER RECORD			
Water found at - feet	Kind of water		
1-13	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	14
15-18	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	19
20-23	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	24
25-28	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	29
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	34

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	.188	0	22.5
5 13/16	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic		22.5	90
5 1/2	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			

<b>SCREEN</b>	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		
				feet		

61		<b>PLUGGING &amp; SEALING RECORD</b>	
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17	Grouted - Cement (3)	
20	0		
19-21	22-25		
26-29	30-33	80	

PUMPING TEST	Pumping test method <sup>10</sup>		Pumping rate <sup>11-14</sup>		Duration of pumping <sup>17-18</sup>	
	1 <input checked="" type="checkbox"/> Pump	2 <input type="checkbox"/> Bailor	20 GPM		1 <sup>15-16</sup> Hours <sup>17-18</sup> 15 Minutes	
	Static level <sup>19-21</sup>	Water level end of pumping <sup>22-24</sup>	Water levels during 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery			
	10 feet	50 feet	15 minutes <sup>25-28</sup>	30 minutes <sup>29-31</sup>	45 minutes <sup>32-34</sup>	60 minutes <sup>35-37</sup>
	10 feet	50 feet	85 feet	75 feet	60 feet	50 feet
	If flowing give rate <sup>38-41</sup>		Pump intake set at		Water at end of test <sup>42</sup>	
	GPM		feet		<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	
	Recommended pump type		Recommended pump setting <sup>43-45</sup>		Recommended pump rate <sup>46-49</sup>	
	<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		75 feet		5 GPM	

<b>FINAL STATUS OF WELL</b>			54
1	<input checked="" type="checkbox"/> Water supply	5	<input type="checkbox"/> Abandoned, insufficient supply
2	<input type="checkbox"/> Observation well	6	<input type="checkbox"/> Abandoned, poor quality
3	<input type="checkbox"/> Test hole	7	<input type="checkbox"/> Abandoned (Other)
4	<input type="checkbox"/> Recharge well	8	<input type="checkbox"/> Dewatering
		9	<input type="checkbox"/> Unfinished
		10	<input type="checkbox"/> Replacement well

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<b>WATER USE</b>			55-56
1	<input checked="" type="checkbox"/> Domestic	5	<input type="checkbox"/> Commercial
2	<input type="checkbox"/> Stock	6	<input type="checkbox"/> Municipal
3	<input type="checkbox"/> Irrigation	7	<input type="checkbox"/> Public supply
4	<input type="checkbox"/> Industrial	8	<input type="checkbox"/> Cooling & air conditioning
		9	<input type="checkbox"/> Not use
		10	<input type="checkbox"/> Other .....

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<b>METHOD OF CONSTRUCTION</b>			57
1	<input type="checkbox"/> Cable tool	5	<input checked="" type="checkbox"/> Air percussion
2	<input type="checkbox"/> Rotary (conventional)	6	<input type="checkbox"/> Boring
3	<input type="checkbox"/> Rotary (reverse)	7	<input type="checkbox"/> Diamond
4	<input type="checkbox"/> Rotary (air)	8	<input type="checkbox"/> Jetting
		9	<input type="checkbox"/> Driving
		10	<input type="checkbox"/> Digging
		11	<input type="checkbox"/> Other .....

**LOCATION OF WELL**

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

*Panandrick View*

*lot #5*

*2nd line - Kanata*

50'

79'

208508

Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097
Signature of Technician/Contractor	Submission date
<i>S. Miller</i>	day 19 mo 11 yr 99

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	- 63-68	8
		1558		DEC 07 1999		
	Date of inspection	Inspector				
	Remarks					
	CSS.ES0					





# The Ontario Water Resources Act

## WATER WELL RECORD

Mark correct box with a checkmark, where applicable.

11

1532148

Municipality  
15096

Con. **CON** **DE**

County or District <b>Ottawa Carleton</b>	Township/Borough/City/Town/Village <b>Kanata</b>	Con block tract survey, etc. <b>3</b>	Lot <b>12</b>
Owner's surname <b>Gold Haven Construction</b>	First Name <b>Box 72059, Kanata ON. K2K 2P4</b>	Date completed <b>31 day 07 month 01 year</b>	

Figure 1 shows a schematic diagram of the data entry form for the 1990 Census of Agriculture. The form is organized into several sections, each with a corresponding input field and a scale or label. The sections are: Zone (with a scale from 1 to 2), Easting (with a scale from 10 to 17), Northing (with a scale from 18 to 24), RC (with a scale from 25 to 26), Elevation (with a scale from 27 to 28), RC (with a scale from 29 to 30), Basin Code (with a scale from 31 to 32), and a final section for ii, iii, and iv. The form is designed to be filled out by a user, with the input fields represented by boxes and the scales by horizontal lines with tick marks.

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)**[illegible]

31

32

41		10		14		15		21		
WATER RECORD										
Water found at - feet			Kind of water							
137			10-13		NOT TESTED				14	
			1		Fresh		4		<input type="checkbox"/> Sulphur	
			2		<input type="checkbox"/> Salty		6		<input type="checkbox"/> Minerals	
									<input type="checkbox"/> Gas	
			15-18		1		<input type="checkbox"/> Fresh		3	
					2		<input type="checkbox"/> Salty		4	
									<input type="checkbox"/> Sulphur	
									<input type="checkbox"/> Minerals	
									<input type="checkbox"/> Gas	
			20-23		1		<input type="checkbox"/> Fresh		3	
					2		<input type="checkbox"/> Salty		4	
									<input type="checkbox"/> Sulphur	
									<input type="checkbox"/> Minerals	
									<input type="checkbox"/> Gas	
			25-28		1		<input type="checkbox"/> Fresh		3	
					2		<input type="checkbox"/> Salty		4	
									<input type="checkbox"/> Sulphur	
									<input type="checkbox"/> Minerals	
									<input type="checkbox"/> Gas	
			30-33		1		<input type="checkbox"/> Fresh		3	
					2		<input type="checkbox"/> Salty		4	
									<input type="checkbox"/> Sulphur	
									<input type="checkbox"/> Minerals	
									<input type="checkbox"/> Gas	

51		32		43		CASING & OPEN HOLE RECORD	
Inside diam inches	Material	Wall thickness inches	Depth - feet				
			From	To			
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	21	13-16		
17-18	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic				20-23		
24-25	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		21	150	27-30		

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		
				41-44		30
				feet		

61				<b>PLUGGING &amp; SEALING RECORD</b>			
<input checked="" type="checkbox"/> Annular space				<input type="checkbox"/> Abandonment			
Depth set at - feet			Material and type (Cement grout, bentonite, etc.)				
From		To					
10-13 21		14-17 0	Grouted cement (2)				
18-21		22-25					
26-29		30-33	80				

PUMPING TEST	Pumping test method <sup>10</sup> 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate <sup>11-14</sup> <b>25</b> GPM		Duration of pumping <sup>15-16</sup> <b>1</b> Hours <sup>17-18</sup> <b>18</b> Mins	
	Static level		Water level end of pumping <sup>25</sup>		Water levels during 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery	
	19-21 <b>34' 6"</b> feet		22-24 <b>65</b> feet		25 15 minutes <sup>26-28</sup> <b>145</b> feet	
			30 minutes <sup>29-31</sup> <b>100</b> feet		45 minutes <sup>32-34</sup> <b>75</b> feet	
					60 minutes <sup>35-37</sup> <b>65</b> feet	
	If flowing give rate <sup>38-41</sup> GPM		Pump intake set at feet		Water at end of test <sup>42</sup> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy	
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		Recommended pump setting <sup>43-45</sup> <b>100</b> feet		Recommended pump rate <sup>46-49</sup> <b>5</b> GPM		

<b>FINAL STATUS OF WELL</b>			54
1	<input checked="" type="checkbox"/> Water supply	5	<input type="checkbox"/> Abandoned, insufficient supply
2	<input type="checkbox"/> Observation well	6	<input type="checkbox"/> Abandoned, poor quality
3	<input type="checkbox"/> Test hole	7	<input type="checkbox"/> Abandoned (Other)
4	<input type="checkbox"/> Recharge well	8	<input type="checkbox"/> Dewatering
9	<input type="checkbox"/> Unfinished		
10	<input type="checkbox"/> Replacement well		

---

<b>WATER USE</b>			55-56
1	<input checked="" type="checkbox"/> Domestic	5	<input type="checkbox"/> Commercial
2	<input type="checkbox"/> Stock	6	<input type="checkbox"/> Municipal
3	<input type="checkbox"/> Irrigation	7	<input type="checkbox"/> Public supply
4	<input type="checkbox"/> Industrial	8	<input type="checkbox"/> Cooling & air conditioning
9	<input type="checkbox"/> Not use		
10	<input type="checkbox"/> Other .....		

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<b>METHOD OF CONSTRUCTION</b>			57
1	<input type="checkbox"/> Cable tool	5	<input checked="" type="checkbox"/> Air percussion
2	<input type="checkbox"/> Rotary (conventional)	6	<input type="checkbox"/> Boring
3	<input type="checkbox"/> Rotary (reverse)	7	<input type="checkbox"/> Diamond
4	<input type="checkbox"/> Rotary (air)	8	<input type="checkbox"/> Jetting
9	<input type="checkbox"/> Driving		
10	<input type="checkbox"/> Digging		
11	<input type="checkbox"/> Other .....		

**LOCATION OF WELL**

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

Old Carp Rd


March Brook Circle

Lot # 33

12'

12'

230184

Name of Well Contractor	Well Contractor's Licence No.
<b>Capital Water Supply Ltd.</b>	<b>1558</b>
Address	
<b>Box 490, Stittsville, On. K2S 1A6</b>	
Name of Well Technician	Well Technician's Licence No.
<b>S. Miller</b>	<b>T0097</b>
Signature of Technician/Contractor	Submission date
	day <b>31</b> mo <b>7</b> yr <b>01</b>

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68	80
		1558		AUG 21 2001		
	Date of inspection	Inspector				
	Remarks					
	OSS.ES1					

## 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 1/10<sup>th</sup> of a metre.**  
 • Please print clearly in blue or black ink only.

## Ministry Use Only

Address of Well Location (County/District/Municipality)				Township		Lot	Concession
Ottawa Carleton				Kanata		12	3
RR#/Street Number/Name				City/Town/Village		Site/Compartment/Block/Tract etc.	
14 Marchbrook Circle				Kanata		Subst 7, Pbn 4m-723	
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation:	<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Differentiated, specify
	83	18	425871	5023331	Macellan		<input checked="" type="checkbox"/> Averaged

Log of Overburden and Bedrock Materials (see instructions)	00	1A	2A	3B	71	55	55	55
--	----	----	----	----	----	----	----	----

[illegible]

Hole Diameter			Construction Record					Test of Well Yield				
Depth	Metres	Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth		Pumping test method	Draw Down		Recovery	
From	To	Centimetres				From	To		Time min	Water Level Metres	Time min	Water Level Metres
0	21.3	15.24						Subpump				
			Casing					Pump intake set at - (metres)	Static Level	4.71		12.29
			15.88	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	.48	0	7.3	Pumping rate - (litres/min)	1	7.20	1	7.53
				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Duration of pumping hrs + min	2	8.27	2	6.24
				<input type="checkbox"/> Galvanized								
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Final water level end of pumping	3	8.95	3	6.05
				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Recommended pump type.	4	9.04	4	5.99
				<input type="checkbox"/> Galvanized				<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	5	9.80	5	5.92
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Recommended pump rate.	10	10.77	10	5.77
				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Screen	15	11.29	15	5.65
				<input type="checkbox"/> Galvanized					Slot No.	20	11.55	20
			No Casing or Screen					If flowing give rate - (litres/min)	25	11.84	25	5.49
				<input checked="" type="checkbox"/> Open hole				If pumping discontin- ued, give reason.	30	11.95	30	5.44
								40	12.0	40	5.35	
								50	12.20	50	5.25	
								60	12.29	60	5.10	

		Plugging and Sealing Record		<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From	To				
6.7	0	Cement Slurry	0.2043		

		Method of Construction		
<input type="checkbox"/> Cable Tool		<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)		<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)		<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

Water Use				
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other	
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used		
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning		

Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other) _____
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information			
Name of Well Contractor		Well Contractor's Licence No.	
A. Rod Drilling Ltd		1119	
Business Address (street name, number, city/etc.)			
211 Richmond, Ont			
Name of Well Technician (last name, first name)		Well Technician's Licence No.	
Shannon		72122	
Signature of Technician/Contractor		Date Submitted YYYY MM DP	
X [Signature]		2004 07 16	

**Location of Well**

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

17

Old Camp Rd  
14 km  
Marchboone Circle  
190

Audit No. <b>Z 14551</b>	Date Well Completed <b>2004</b> <small>YYYY</small> <b>06</b> <small>MM</small> <b>17</b> <small>DD</small>
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered <b>2004</b> <small>YYYY</small> <b>06</b> <small>MM</small> <b>28</b> <small>DD</small>

Ministry Use Only					
Data Source			Contractor <b>1119</b>		
Date Received	YYYY	MM	DD	Date of Inspection	YYYY MM DD
<b>JUL 21 2004</b>					
Remarks			Well Record Number		
			<b>1534795</b>		



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- 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 1/10<sup>th</sup> of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

MUN CON LOT

Ottawa Carleton

RR#/Street Number/Name

927 March Road

GPS Reading

NAD

Zone

Easting

Northing

8.3

18

42 63 76

50 233 79

Kanata

City/Town/Village

Kanata

Unit Make/Model

Garmin

Mode of Operation:

Undifferentiated

Averaged

Differentiated, specify

3

11

Site/Compartment/Block/Tract etc.

Log of Overburden and Bedrock Materials (see instructions)

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

<b>Hole Diameter</b> <table><tr><th>Depth From</th><th>Metres To</th><th>Diameter Centimetres</th></tr><tr><td>0</td><td>9.75</td><td>22.75</td></tr><tr><td>9.75</td><td>22.24</td><td>15.55</td></tr></table>	Depth From	Metres To	Diameter Centimetres	0	9.75	22.75	9.75	22.24	15.55	<b>Construction Record</b> <table><tr><th>Inside diam centimetres</th><th>Material</th><th>Wall thickness centimetres</th><th>Depth From</th><th>Metres To</th></tr><tr><td>15.86</td><td><input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized</td><td>.48</td><td>+ .45</td><td>9.75</td></tr></table>	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	+ .45	9.75	<b>Test of Well Yield</b> <table><tr><th>Pumping test method</th><th>Draw Down</th><th>Recovery</th></tr><tr><td>submersible</td><td>Time min Water Level Metres</td><td>Time min Water Level Metres</td></tr><tr><td>Pump intake set at - (metres) 19.81</td><td>Static Level 3.60</td><td></td></tr><tr><td>Pumping rate - (litres/min) 54.6</td><td>1 3.73</td><td>1 4.90</td></tr><tr><td>Duration of pumping 3 hrs + 30 min</td><td>2 3.81</td><td>2 4.85</td></tr><tr><td>Final water level end of pumping 5.05 metres</td><td>3 3.81</td><td>3 4.82</td></tr><tr><td>Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep</td><td>4 3.85</td><td>4 4.78</td></tr><tr><td>Recommended pump depth 15.23 metres</td><td>5 3.87</td><td>5 4.75</td></tr><tr><td>Recommended pump rate 45.5 (litres/min)</td><td>10 4.03</td><td>10 4.61</td></tr><tr><td>If flowing give rate - (litres/min)</td><td>15 4.13</td><td>15 4.52</td></tr><tr><td></td><td>20 4.22</td><td>20 4.45</td></tr><tr><td></td><td>25 4.30</td><td>25 4.37</td></tr><tr><td>If pumping discontinued, give reason.</td><td>30 4.36</td><td>30 4.31</td></tr><tr><td></td><td>40 4.47</td><td>40 4.22</td></tr><tr><td></td><td>50 4.57</td><td>50 4.15</td></tr><tr><td></td><td>60 4.64</td><td>60 4.08</td></tr></table>	Pumping test method	Draw Down	Recovery	submersible	Time min Water Level Metres	Time min Water Level Metres	Pump intake set at - (metres) 19.81	Static Level 3.60		Pumping rate - (litres/min) 54.6	1 3.73	1 4.90	Duration of pumping 3 hrs + 30 min	2 3.81	2 4.85	Final water level end of pumping 5.05 metres	3 3.81	3 4.82	Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4 3.85	4 4.78	Recommended pump depth 15.23 metres	5 3.87	5 4.75	Recommended pump rate 45.5 (litres/min)	10 4.03	10 4.61	If flowing give rate - (litres/min)	15 4.13	15 4.52		20 4.22	20 4.45		25 4.30	25 4.37	If pumping discontinued, give reason.	30 4.36	30 4.31		40 4.47	40 4.22		50 4.57	50 4.15		60 4.64	60 4.08
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	60 4.64	60 4.08																																																																			
<b>Water Record</b> <table><tr><th>Water found at Metres</th><th>Kind of Water</th></tr><tr><td>14.02</td><td><input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals</td></tr><tr><td>19.81</td><td><input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals</td></tr><tr><td>21.94</td><td><input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals</td></tr><tr><td>not tested</td><td></td></tr></table>	Water found at Metres	Kind of Water	14.02	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	19.81	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	21.94	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	not tested		<b>Screen</b> <table><tr><th>Outside diam</th><th>Material</th><th>Slot No.</th></tr><tr><td></td><td><input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized</td><td></td></tr></table>	Outside diam	Material	Slot No.		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized		<b>No Casing or Screen</b> <table><tr><th>Depth From</th><th>Metres To</th></tr><tr><td>15.55</td><td>22.24</td></tr></table>	Depth From	Metres To	15.55	22.24																																															
Water found at Metres	Kind of Water																																																																				
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 • 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 1/10<sup>th</sup> of a metre.**  
 • Please print clearly in blue or black ink only.
- |  |                          |
|--|--------------------------|
|  | <b>Ministry Use Only</b> |
|--|--------------------------|

### Well Owner's Information and Location of Well Information

[illegible]

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: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify	

## Log of Overburden and Bedrock Materials (see instructions)

[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres

Water Record	
Water found at Metres	Kind of Water
<input type="text"/> m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____
<input type="text"/> m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____
<input type="text"/> m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____

After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____	Chlorinated <input type="checkbox"/> Yes <input type="checkbox"/> No
--	--

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	Metres
			From	To
<b>Casing</b>				
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
<b>No Casing or Screen</b>				
	<input type="checkbox"/> Open hole			


Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	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. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. _____ metres	5		5	
Recommended pump rate. (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontin- ued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record				<input type="checkbox"/> Annular space	<input checked="" type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From	To				
6.09	0	Grouted Bentonite Slurry	2inch hole		

Method of Construction			
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

Water Use			
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	

Final Status of Well			
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input checked="" type="checkbox"/> Abandoned, (Other) _____
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	_____
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	_____

Well Contractor/Technician Information		
Name of Well Contractor	Well Contractor's Licence No.	
<b>Capital Water Supply Ltd.</b>	<b>1558</b>	
Business Address (street name, number, city etc.)		
<b>box 490 Stittsville Ontario K2S 1A6</b>		
Name of Well Technician (last name, first name)	Well Technician's Licence No.	
<b>Miller Stephen</b>	<b>T0097</b>	
Signature of Technician/Contractor	Date Submitted	
	<div> <div>YYYY</div> <div>MM</div> <div>DD</div> </div> <div> <b>2006</b> <b>7</b> <b>20</b> </div>	

**Location of Well**

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

Diagram illustrating the location of a well relative to a road, lot line, and building. The road is labeled "Main Rd". The well is marked with an "x". Distances are indicated by dashed lines. North is indicated by an arrow pointing right.

Audit No.	<b>z 47023</b>	Date Well Completed	YYYY	MM	DD
			<b>2006</b>	<b>7</b>	<b>20</b>
Was the well owner's information package delivered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered	YYYY	MM	DD

Ministry Use Only							
Data Source		Contractor <b>1558</b>					
Date Received	YYYY	MM	DD	Date of Inspection	YYYY	MM	DD
<b>AUG 25 2006</b>							
Remarks		Well Record Number					

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

### Well Owner's Information and Location of Well Information

[illegible]

<b>Ottawa Carleton</b>					<b>Kanata</b>		<b>11</b>		<b>4</b>		
RR#/Street Number/Name <b>941 March Rd.</b>					City/Town/Village <b>Kanata</b>		Site/Compartment/Block/Tract etc.				
GPS Reading		NAD <b>83</b>	Zone <b>18</b>	Easting <b>426390</b>	Northing <b>5023443</b>	Unit Make/Model <b>Garmin</b>		Mode of Operation: <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Differentiated, specify _____ <input checked="" type="checkbox"/> Averaged			

	0.0	25	720336	3023443
<b>Log of Overburden and Bedrock Materials (see instructions)</b>				

General Colour	Most common material	Other Materials	General Description	Depth	Metres
				From	To
<b>Brown</b>	<b>Clay</b>		<b>Packed</b>	<b>0</b>	<b>2.74</b>
<b>grey</b>	<b>limestone</b>		<b>Hard</b>	<b>2.74</b>	<b>11.58</b>
<b>grey&amp;white</b>	<b>sandstone</b>			<b>11.58</b>	<b>22.24</b>


Hole Diameter			Construction Record				Test of Well Yield					
Depth	Metres	Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth		Pumping test method	Draw Down		Recovery	
From	To	Centimetres				From	To		Time min	Water Level Metres	Time min	Water Level Metres
0	6.40	22.75						<b>Submersible</b>				
6.40	22.24	15.23						Pump intake set at - (metres) <b>18.28</b>	Static Level			
								Pumping rate - (litres/min) <b>50.05</b>	1	<b>5.83</b>	1	<b>5.46</b>
								Duration of pumping <b>1</b> hrs + <b>00</b> min	2	<b>6.08</b>	2	<b>5.41</b>
								Final water level end of pumping <b>7.01</b> metres	3	<b>6.21</b>	3	<b>5.39</b>
								Recommended pump type.	4	<b>6.30</b>	4	<b>5.36</b>
								<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep				
								Recommended pump depth <b>15.23</b> metres	5	<b>6.35</b>	5	<b>5.34</b>
								Recommended pump rate. <b>45.5</b> (litres/min)	10	<b>6.50</b>	10	<b>5.23</b>
								If flowing give rate - (litres/min)	15	<b>6.62</b>	15	<b>5.16</b>
									20	<b>6.69</b>	20	<b>5.14</b>
									25	<b>6.76</b>	25	<b>5.12</b>
								If pumping discontinued, give reason.	30	<b>6.79</b>	30	<b>5.10</b>
									40	<b>6.88</b>	40	<b>5.07</b>
									50	<b>6.94</b>	50	<b>5.04</b>
									60	<b>7.01</b>	60	<b>5.02</b>

Plugging and Sealing Record				<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From	To				
6.40	0	Grouted Bentonite Slurry	.21m3		

Method of Construction			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

Water Use			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	

Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> 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		Date Submitted	
		YYYY MM DD 2006 7 18	

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

A hand-drawn map showing a property on March Rd. The road is represented by a horizontal line at the bottom. A vertical dashed line runs from the road to the top of the page. To the right of this dashed line, there is a rectangular area representing a property. Above the rectangle is the number "#941". To the right of the rectangle, there is a circled "E" and the word "pitless".

Audit No. <b>z 47021</b>	Date Well Completed YYYY <b>2006</b> MM <b>7</b> DD <b>18</b>
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered YYYY <b>2006</b> MM <b>7</b> DD <b>18</b>

Ministry Use Only			
Data Source	Contractor <b>1558</b>		
Date Received <small>YYYY MM DD</small> <b>AUG 25 2006</b>	Date of Inspection <small>YYYY MM DD</small>		
Remarks	Well Record Number		

Measurements recorded in: ☐ Metric ☒ Imperial

**Well Owner's Information**

*1370 Nadia Lane*  
County/District/Municipality *Ottawa/Carleton*  
City/Town/Village *March* Province *Ontario* Postal Code *K2K2B9*  
UTM Coordinates Zone Easting Northing *18 425307 5023612* Municipal Plan and Sublot Number *Kanata*  
NAD *83* Other *13 2*

**Overburden and Bedrock Materials/Abandonment Sealing Record** (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	<i>Clay / gravel</i>			<i>0' 7'</i>
<i>black</i>	<i>Limestone</i>			<i>7' 47'</i>
<i>grey</i>	<i>Sandstone</i>			<i>47' 95'</i>
<i>grey/white</i>	<i>Sandstone</i>			<i>95' 110'</i>
<i>grey</i>	<i>sandstone (grey clay)</i>			<i>110' 115'</i>

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
From To			
<i>0' 22'</i>	<i>2 Bags cement</i>	<i>0.044</i>	
	<i>2 Bags quick grout</i>	<i>0.044</i>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From To	
<i>15.24cm</i>		<i>.48cm</i>	<i>0' 22'</i>	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From To
<i>6"</i>	<i>steel</i>		<i>0' 22'</i>

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
		From To	
<i>110' (m/ft)</i>		<i>0' 22'</i>	<i>25.4cm</i>
<i>113' (m/ft)</i>			

**Well Contractor and Well Technician Information**

Business Name of Well Contractor *WILF HALL & SONS WELL DRILLING* Well Contractor's Licence No. *25 5 8*  
 Business Address (Street Number/Name) *RR1 260 Hall Shore Rd. McDonald's Corners* Municipality *Kanata*  
 Province *Ont* Postal Code *K0G1M0* Business E-mail Address *wilfhall1td@bellnet.ca*  
 Bus. Telephone No. (inc. area code) *613 278 2933* Name of Well Technician (Last Name, First Name) *Hall Mark*  
 Well Technician's Licence No. *T22 28* Signature of Technician and/or Contractor *Mark Hall* Date Submitted *20080930*

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
<input type="checkbox"/> Clear and sand free <input checked="" type="checkbox"/> Other, specify <i>cloudy</i>		Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	
Pump intake set at (m/ft) <i>100'</i>		1	<i>9.90'</i>
Pumping rate (l/min / GPM) <i>19 gpm</i>		2	<i>12.48'</i>
Duration of pumping <i>1</i> hrs + <i>19</i> min		3	<i>13.88'</i>
Final water level end of pumping (m/ft) <i>5.60'</i>		4	<i>14.83'</i>
If flowing give rate (l/min / GPM) <i>60 gpm</i>		5	<i>15.52'</i>
Recommended pump depth (m/ft) <i>100'</i>		10	<i>17.32'</i>
Recommended pump rate (l/min / GPM) <i>19 gpm</i>		15	<i>18.10'</i>
Well production (l/min / GPM) <i>60 gpm</i>		20	<i>18.65'</i>
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	<i>18.87'</i>
		30	<i>19.20'</i>
		40	<i>19.60'</i>
		50	<i>19.91'</i>
		60	<i>20.24'</i>

**Map of Well Location**

Please provide a map below following instructions on the back.

*Nadia Lane*  
*1370*

*90' from house*

Comments:

Well owner's information package delivered ☒ Yes ☐ No

Date Package Delivered *20080930*

Date Work Completed *20080930*

**Ministry Use Only**

Audit No. *81216*

Received *OCT 15 2008*





Ministry of  
the Environment

W

Tag#: A135310

Print Below)

A135310

Well Record

Regulation 903 Ontario Water Resources Act

Page \_\_\_\_\_ of \_\_\_\_\_

Measurements recorded in: ☐ Metric ☒ Imperial

Address of Well Location (Street Number/Name) 16 Marchbrook Circle		Township (West Carleton) MARCH		Lot 12	Concession 3
County/District/Municipality Ottawa-Carleton		City/Town/Village Kanata		Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 18	Easting 125775	Northing 5623335	Municipal Plan and Sublot Number 4M-723	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)					
General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Back Fill			0'	4'
Grey	Limestone			4'	37'
Grey & White	Sandstone			37'	79'
Grey & White	Sandstone			79'	93'
Grey & White	Sandstone			93'	100'

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
20'	0'	Neat cement

Volume Placed (m³/ft³)	
12.5	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
6 1/4"	Steel	189"	+2' 20'	
6"	Open Hole		20' 100'	

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To

Water Details		Hole Diameter	
Water found at Depth 79 (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth 93 (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	0' 20'	9 3/4"
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	20' 100'	6"

Well Contractor and Well Technician Information	
Business Name of Well Contractor Air Rock Drilling Co. Ltd.	Well Contractor's Licence No. 1119
Business Address (Street Number/Name) 6555 Franktown Road, RR#1	Municipality Richmond
Province ON	Postal Code K9A 2Z0
Business E-mail Address air-rock@sympatico.ca	

Bus. Telephone No. (inc. area code) 613-838-1701	Name of Well Technician (Last Name, First Name) HANNA JEREMY
Well Technician's Licence No. T 3632	Signature of Technician and/or Contractor [Signature]
	Date Submitted 2013 08 30

Results of Well Yield Testing			
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify Not tested	Draw Down Time (min) Water Level (m/ft)	Recovery Time (min) Water Level (m/ft)	
If pumping discontinued, give reason: X	Static Level 18.8	56.8	
Pump intake set at (m/ft) 80'	1 28.6	1 35.3	
Pumping rate (l/min / GPM) 20	2 34.2	2 35.4	
Duration of pumping 1 hrs + 0 min	3 38.2	3 18.8	
Final water level end of pumping (m/ft) 56' 8"	4 41.4	4 18.8	
If flowing give rate (l/min / GPM) X	5 45.4	5	
Recommended pump depth (m/ft) 90'	10 51.4	10	
Recommended pump rate (l/min / GPM) 20	15 52.5	15	
Well production (l/min / GPM) 20	20 53.	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	25 53.5	25	
	30 54.	30	
	40 55.2	40	
	50 56	50	
	60 56.8	60	

Map of Well Location
Please provide a map below following instructions on the back.

Comments: 1/2 HP - 10 GPM SET @ 90 FT
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Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2013 09 03	Date Work Completed 2013 08 29
Ministry Use Only		
Audit No. 2155210		
Received NOV 12 2013		

# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

Geotechnical  
Engineering

Environmental  
Engineering

Hydrogeology

Geological  
Engineering

Materials Testing

Building Science

Archaeological  
Services

## POSITION

Junior Environmental Engineer

## EDUCATION

University of Guelph, B.Eng., 2019  
Environmental Engineering

## EXPERIENCE

*2019 – Present*

**Paterson Group Inc.**

Consulting Engineers

Geotechnical and Environmental Division

Junior Environmental Engineer

*2018*

**Health Canada FNIHB**

Proposal and Final Design Review

Student Engineer

## SELECT LIST OF PROJECTS

Phase I and II – ESA Reports – Various Sites - Ottawa  
Large Scale Remediation Program – Caivan Residential Development  
National Capital Region (CSA Z768-01 & MECP)  
Remediation Programs – Various Sites - Ottawa  
Designated Substance Surveys – Various Sites – Ottawa  
Geotechnical Investigations – Various Sites  
Subgrade Reviews – Various Sites – Ottawa  
Density Testing – Residential and Commercial Sites – Ottawa  
Bearing Surface Investigations – Various Sites - Ottawa



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