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## Phase I - Environmental Site Assessment

910 March Road  
Ottawa, Ontario

Prepared For

Wexcom Developments (March Rd.) Ltd.

### 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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## **EXECUTIVE SUMMARY**

### **Assessment**

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

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

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

Following the historical research, a site visit was conducted. The subject land is occupied by multiple structures consisting of storage barns, maintenance and tool storage sheds, a single-storey cabin and a two-storey residential structure with a basement level. The current property owner was present at the time of the assessment and indicated that a former underground storage tank (UST) was situated on the south side of the residence. The former UST represents is a PCA that represents an area of potential environmental concern (APEC) on the Phase I Property.

Additionally, three (3) empty aboveground storage tanks (ASTs) were noted in the interior of the northeastern storage shed, as well as an AST along the exterior west wall of another storage shed, located between the residence and the northwestern shed. The ASTs on-site were considered PCAs that represent APECs on the Phase I Property.

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

Based on the results of the Phase I ESA, **it is our opinion that a Phase II Environmental Site Assessment is required for the subject property.**

## **Recommendations**

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

## **1.0 INTRODUCTION**

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

Paterson was engaged to conduct this Phase I ESA at the request of Mr. Michael Foley of Wexcom Developments. Mr. Foley can be reached by telephone at 905-385-4514.

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

## 2.0 PHASE I PROPERTY INFORMATION

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

### Site Description:

Configuration:	Irregular
Site Area:	2.72 ha (approximate)
Zoning:	DR – Development Reserve Zone designated on the southern portion of the site.

RU – Rural Zone designated on the northern portion of the site of which Shirley's Brook and its tributary transects the north-eastern and northern portions of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary.

Current Use:	The subject site is currently an uninhabited farmstead.
Services:	The Phase I Property has private services (potable wells and septic system) and will be provided with municipal services upon redevelopment.

### **3.0 SCOPE OF INVESTIGATION**

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

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

## **4.0 RECORDS REVIEW**

### **4.1 General**

#### **Phase I ESA Study Area Determination**

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

#### **First Developed Use Determination**

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

#### **National Archives**

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

#### **Chain of Title**

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

#### **Plan of Subdivision**

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

#### **Previous Engineering Reports**

Paterson has conducted environmental assessments for a neighbouring property to the north and the reconstruction of March Road in 2018. Based on a review of our files, no potential environmental concerns were identified within the 250m search radius with respect to the Phase I Property.

A Designated Substance Survey (DSS) was conducted at the subject site by Paterson in October 2019. Based on the report, asbestos-containing materials (ACMs) were identified in the residential structure.



It was recommend that prior to demolition all ACMs be removed according to the O.Reg 490/09 under the Occupational Health and Safety Act.

Paterson conducted a Geotechnical Investigation on the subject land, concurrently with the environmental investigation. Nine (9) boreholes were drilled on-site. The subsurface profile generally consisted of a layer topsoil underlain by a hard to stiff brown silty clay, which in turn, overlaid compact to dense glacial till and/or inferred bedrock. Practical auger refusal was encountered at all test hole locations at depths varying between 1.9 to 4.7 m below existing ground surface on inferred bedrock. No contamination or deleterious material was encountered during the subsurface investigation.

## **4.2 Environmental Source Information**

### **Environment Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on October 2, 2019. The Phase I Property and properties within the Phase I Study Area were not listed in the NPRI database.

### **PCB Inventory**

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

### **Areas of Natural Significance**

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

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

A 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 Phase I Property. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

### **MECP Submissions**

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the Phase I Property. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

### **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 Phase I Property. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

### **MECP Waste Management Records**

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records for the subject site. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

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

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

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

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

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

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

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

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on October 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the Phase I ESA Property and neighbouring properties. Based on the TSSA response, no records are listed in the TSSA registry for the Phase I ESA Property or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

### **City of Ottawa Landfill Document**

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

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

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was sent to the City of Ottawa in October of 2019. At the time this report was issued, a response had not been received. Any pertinent information will be forwarded to the client upon receipt. A copy of the HLUI authorization 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, commencing with the earliest available photograph. Based on the review, the following observations have been made:

- |      |   |
|------|---|
| 1934 | The subject site is occupied by a farmstead. Surrounding lands are occupied by agricultural land with some farmsteads/residences. |
| 1945 | The subject site and surrounding lands remain unchanged from the previous photograph.   |

- 1955 No significant changes are apparent on the subject site or neighbouring lands.
- 1976 A residential dwelling (red roof) and barn-like structure can be seen in this photograph. No significant changes are apparent on the subject site and surrounding lands.
- 1989 Several structures appear to be occupying the subject site at this time. No apparent changes have been made to neighbouring lands.
- 1991 One of the barn-like structures situated on the central part of the site is no longer present. Some ground disturbance is visible at this time. New roadways can be seen to the east of Old Carp Road (Marchbrook Circle) and March Road (Klondike Road) at this time.
- 2002 The subject site remains unchanged from the previous photograph. Residences are present to the west and preparation of a new development is noted to the southwest. Lands to the north and east remain unchanged.
- 2011 (City of Ottawa Website) No apparent changes are apparent on the subject site. A new residential and commercial development is present to the east and south, as well as a stormwater management pond. Maxwell Bridge Drive is present at this time.
- 2017 (City of Ottawa Website) No significant changes are apparent on the subject site or surrounding lands.

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

### **Topographic Maps**

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

### **Physiographic Maps**

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

## **Geological Maps**

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

## **Water Well Records**

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

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

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

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

## **5.0 PERSONAL INTERVIEWS**

Mr. Jim Maxwell, the current property owner was interviewed at the time of the site visit. Mr. Maxwell indicated that the Maxwell family has owned and operated the farm (cattle farm) for more than 100 years, which ceased operations in 2004. According to Mr. Maxwell, the residential dwelling was previously on fuel oil with an underground storage tank (UST) situated beside the exterior south wall of the

residence. The UST as well the oil-fired furnace was removed circa 1980. A wood burning stove and a propane fired furnace was used in replacement of the oil-fired furnace, which was later converted to natural gas in the early 2000s.

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

## **6.0 SITE RECONNAISSANCE**

### **6.1 General Requirements**

A site visit was conducted by Mr. Mark St. Pierre, from the Environmental Department of Paterson Group on October 3, 2019. Weather conditions were overcast with a temperature of approximately 8°C. In addition to the Phase I Property, the uses of neighbouring properties within the Phase I Study Area was also assessed at the time of the site visit.

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

#### **Buildings and Structures**

The Phase I Property is occupied by seven (7) structures that include a residential dwelling and private shed, a small vacant cabin, and four (4) barn-like structures.

The residential dwelling is a 2-storey home with a basement level constructed with a stone and mortar foundation. The exterior is finished in stone and with a sloped red metal roof. An add-on front entrance structure was finished in vinyl siding. The residence is believed to have been built in the late 1890s. The cabin like structure is a single-storey slab-on-grade structure finished in wood siding with a sloped shingle roof. The cabin was constructed circa 1970s.

The northeastern and southern most barns are wood pier style barns, while the remaining are slab-on-grade barns finished in metal siding and metal roofs. The barns were constructed sometime between the late 1970s and 1980s.

A depiction of the subject site is presented on Drawing PE4760-1 – Site Plan, in the Figures section of this report.

## **Subsurface Utilities and Structures**

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

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

## **Site Features**

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

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

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

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

An exterior drainage pipe was noted on the east side of the residence. The pipe drains groundwater from the interior sump pit. No signs of water, odour or stressed vegetation was noted at the time of the site visit.

An empty above ground storage tank (AST) was noted on the exterior south side of the barn, east of the residence, at the time of the site visit. No evidence of surficial staining or stressed vegetation was observed around or beneath the AST at the time of the site visit.

No hazardous materials or evidence of surficial staining were observed on the Phase I Property at the time of the site visits.

### **Interior Assessment**

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

- Floor materials consist of a combination of vinyl tiles, linoleum and poured concrete and gravel (basement).
- Wall materials consist of lathe and plaster, drywall and stone and mortar walls (basement).
- Ceiling materials consist of plaster and unfinished wood beams (basement).
- Lighting is provided by incandescent fixtures.

A designated substance survey (DSS) was recently conducted at the subject building. Reference should be made to the report for more details.

The dwelling is currently heated with natural gas-fired equipment, prior to which, fuel-oil was used. An above ground copper line that was partially parged over was observed in the basement. No evidence of surficial staining or odour was noted at the time of the visit. One sump pit was noted in the basement. No water or odour was noted at the time of the visit.

Three (3) empty ASTs were noted in the interior of the northeastern most barn at the time of the site visit. No evidence of surficial staining or unusual odour were observed around or beneath the AST at the time of the site visit.

Motor oils were stored inside the workshop. No other chemicals were noted on-site at the time of the site visit. No potential concerns were noted with the chemical storage on the Phase I Property.

Waste is not currently generated on the Phase I Property.



## **Neighbouring Properties**

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

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

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

## 7.0 REVIEW AND EVALUATION OF INFORMATION

### 7.1 Land Use History

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

Time Period	Name of Owner	Property Use	Description of Property Use	Other Observations from Aerial Photos, FIPs, etc.
Prior to 1890	Unknown	Residential and Agricultural	Phase I Property was reportedly developed as a farmstead in the late 1800's.	First developed use based on personal interview.
1890 to 2007	Private individuals (Maxwell Family)	Residential and Agricultural	Farmstead: residential dwelling and cattle farm	Existing farmstead can be seen in 1934 aerial (earliest aerial available for review). No significant change in land use noted in subsequent 1952, 1976, 1989 and 2007 aerials.
2007 to 2017	Maxwell Family	Residential	Residential and storing tools and farm equipment	Based on an interview with the current property owner. Lack of activity on the Phase I Property can be seen in 2011 and 2017 aerial photos.
2017 to present	Maxwell Family	Residential	Unoccupied or uninhabited	Based on an interview the Phase I Property is current unoccupied.

#### Potentially Contaminating Activities

The following PCAs, as per Table 2, O.Reg. 153/04, as amended, were identified on the Phase I Property:

- ❑ PCA 1: Item 28, “Gasoline and Associated Products Storage in Fixed Tanks” – this PCA was identified based on the presence of a former underground storage tank situated on the southwest side of the residential dwelling on the Phase I Property.
- ❑ PCA 2: Item 28, “Gasoline and Associated Products Storage in Fixed Tanks” – this PCA was identified based on the presence of an empty above ground

storage tank situated on the west side of the storage shed located east of the residential dwelling on the Phase I Property.

- **PCA 3: Item 28, “Gasoline and Associated Products Storage in Fixed Tanks”** – this PCA was identified based on the presence of three (3) empty above ground storage tanks situated inside the northeastern storage shed on the Phase I Property.

The rationale for identifying the PCAs is based on the site visit and an interview with the current owner of the Phase I Property.

The locations of PCAs within the Phase I Study Area are shown on Drawing PE4760-2 –Surrounding Land Use Plan.

**Areas of Potential Environmental Concern**

A summary of the PCAs that represent APECs on the Phase I Property are presented in Table 2.

<b>Table 2: Areas of Potential Environmental Concern</b>					
<b>Area of Potential Environmental Concern (APEC)</b>	<b>Location of APEC on Phase I Property</b>	<b>Potentially Contaminating Activity (PCA)</b>	<b>Location of PCA (on-site or off-site)</b>	<b>Contaminants of Potential Concern</b>	<b>Media Potentially Impacted (Soil and/or Groundwater)</b>
<u>APEC 1:</u> Presence of a former UST	Central west portion of the Phase I Property	Item 28: Gasoline and associated product storage in fixed tanks	On-site	BTEX, PHC (F <sub>1</sub> -F <sub>4</sub> )	Soil and Groundwater
<u>APEC 2:</u> Presence of an empty AST	Central portion of the Phase I Property	Item 28: Gasoline and associated product storage in fixed tanks	On-site	BTEX, PHC (F <sub>1</sub> -F <sub>4</sub> )	Soil and Groundwater
<u>APEC 3:</u> Presence of three (3) ASTs	Central east portion of the Phase I Property	Item 28: Gasoline and associated product storage in fixed tanks	On-site	BTEX, PHC (F <sub>1</sub> -F <sub>4</sub> )	Soil and Groundwater

The locations of the APECs on the Phase I Property are depicted in Drawing PE4760-1 – Site Plan.

## **Contaminants of Potential Concern (CPCs)**

Based on the APECs identified on the Phase I Property, the contaminants of potential concern (CPCs) in the soil and groundwater include benzene, ethylbenzene, toluene and xylenes (BTEX), and petroleum hydrocarbons (PHCs, Fractions F<sub>1</sub>-F<sub>4</sub>).

## **7.2 Conceptual Site Model**

### **Geological and Hydrogeological Setting**

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

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

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

### **Buildings and Structures**

The Phase I Property is occupied by seven (7) structures that include a residential dwelling and private shed, a small vacant cabin, and four (4) barn-like structures. The residential dwelling is currently uninhabited. The workshop is used intermittently by the current landowner.

### **Subsurface Structures and Utilities**

Presently the Phase I Property is serviced by a private well and septic system with above ground electricity service from March Road. Underground natural gas and electrical services are present on-site.

The presence of underground electrical and natural gas lines is not considered to have an affect on contaminant distribution or transport.

## **Water Bodies**

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

## **Areas of Natural Significance**

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

## **Potable Water Wells**

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

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

## **Monitoring Wells**

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

## **Neighbouring Land Use**

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

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

As per Section 7.1 of this report, presented in Table 2, the on-site PCAs include the former presence of a UST and presence of empty ASTs resulted in APECs on the Phase I Property

## **Contaminants of Potential Concern**

As per Section 7.1 of this report, the CPCs in the soil and groundwater on the Phase I Property include the following benzene, ethylbenzene, toluene and xylenes (BTEX) and petroleum hydrocarbons (PHCs, Fractions F<sub>1</sub>-F<sub>4</sub>).

## **Assessment of Uncertainty and/or Absence of Information**

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are potentially contaminating activities (PCAs) on-site, which have resulted in areas of potential environmental concern (APECs) on the Phase I Property. The presence of PCAs was confirmed by a variety of independent sources, including, observations made during the site visit and a personal interview. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

## 8.0 CONCLUSION

### Assessment

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

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

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

Following the historical research, a site visit was conducted. The subject land is occupied by multiple structures consisting of storage barns, maintenance and tool storage sheds, a single-storey cabin and a two-storey residential structure with a basement level. The current property owner was present at the time of the assessment and indicated that a former underground storage tank (UST) was situated on the south side of the residence. The former UST represents a PCA that represents an area of potential environmental concern (APEC) on the Phase I Property.

Additionally, three (3) empty aboveground storage tanks (ASTs) were noted in the interior of the northeastern storage shed, as well as an AST along the exterior west wall of another storage shed, located between the residence and the northwestern shed. The ASTs on-site were considered PCAs that represent APECs on the Phase I Property.

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

**Based on the results of the Phase I ESA, it is our opinion that a Phase II Environmental Site Assessment is required for the subject property.**

## **Recommendations**

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



## 9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of Wexcom Developments (March Road) Limited. Permission and notification from Wexcom Developments (March Road) Ltd. and Paterson Group will be required to release this report to any other party.

### Paterson Group Inc.



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



Mark S. D'Arcy, P.Eng., QP<sub>ESA</sub>



### Report Distribution:

- Wexcom Developments (March Road) Limited
- Paterson Group Inc.

## **10.0 REFERENCES**

### **Federal Records**

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

### **Provincial Records**

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

### **Municipal Records**

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

### **Local Information Sources**

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

### **Public Information Sources**

Google Earth.  
Google Maps/Street View.

# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4760-1 – SITE PLAN**

**DRAWING PE4760-2 – SURROUNDING LAND USE PLAN**

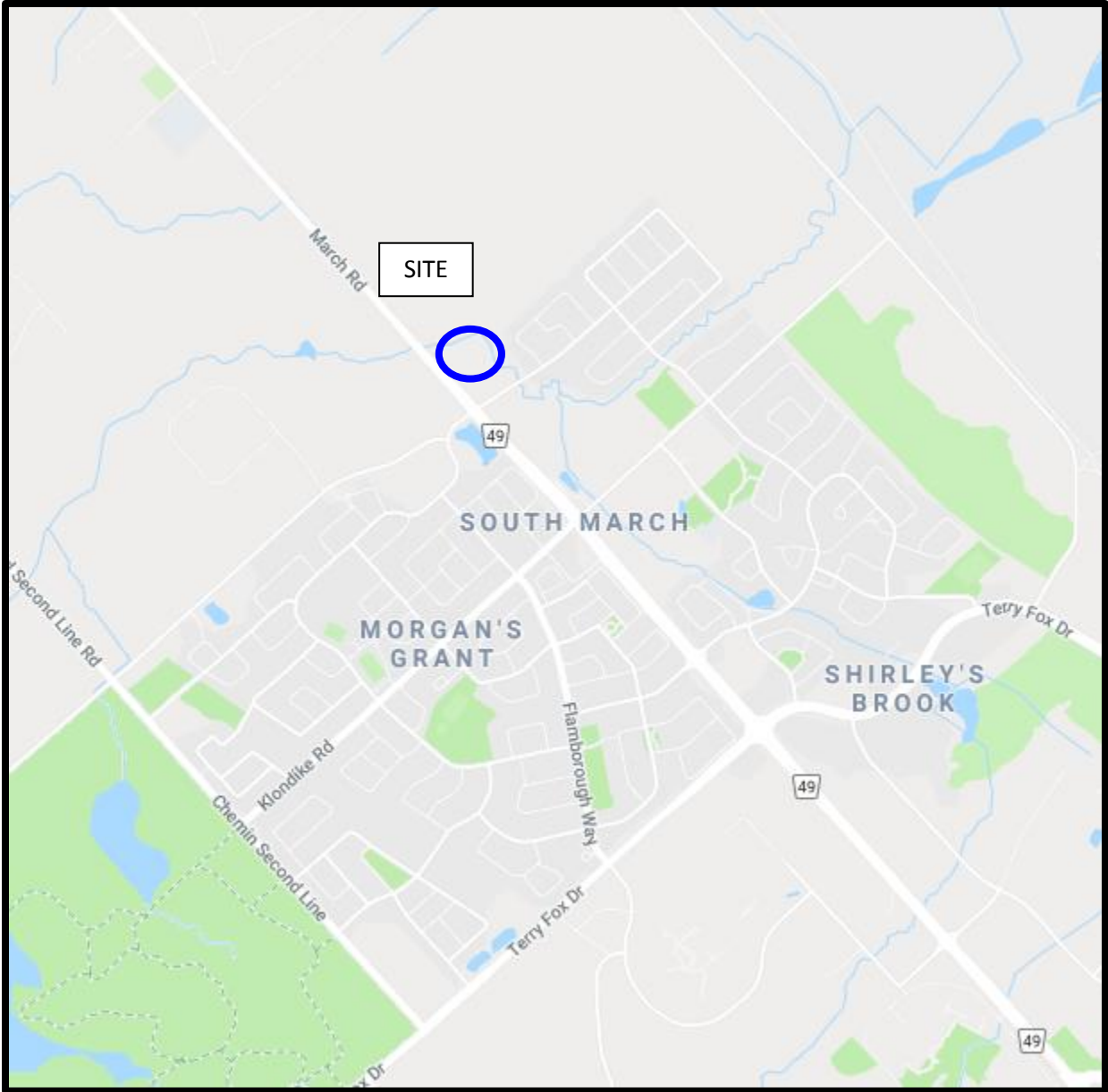
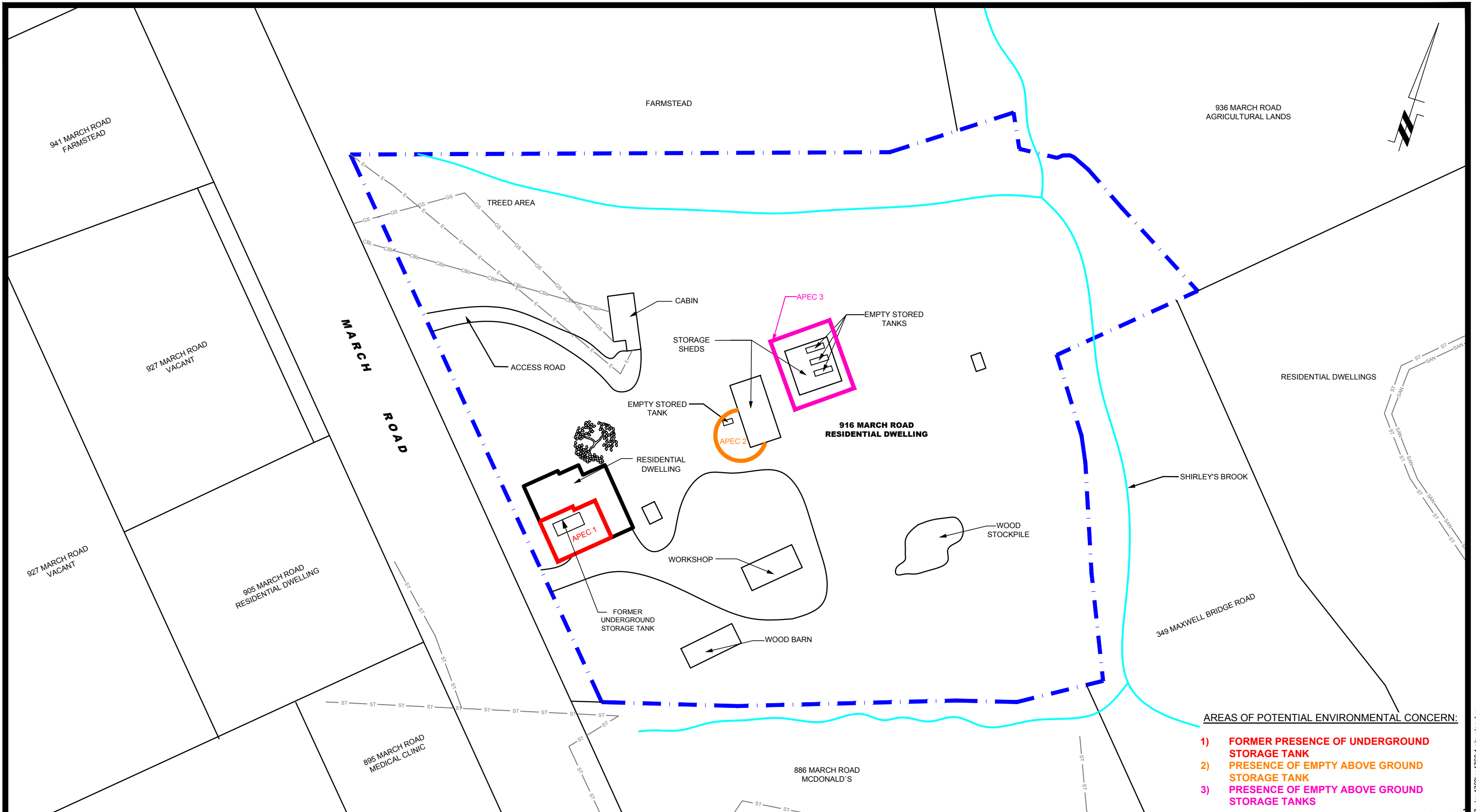


FIGURE 1  
KEY PLAN



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

**WEXCOM COMMERCIAL DEVELOPMENTS (MARCH ROAD LIMITED)**  
**PHASE I - ENVIRONMENTAL SITE ASSESSMENT**  
**910 MARCH ROAD**

**OTTAWA,**  
Title:

**ONTARIO**

**SITE PLAN**

Scale: 1:1000

Date: 10/2019

Drawn by: YA

Report No.: PE4760-1

Checked by: MW

Dwg. No.: **PE4760-1**

Approved by: MSD

Revision No.:



**PHASE I - ENVIRONMENTAL SITE ASSESSMENT STUDY AREA**

**POTENTIALLY CONTAMINATING ACTIVITIES:**

- 1) FORMER PRESENCE OF AN UNDERGROUND STORAGE TANK
- 2) PRESENCE OF EMPTY ABOVE GROUND STORAGE TANK
- 3) PRESENCE OF EMPTY ABOVE GROUND STORAGE TANKS

**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

**WEXCOM COMMERCIAL DEVELOPMENTS (MARCH ROAD LIMITED)**  
**PHASE I - ENVIRONMENTAL SITE ASSESSMENT**  
**910 MARCH ROAD**

**OTTAWA, ONTARIO**

**SURROUNDING LAND USE PLAN**

Scale:	1:3250	Date:	10/2019
Drawn by:	YA	Report No.:	PE4760-1
Checked by:	MW	Dwg. No.:	<b>PE4760-2</b>
Approved by:	MSD	Revision No.:	

# **APPENDIX 1**

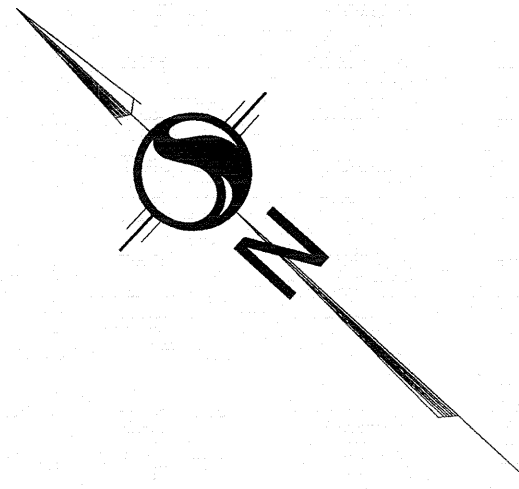
**SURVEY PLAN**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**



4-July-2017 03:31 AM



ASSOCIATION OF ONTARIO  
LAND SURVEYORS  
PLAN SUBMISSION FORM  
2011903



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

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TOPOGRAPHIC PLAN OF SURVEY  
PART OF LOTS 11 & 12  
CONCESSION 4  
(GEOGRAPHIC TOWNSHIP OF MARCH)  
CITY OF OTTAWA

Scale 1:500  
0 10 20 30 METRES

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

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

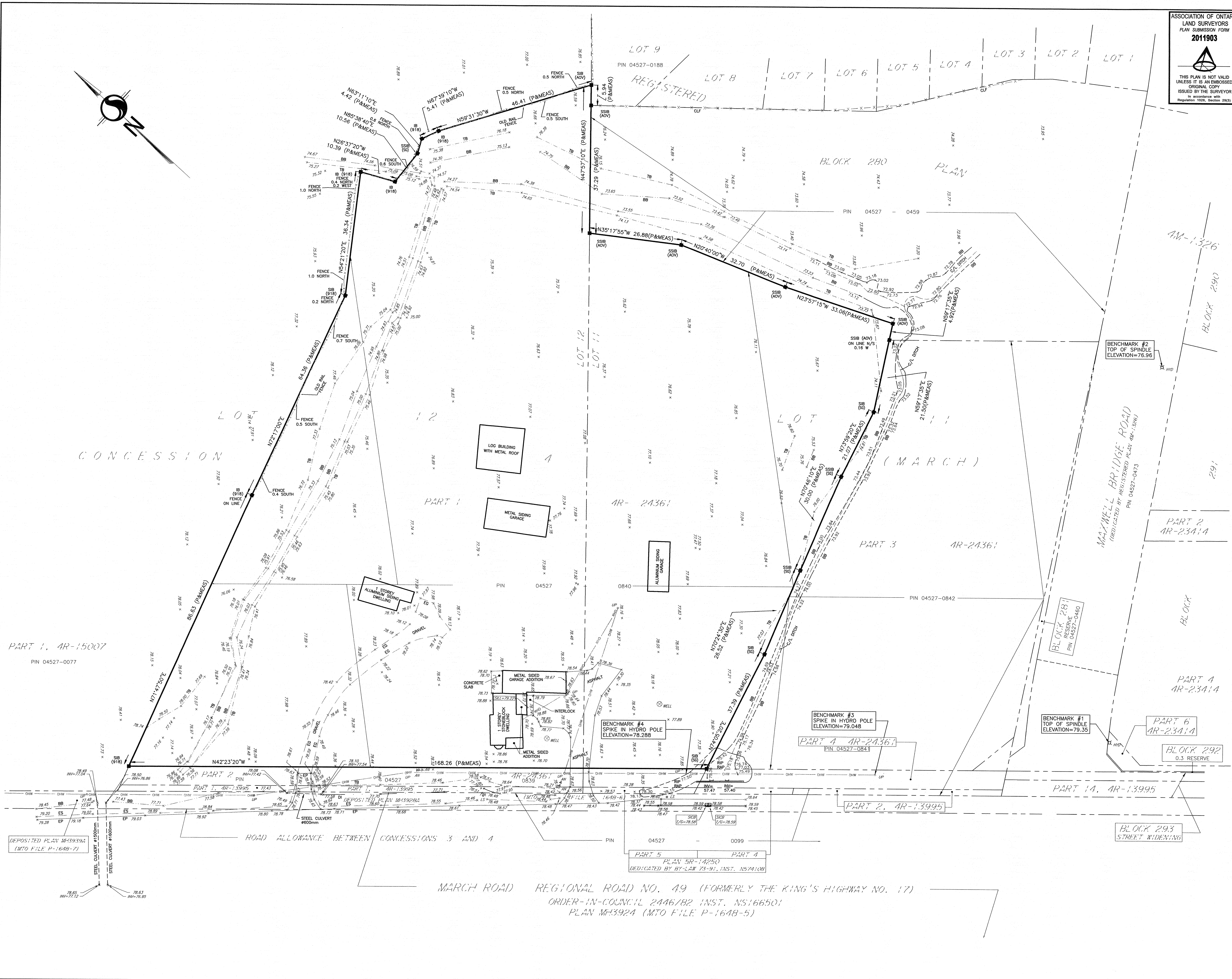
**BEARING NOTE**  
BEARINGS ARE GRID, DERIVED FROM CAN-NET VES NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19773035 AND 19680191, CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83 (ORIGINAL).

19773035 N:500660.42 E:324888.04  
19680191 N:5033564.26 E:388064.94

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

**LEGEND**

SYMBOL	DENOTES	FOUND MONUMENTS
IB	IRON BAR	IRON BAR
IBS	ROUND IRON BAR	ROUND IRON BAR
SSIB	STANDARD IRON BAR	STANDARD IRON BAR
CC	CUT CROSS	SHORT STANDARD IRON BAR
CP	CONCRETE PIN	CONCRETE PIN
WIT	WITNESS	WITNESS
PIN	PROPERTY IDENTIFICATION NUMBER	MEASURED
PROP	PROPORTIONED	PROPORTIONED
OU	ORIGIN UNKNOWN	STANTEC GEOMATICS LTD.
ORP	OBSERVED REFERENCE POINT	OBSERVED REFERENCE POINT
P	PLAN AR-24361	PLAN AR-24361
ES	EDGE OF SHOULDER	EDGE OF SHOULDER
EP	EDGE OF ASPHALT	EDGE OF ASPHALT
DI	DITCH	DITCH
TB	TOP OF BANK	TOP OF BANK
BB	BOTTOM OF BANK	BOTTOM OF BANK
EG	EDGE OF GRAVEL	EDGE OF GRAVEL
T/G	TOP OF GRATE	TOP OF GRATE
▲	ANCHOR	ANCHOR
◻	SIDE INLET CB	SIDE INLET CB
⊕	FIRE HYDRANT	FIRE HYDRANT
○	UTILITY POLE	UTILITY POLE
⊙	LIGHT STANDARD	LIGHT STANDARD
⊕	WELL	WELL



**SURVEYOR'S CERTIFICATE**  
I CERTIFY THAT:  
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.  
2. THE SURVEY WAS COMPLETED ON THE 27th DAY OF JUNE, 2017.

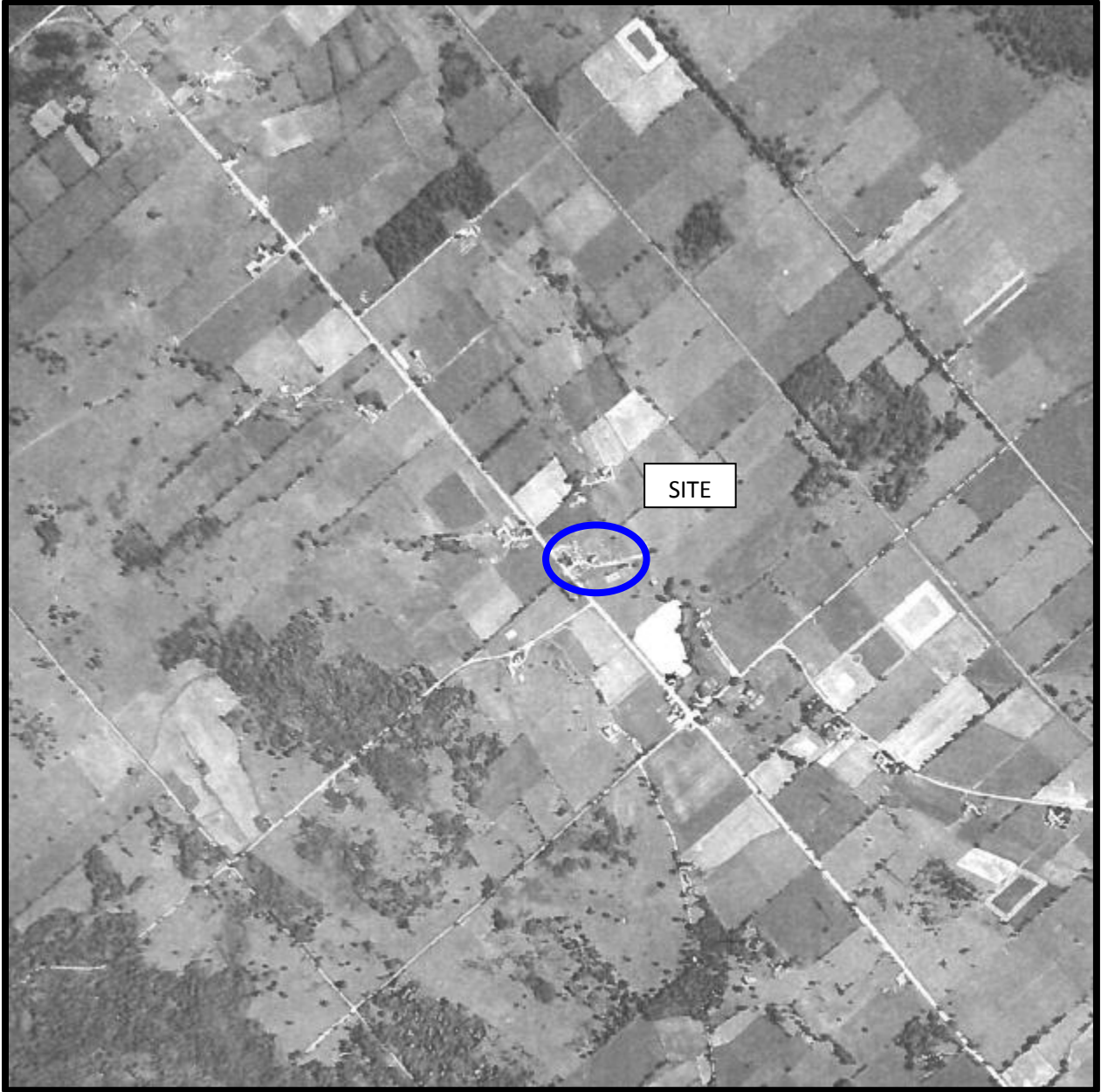
June 10/17  
DATE  
BRIAN J. WEBSTER  
ONTARIO LAND SURVEYOR



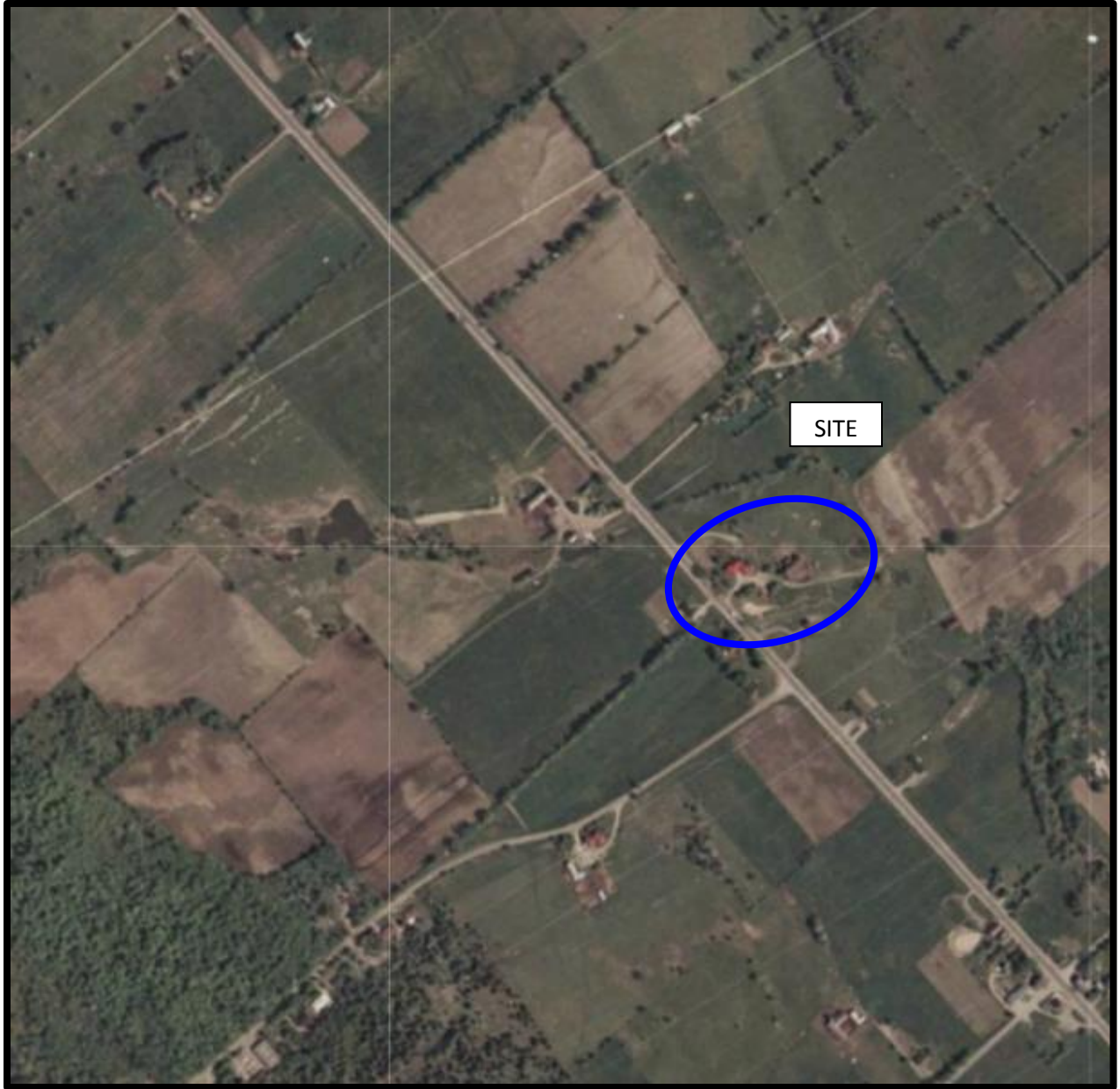
AERIAL PHOTOGRAPH  
1934



AERIAL PHOTOGRAPH  
1945



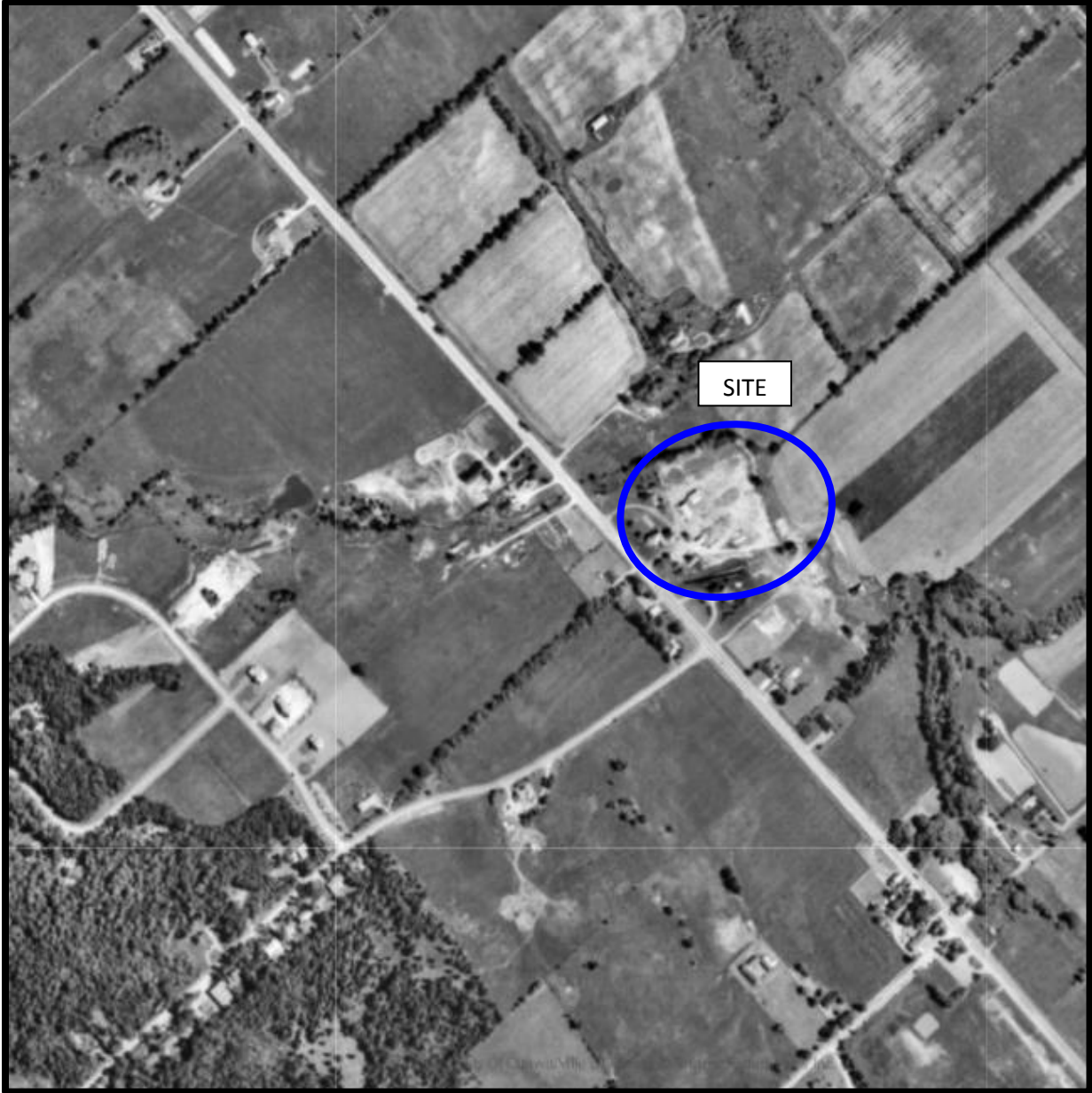
AERIAL PHOTOGRAPH  
1955



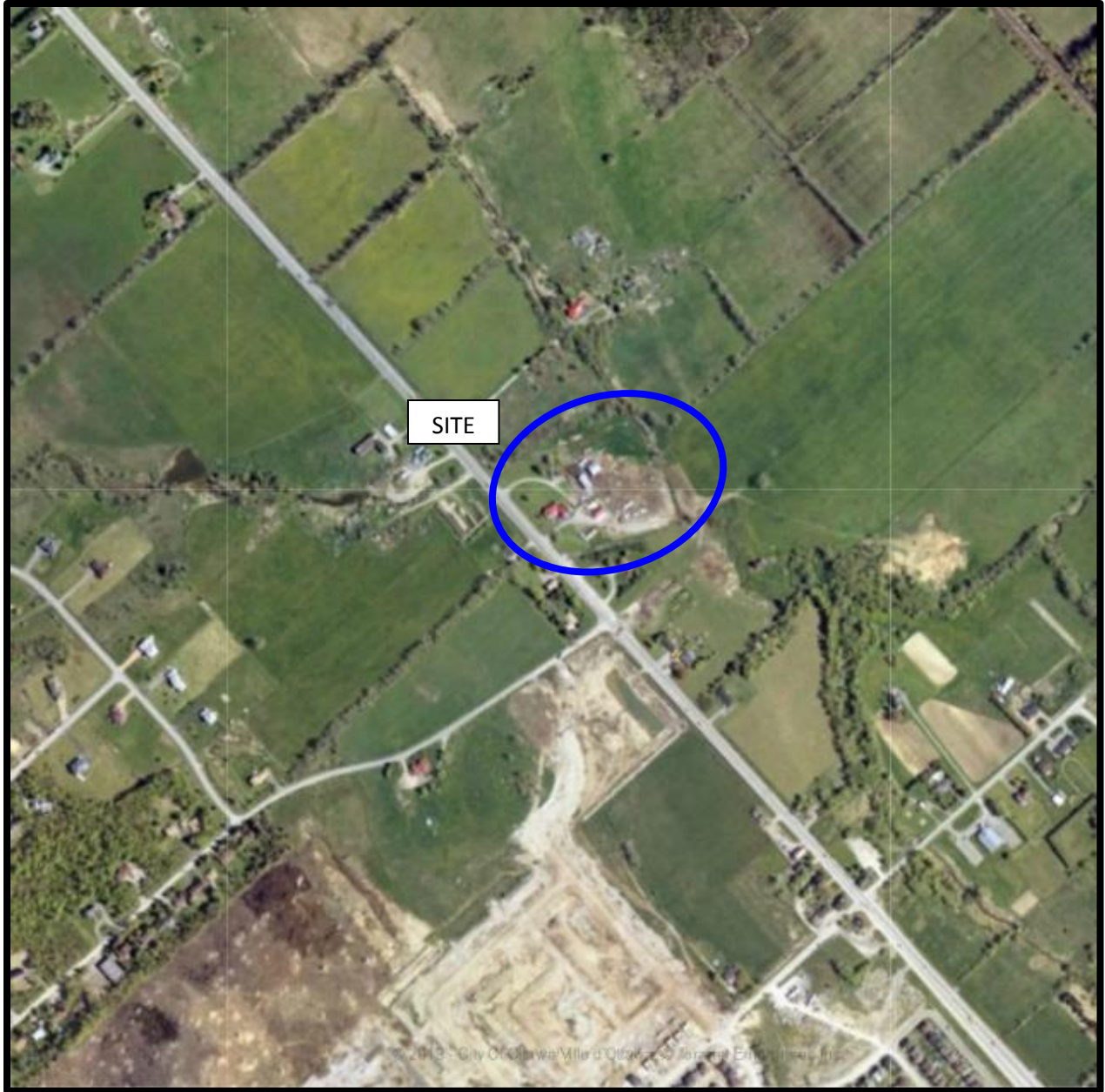
AERIAL PHOTOGRAPH  
1976



AERIAL PHOTOGRAPH  
1989

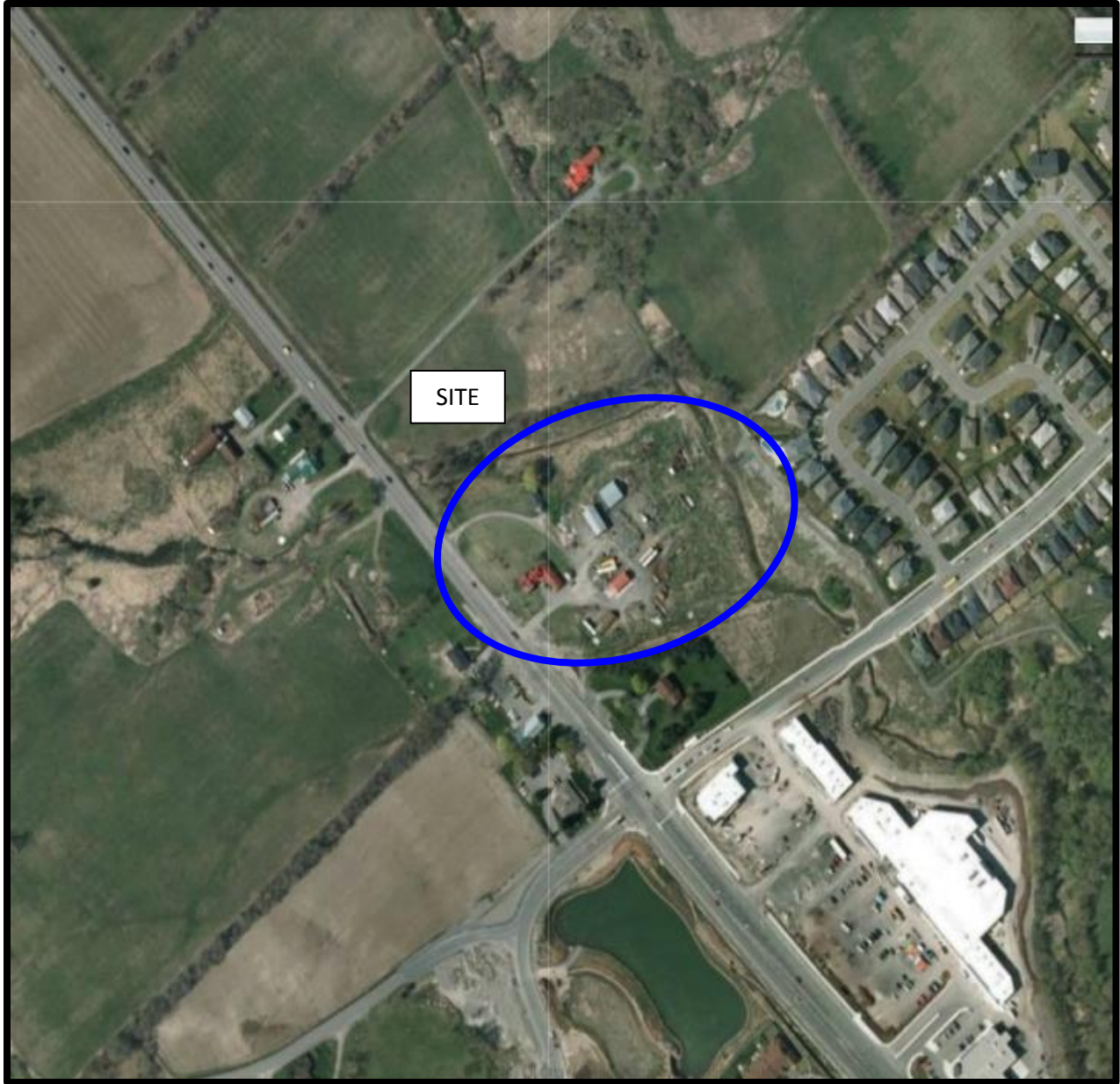


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1991

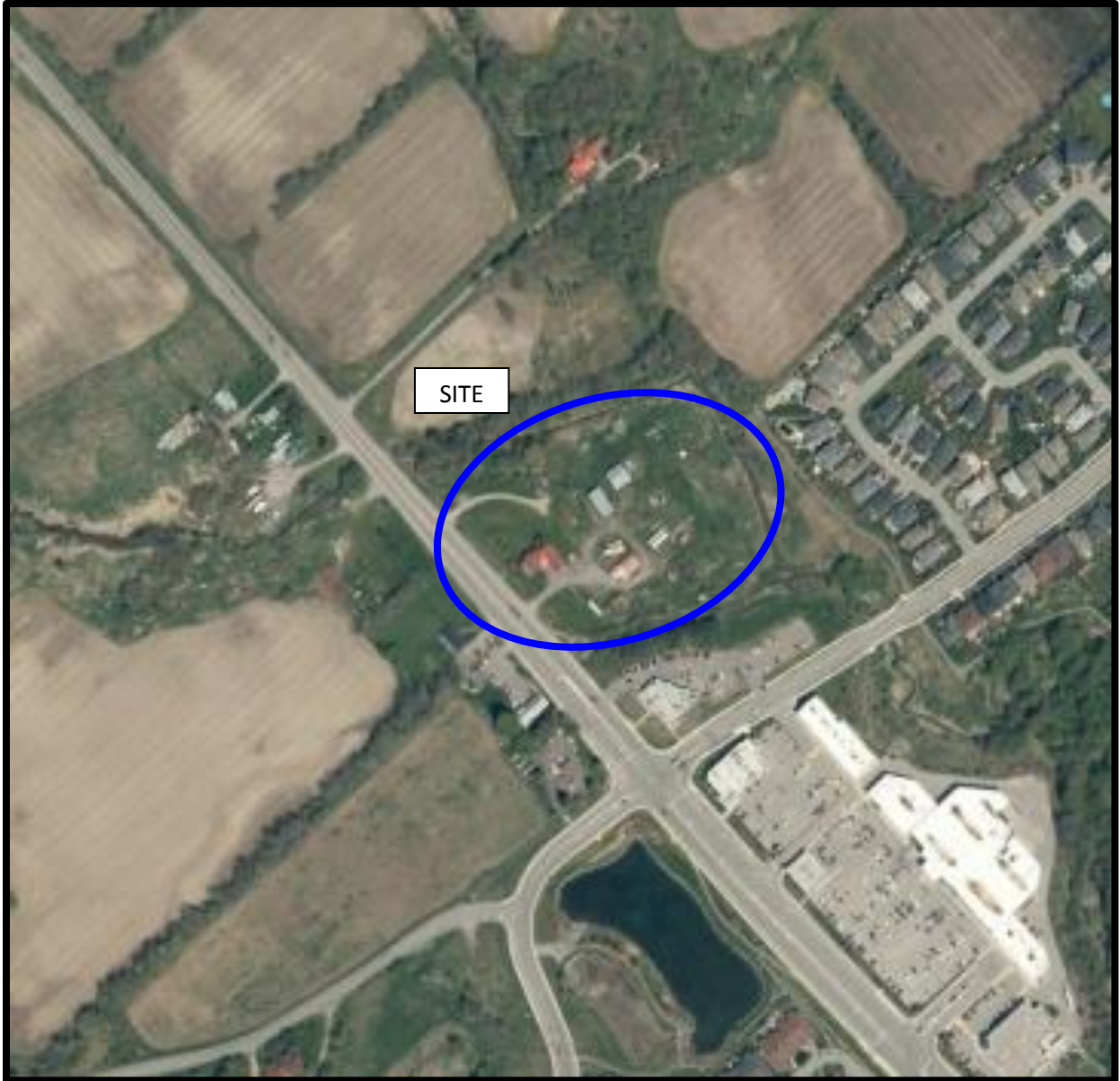


AERIAL PHOTOGRAPH  
2002





AERIAL PHOTOGRAPH  
2011



AERIAL PHOTOGRAPH  
2017

## Site Photographs

PE4760

910 March Road – Ottawa, ON

October 3, 2019



Photograph 1: South west view of the subject site, looking onto March Road.



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

## Site Photographs

PE4760

910 March Road – Ottawa, ON

October 3, 2019



Photograph 3: View of the attached garage (part of the residential dwelling), looking northeast.



Photograph 4: West view of the site/garage, looking towards March Road.

## Site Photographs

PE4760

910 March Road – Ottawa, ON

October 3, 2019



Photograph 5: View of the residential dwelling, looking north.



Photograph 6: Northwestern view of the subject site.

## Site Photographs

PE4760

910 March Road – Ottawa, ON

October 3, 2019



Photograph 7: Eastern view of the subject site, taken from the north side of the residential dwelling.



Photograph 8: Northeastern view of the subject site and vacant wood cabin.

## Site Photographs

PE4760

910 March Road – Ottawa, ON

October 3, 2019



Photograph 9: Northern view of the subject site, taken from the north side of the residential dwelling.



Photograph 10: Southeastern view of the subject site, taken from the south side of the cabin.

# **APPENDIX 2**

**MECP FREEDOM OF INFORMATION SEARCH REQUEST**

**MECP WATER WELL RECORDS**


**CITY OF OTTAWA HLUI SEARCH**

**TSSA CORRESPONDENCE**



## Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: mwitteman@patersongroup.ca			FOI Request No. _____ Date Request Received _____	
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Your Project/Reference No. PE4760		Signature/Print Name of Requester Mandy Witteman 		
<b>Request Parameters</b>				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions)				
910 March Rd, Ottawa, ON.				
Present Property Owner(s) and Date(s) of Ownership				
Wexford Commercial Developments Ltd.				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s) (if applicable)				
<b>Search Parameters</b>				<b>Specify Year(s) Requested</b>
<i>Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.</i>				
Environmental concerns (General correspondence, occurrence reports, abatement)				all
Orders				all
Spills				all
Investigations/prosecutions ➤ Owner AND tenant information must be provided				all
Waste Generator number/classes				all
<b>Certificates of Approval ➤ Proponent information must be provided</b>				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
			SD	Specify Year(s) Requested
air - emissions				1986-present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986-present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986-present
waste water - industrial discharges				1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986-present
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste				1986-present
pesticides - licenses				1986-present

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.



MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act  
**WATER WELL RECORD**

316/5d

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

11 1514785 15006 CON OH

COUNTY OR DISTRICT: West Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March CON., BLOCK, TRACT, SURVEY, ETC.: 4

R.I. Kanata Ont. DATE COMPLETED: DAY 01 MONTH 07 YEAR 75  
ELEVATION: 231.00 4 025.5 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	clay		soft.	0	25
Gray	sandstone		hard	25	90

31 002560585 009021873

41 WATER RECORD

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
15-18	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INCHES DIAM.	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	.188	0 007
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		27 090
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		

SCREEN

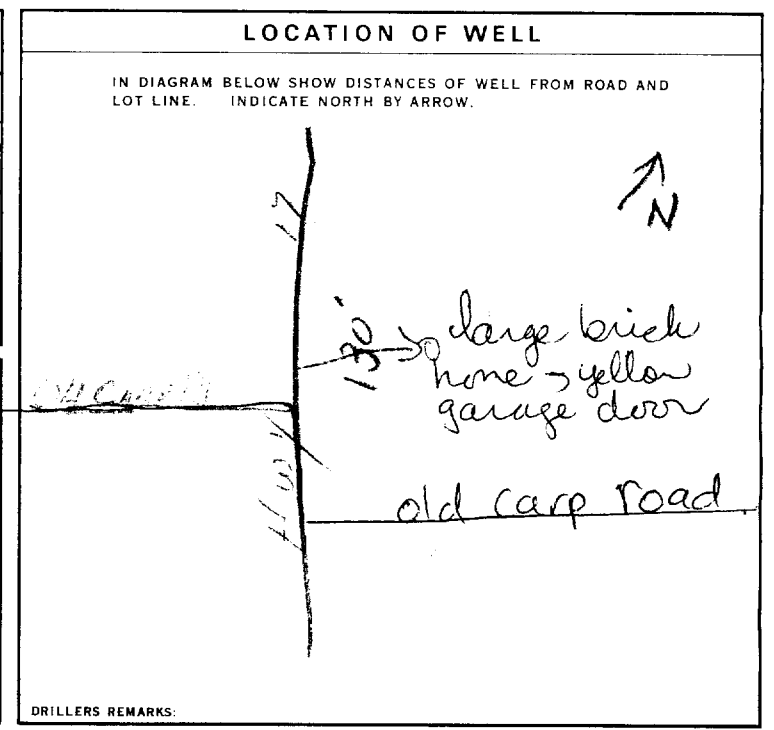
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 80

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
28-29	30-33 80

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015 GPM	02 HOURS 00 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES 30 MINUTES 45 MINUTES 60 MINUTES
011 FEET	030 FEET	030 030 030 030
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	030 GPM	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	030 FEET	0005 GPM



FINAL STATUS OF WELL

WATER USE

METHOD OF DRILLING

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"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	
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 OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED
1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	

CONTRACTOR

NAME OF WELL CONTRACTOR: Maple Leaf Drilling LICENCE NUMBER: 3658

ADDRESS: 2107-465 Richmond Road Ottawa

NAME OF DRILLER OR BOREN: R. Bisson LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 9 MO. 7 YR. 75

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3658 DATE RECEIVED: 2307 75

DATE OF INSPECTION: 10/6/77 INSPECTOR: [Signature]

REMARKS:

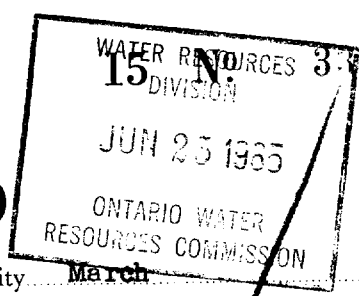
P

WI





3165d



UTM 18 426560 E

5 R 5022940 N The Ontario Water Resources Commission Act

Elev. 4 R 0260

# WATER WELL RECORD

Basin 25 | Carleton

Township, Village, Town or City March

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

Address South March, Ont.

### Casing and Screen Record

Inside diameter of casing 15' of 5"

Total length of casing 15'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

### Pumping Test

Static level 7'

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

Pumping level 17'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 5 GPM G.P.M.

with pump setting of 25' feet below ground surface

### Well Log

### Water Record

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

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

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

Drilling or Boring Firm Blair Phillips Drilling Co. Ltd.

Address Ottawa

Licence Number 1815

Name of Driller or Borer J. Moore

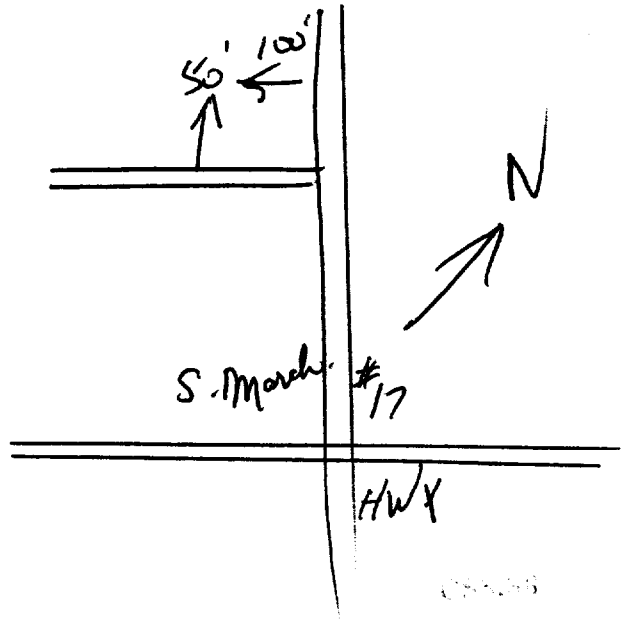
Address Kars, Ont.

Date 28 May 1965

*[Signature]*  
(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.



388A



31G5d

GROUND-WATER BRANCH  
15 No. 3  
JAN 17 1964  
ONTARIO WATER RESOURCES COMMISSION

UTM 18 42 61 43 10 E

Co. 5 R 50 2 3 1 10 5 N

Elev. 20 14 R 0 2 6 0

Basin 2 5 1 L 1 Carleton

County or District 111

Lot 12

Township, Village, Town or City March

Date completed 23 May 1963 (day month 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

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock	0	12		
limestone	12	38		
sandstone	38	60	60	fresh

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

house

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

Drilling or Boring Firm

McBean Water Supply Ltd.

Address 1532 Raven Ave  
Ottawa, Ont.

Licence Number 1090

Name of Driller or Borer H. Scharf

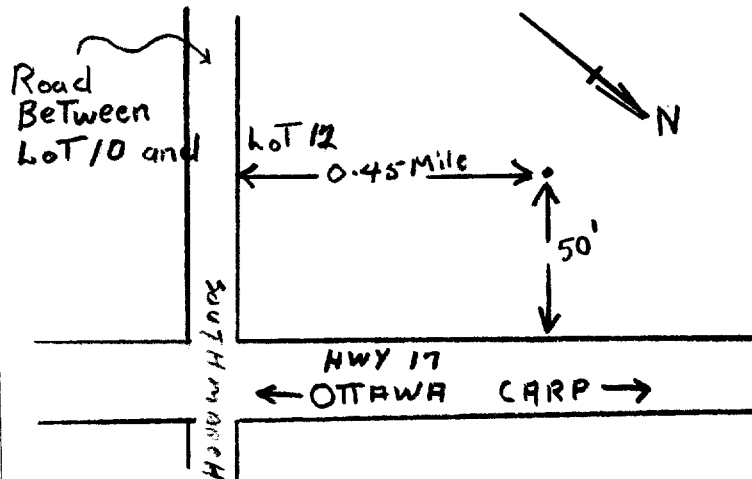
Address

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.





3165d

GROUND WATER BRANCH  
15 No.  
FEB 20 1962  
ONTARIO WATER RESOURCES COMMISSION

3117

UTM 18 4261610 E

05 R 50221920 N

The Ontario Water Resources Commission Act

Elev 4 0245

# WATER WELL RECORD

Basin 25  
County or District Carleton

Township, Village, Town or City March

Con. 4 Lot 11

Date completed 12 Nov 61  
(day month year)

Address Britannia Bay

### Casing and Screen Record

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

### Pumping Test

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

### Well Log

### Water Record

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

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

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

Drilling or Boring Firm Ben E Sparks

Address \_\_\_\_\_

Licence Number 244

Name of Driller or Borer Ben E Sparks

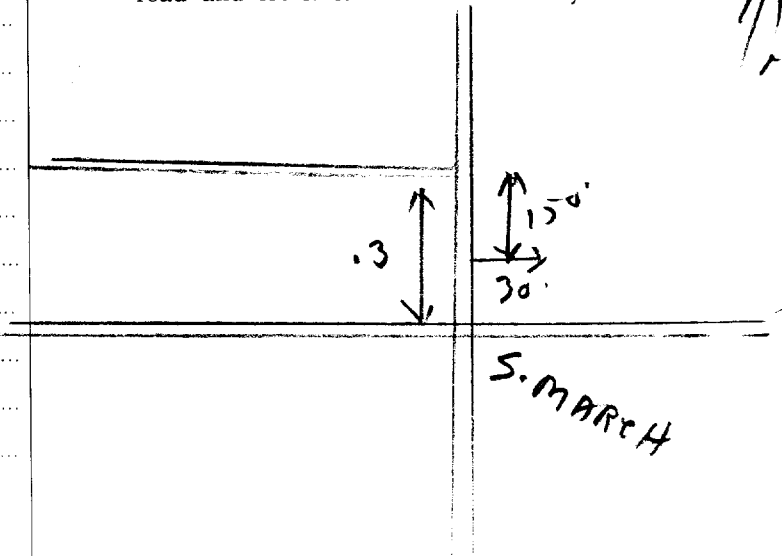
Address \_\_\_\_\_

Date Feb 7/62

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

### Location of Well

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



UTM 18Z 426465E  
C5R 5023270N  
 Elev: 4R 0260



3195d

WATER RESOURCES  
 DIVISION NO. 3414  
 JUL 6 1964  
 ONTARIO WATER  
 RESOURCES COMMISSION

3414  
 X

The Ontario Water Resources Commission Act

# WATER WELL RECORD

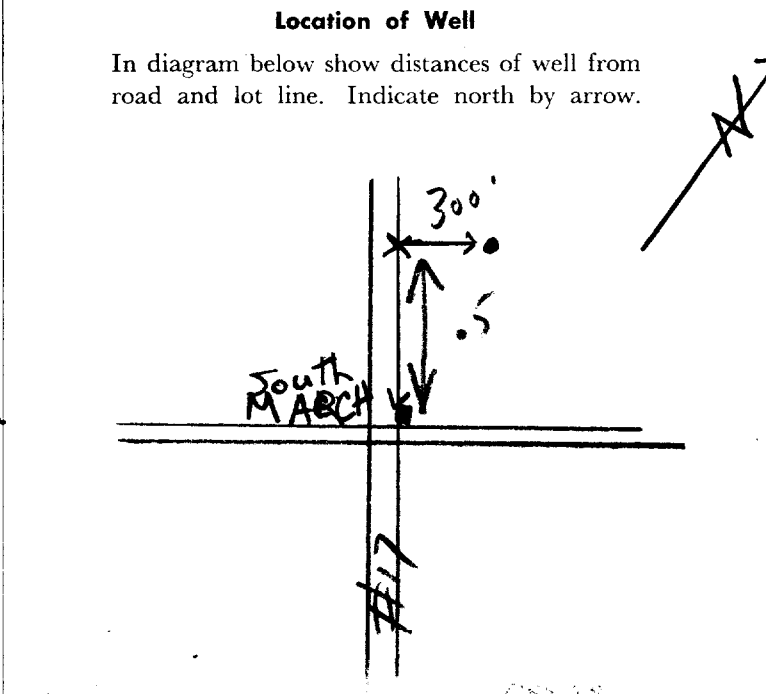
Basin 25 | 1 | Carl | Township, Village, Town or City March  
 County or District  
 Con. 4 | Lot 12 | Date completed 6 Feb 64  
 (day month year)  
 Address South March

Casing and Screen Record	
Inside diameter of casing	<u>5"</u>
Total length of casing	<u>18'</u>
Type of screen	
Length of screen	
Depth to top of screen	
Diameter of finished hole	<u>5"</u>

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

Well Log	Water Record			
	Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found
<u>clay + boulders</u>	<u>0</u>	<u>9</u>	<u>50</u>	<u>fresh</u>
<u>Sandstone</u>	<u>9</u>	<u>40</u>		
<u>granite</u>	<u>40</u>	<u>51</u>		

For what purpose(s) is the water to be used? old house  
 Is well on upland, in valley, or on hillside? upland  
 Drilling or Boring Firm Capital Water Supply  
 Address 1243 Heron Rd  
Ottawa  
 Licence Number 1223  
 Name of Driller or Borer M Kavanagh  
 Address  
 Date 9/3/64  
Walter Kavanagh  
 (Signature of Licensed Drilling or Boring Contractor)



Form 7 15M-60-4138

OWRC COPY BUNGALOW - IMITATION SIDE 512146.

Con 10  
Feb 11  
CODED



1510247  
3 9

1182 426610

4R 5022970

The Ontario Water Resources Commission Act

lev. 5R 0256

# WATER WELL RECORD

sin 251  
County or District Carleton Place

Township, Village, Town or City March

Con. 1V Lot 11

Date completed 11 June 1969  
(day month year)

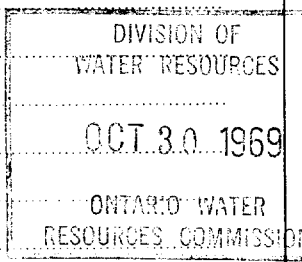
Owner M. Holitzner Ltd  
(print in block letters)

Address Hazeldean Ont.

## Casing and Screen Record

## Pumping Test

Inside diameter of casing 5"  
 Total length of casing 28'  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 5"



Static level 5  
 Test-pumping rate 10 G.P.M.  
 Pumping level 9  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 30 feet below ground surface

## Well Log

## Water Record

Overburden and Bedrock Record	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0</u>	<u>25</u>	<u>60</u>	<u>fresh</u>
<u>sandstone</u>	<u>25</u>	<u>62</u>		

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

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr  
Ottawa 6

Licence Number 3216

Name of Driller or Borer B. Acres

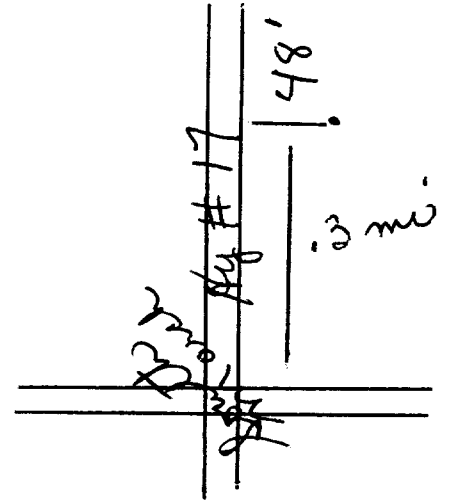
Address

Date 11 June 1969

Walter Kavanaugh  
(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.







# WATER WELL RECORD

3161 #  
1510445  
MUNICIP. 15006  
CON. C&N  
50/03

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED  
2. CHECK  CORRECT BOX WHERE APPLICABLE

11

COUNTY OR DISTRICT <b>Carleton</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>March</b>	CON., BLOCK, TRACT, SURVEY, ETC. <b>3</b>	LOT 25-27
OWNER (SURNAME FIRST) <b>Marchmont Const.</b>	ADDRESS <b>South March</b>	DATE COMPLETED DAY <b>04</b> MO. <b>08</b> YR. <b>69</b>	
ZONE <b>21</b>	EASTING <b>426480</b>	NORTHING <b>5022800</b>	RC. <b>4</b> ELEVATION <b>0255</b> BASIN CODE <b>25</b>

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sandstone			0	65
White	Limestone			65	94

31	0065618	0084115
32		

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <b>0075</b>	<input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 14 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 19 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 24 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 29 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 34 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
188	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	FROM 0 TO 20  0020  0084 27-30

### SCREEN

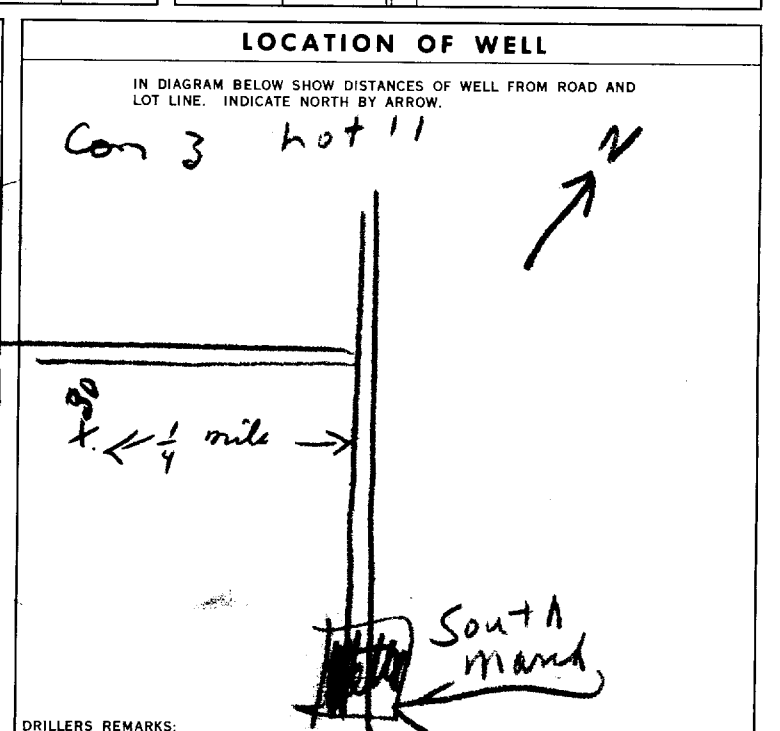
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET

### 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	

### 71 PUMPING TEST

PUMPING TEST METHOD <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	10 PUMPING RATE <b>0006</b> GPM.	11-14 DURATION OF PUMPING 15-16 HOURS <b>00</b> 17-18 MINS.
STATIC LEVEL <b>030</b> FEET	WATER LEVEL END OF PUMPING <b>070</b> FEET	WATER LEVELS DURING PUMPING 15 MINUTES <b>050</b> FEET 30 MINUTES <b>070</b> FEET 45 MINUTES <b>070</b> FEET 60 MINUTES <b>070</b> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT <b>70</b> GPM.	WATER AT END OF TEST <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE <b>8005</b> GPM.



### FINAL STATUS OF WELL

<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED, POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	

### WATER USE

<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED

### METHOD OF DRILLING

<input checked="" type="checkbox"/> CABLE TOOL	<input type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	

### CONTRACTOR

NAME OF WELL CONTRACTOR <b>Saunders Well Drilling</b>	LICENCE NUMBER <b>3480</b>
ADDRESS <b>ANDRIE</b>	
NAME OF DRILLER OR BORER <b>T. Obr. en</b>	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Robert Saunders</i>	SUBMISSION DATE DAY <b>4</b> MO. <b>AUG</b> YR. <b>69</b>

### OFFICE USE ONLY

DATA SOURCE <b>1</b>	58 CONTRACTOR <b>4724</b>	59-62 DATE RECEIVED <b>210170</b>	63-68
DATE OF INSPECTION	INSPECTOR <i>[Signature]</i>		
REMARKS:			



# The Ontario Water Resources Commission Act WATER WELL RECORD

3165d

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED  
2. CHECK  CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March CON., BLOCK, TRACT, SURVEY, ETC.: Con 4 LOT: 25-27

MUNICIP.: 1511444 CON.: 15000 CON.: con

DATE COMPLETED: DAY 07 MO July YR 71

NG 22880 RC 4 ELEVATION 0255 RC 5 BASIN CODE 25

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey clay				0	16
white sandstone				16	58

31 0016205 0058118

32

#### 41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL		0	0021
	2 <input type="checkbox"/> GALVANIZED	188		
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL			20-23
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input checked="" type="checkbox"/> OPEN HOLE			0058
24-25	1 <input type="checkbox"/> STEEL			27-30
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			

#### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

#### 61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO
10-13	14-17
18-21	20-25
26-29	30-33

#### 71 PUMPING TEST

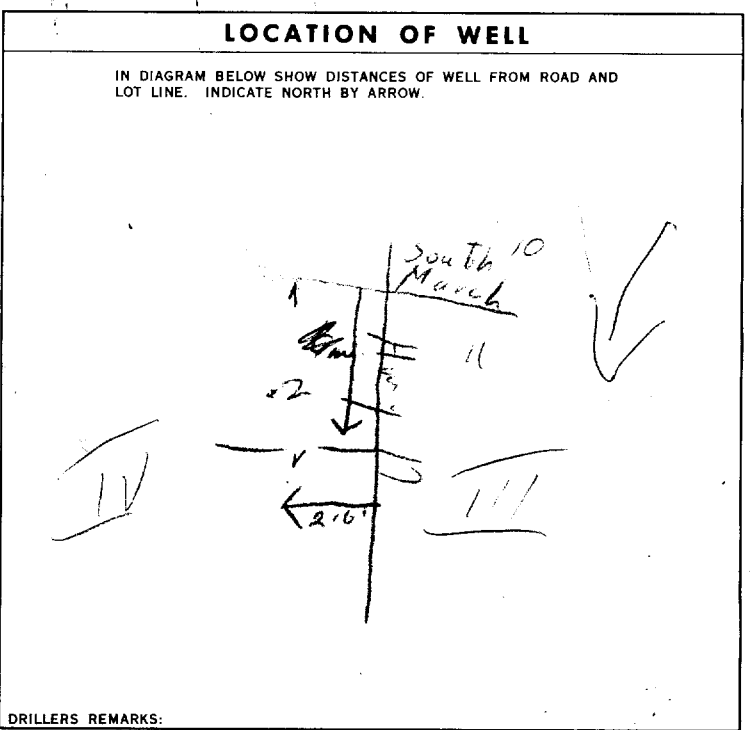
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> TAILER	0021 GPM.	01 00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
FEET	FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
006	015	012	015	015	015

IF FLOWING, GIVE RATE: \_\_\_\_\_ PUMP INTAKE SET AT: \_\_\_\_\_ WATER AT END OF TEST: \_\_\_\_\_

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

50-53 002.3 GPM./FT. SPECIFIC CAPACITY



#### FINAL STATUS OF WELL

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

#### WATER USE

1  DOMESTIC 5  COMMERCIAL  
2  STOCK 6  MUNICIPAL  
3  IRRIGATION 7  PUBLIC SUPPLY  
4  INDUSTRIAL 8  COOLING OR AIR CONDITIONING  
 OTHER 9  NOT USED

#### METHOD OF DRILLING

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mann's Well Drilling LICENCE NUMBER: 3644  
ADDRESS: Box 324 Richmond  
NAME OF DRILLER OR BORER: Henry Mann LICENCE NUMBER: \_\_\_\_\_  
SIGNATURE OF CONTRACTOR: Henry Mann SUBMISSION DATE: DAY 7 MO July YR 71

#### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 081071  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
P   
W



MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act  
**WATER WELL RECORD**

31G5d

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

11 1516260 15.0.06 CON. CQN 03  
COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March 3 CON., BLOCK, TRACT, SURVEY, ETC.: 3  
DATE COMPLETED: 04 10 77  
6 Primrose Ave. Ottawa, Ontario  
NG 23140 RC 4 ELEVATION 0260 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay		packed	0	9
brown	clay	boulders	packed	9	11
grey	limestone	sandstone	hard	11	35
grey	sandstone			35	115

31 000960579 00116051379 00352151873 9115218  
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
65	<input checked="" type="checkbox"/> STEEL	188	0 0022
06	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		22 215
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		0115
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33 80

71 PUMPING TEST METHOD

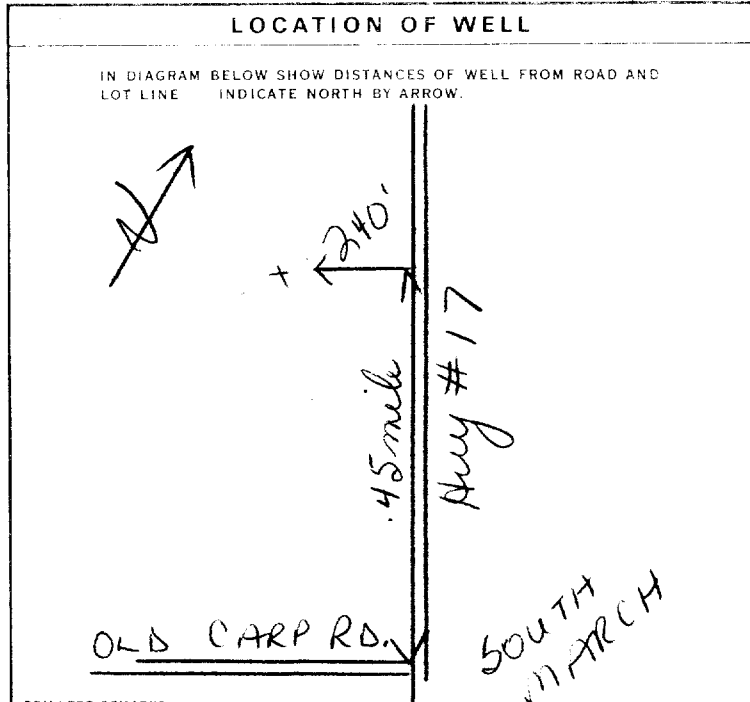
1  PUMP 2  BAILER

PUMPING RATE: 0015 GPM DURATION OF PUMPING: 01 15-16 HOURS 00 17-18 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
020	070	15 MINUTES: 070 30 MINUTES: 070 45 MINUTES: 070 60 MINUTES: 070	<input checked="" type="checkbox"/> PUMPING <input type="checkbox"/> RECOVERY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 075 FEET RECOMMENDED PUMPING RATE: 0005 GPM



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

WATER USE: 1  DOMESTIC 5  COMMERCIAL 2  STOCK 6  MUNICIPAL 3  IRRIGATION 7  PUBLIC SUPPLY 4  INDUSTRIAL 8  COOLING OR AIR CONDITIONING  OTHER 9  NOT USED

METHOD OF DRILLING: 1  CABLE TOOL 6  BORING 2  ROTARY (CONVENTIONAL) 7  DIAMOND 3  ROTARY (REVERSE) 8  JETTING 4  ROTARY (AIR) 9  DRIVING 5  AIR PERCUSSION

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

OFFICE USE ONLY: DATA SOURCE: 1 58 CONTRACTOR: 1558 59-62 DATE RECEIVED: 171177 63-68 80  
DATE OF INSPECTION: 29 June 29/78 INSPECTOR: J. D. N.  
REMARKS: New Brown Buck Bump low  
P  
WI



# WATER WELL RECORD

3165d

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

11 1516836

MUNICIPALITY 15006 CON. 03

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

DATE COMPLETED: DAY 08 MO. 11 YR. 78

ADDRESS: Old Camp Rd. R.R. #1

LOT NO.: 22960 SECTION: 26 TOWNSHIP: 10 RANGE: 26

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>Brown</u>	<u>Sand</u>		<u>loose</u>	<u>0</u>	<u>2</u>
<u>Grey</u>	<u>Sandstone</u>	<u>white layers</u>	<u>hard</u>	<u>2</u>	<u>125</u>

31 000262877 01252187473

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
<u>0120</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 7/8</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0</u>	<u>22</u>
<u>6 7/8</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>22</u>	<u>55</u>
<u>5 7/8</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>55</u>	<u>125</u>

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
<u>10-13</u>	<u>14-17</u>
<u>18-21</u>	<u>22-25</u>
<u>26-29</u>	<u>30-33</u>

**71 PUMPING TEST**

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0010 GPM

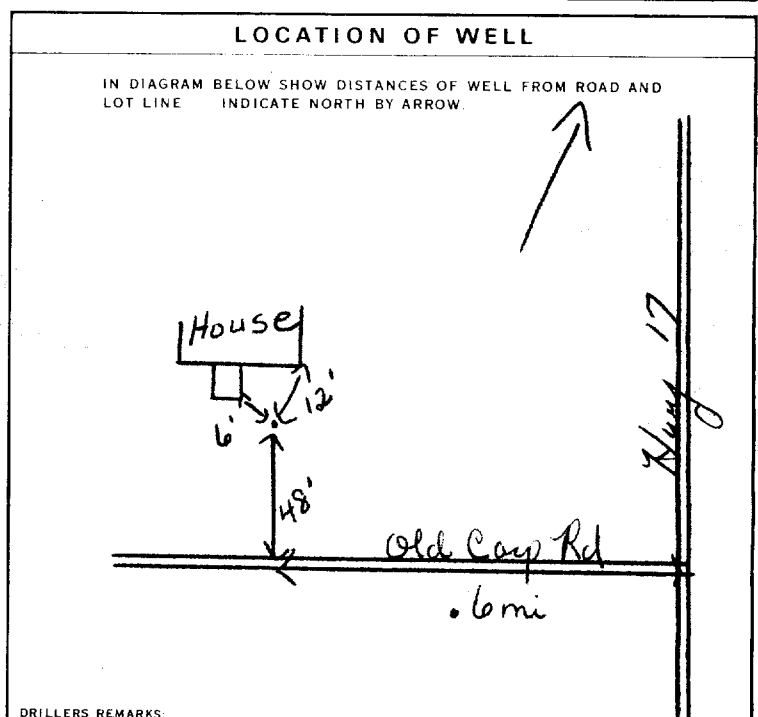
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
<u>025</u> FEET	<u>050</u> FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		<u>050</u> FEET	<u>050</u> FEET	<u>050</u> FEET	<u>050</u> FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 075 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



**FINAL STATUS OF WELL** 1  WATER SUPPLY

**WATER USE** 1  DOMESTIC

**METHOD OF DRILLING** 5  AIR PERCUSSION

**CONTRACTOR** NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LTD LICENCE NUMBER: 1538

ADDRESS: Box 490, Stutterville, Ontario

NAME OF DRILLER OR BORER: S Miller LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: JK Kawamachi SUBMISSION DATE: DAY 9 MO. 11 YR. 78

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 1538 DATE RECEIVED: 181278

DATE OF INSPECTION: 22/05/79 INSPECTOR: JK

REMARKS: \_\_\_\_\_



Ministry of the Environment  
Ontario

The Ontario Water Resources Act

31 G5d

# WATER WELL RECORD

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

11

1517937

MUNICIPALITY: 15006

CONTRACTOR: CON

03

COUNTY OR DISTRICT: Ottawa - Nepean  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata - MARCH TWP.  
CON. BLOCK, TRACT, SURVEY, ETC: Conc. III  
LOT: 01/25-27  
DATE COMPLETED: 48-53  
DAY: 17 MO: 07 YR: 82  
SOUTH MARCH, ONTARIO.  
ELEVATION: 2279.9  
BASIN CODE: 26

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sand	Gravel	Fill	0	3
Gray	Sandstone		medium	3	53

31 00026281101 005321878  
32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
10-11	1 <input checked="" type="checkbox"/> STEEL	188	FROM	TO
17-18	1 <input type="checkbox"/> GALVANIZED 2 <input type="checkbox"/> CONCRETE 3 <input type="checkbox"/> OPEN HOLE		22	20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

### SCREEN

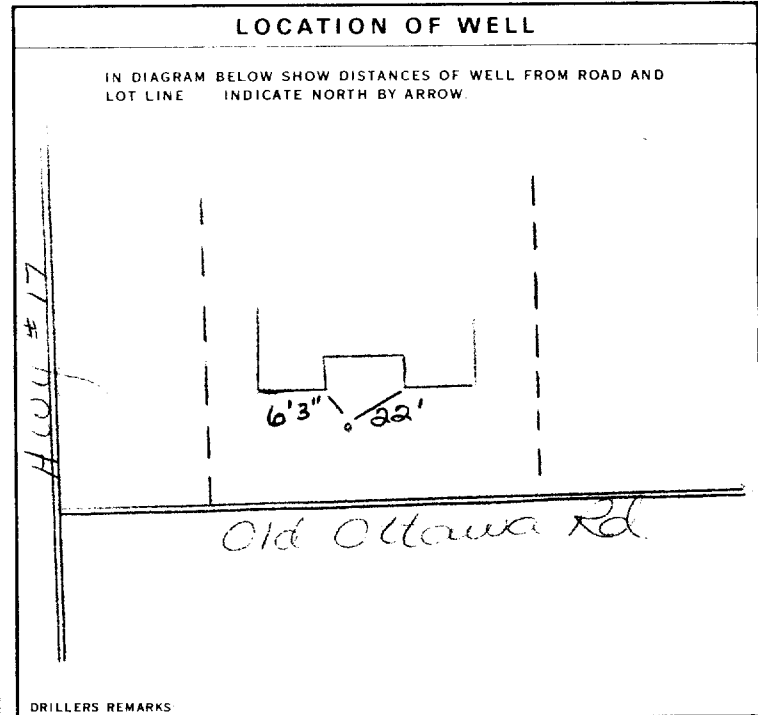
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		41-44
		FEET

### 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

### 71 PUMPING TEST

PUMPING TEST METHOD	1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER
PUMPING RATE	0015 GPM
DURATION OF PUMPING	01 HOURS 00 MINS
STATIC LEVEL	020 FEET
WATER LEVEL END OF PUMPING	030 FEET
WATER LEVELS DURING	15 MINUTES: 030 FEET 30 MINUTES: 030 FEET 45 MINUTES: 030 FEET 60 MINUTES: 030 FEET
IF FLOWING, GIVE RATE	
RECOMMENDED PUMP TYPE	<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP
RECOMMENDED PUMP SETTING	040 FEET
RECOMMENDED PUMPING RATE	0005 GPM



### FINAL STATUS OF WELL

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"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

### WATER USE

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 OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

### METHOD OF DRILLING

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	

### CONTRACTOR

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

### OFFICE USE ONLY

DATA SOURCE: 1  
CONTRACTOR: 1558  
DATE RECEIVED: 05 10 82  
DATE OF INSPECTION: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_

**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.

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

MUN		CON		LOT	
-----	--	-----	--	-----	--

**Ministry Use Only**

**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**

**3**

Site/Compartment/Block/Tract etc.

**11**

Mode of Operation:

Undifferentiated

Averaged

Differentiated, specify

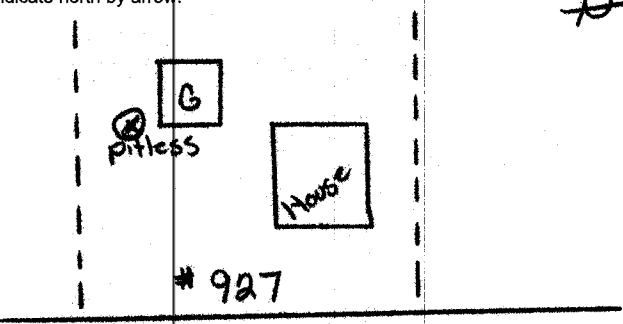
**Log of Overburden and Bedrock Materials (see instructions)**

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

<b>Hole Diameter</b>			<b>Construction Record</b>				<b>Test of Well Yield</b>					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
<b>0</b>	<b>9.75</b>	<b>22.75</b>						<b>submersible</b>				
<b>9.75</b>	<b>22.24</b>	<b>15.55</b>	<b>15.86</b>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	<b>.48</b>	<b>+</b>	<b>.45</b>	<b>9.75</b>	<b>1</b>	<b>3.60</b>	<b>1</b>	<b>4.90</b>
<b>Water Record</b>			<b>Casing</b>				Pump intake set at - (metres) <b>19.81</b>					
Water found at Metres	Kind of Water		Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Pumping rate - (litres/min) <b>54.6</b>					
<b>14.02</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Duration of pumping <b>3</b> hrs + <b>30</b> min					
<b>19.81</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Final water level end of pumping <b>5.05</b> metres					
<b>21.04</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: <b>not tested</b>		Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify			<b>Screen</b>				Recommended pump depth. <b>15.23</b> metres					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			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>		Recommended pump rate. <b>45.5</b> (litres/min)				
			<b>15.55</b>	<input checked="" type="checkbox"/> Open hole		<b>9.75</b>	<b>22.24</b>	If flowing give rate - (litres/min)				
								<b>20</b> <b>4.22</b> <b>20</b> <b>4.45</b>				
								<b>25</b> <b>4.30</b> <b>25</b> <b>4.37</b>				
								If pumping discontinued, give reason.				
								<b>30</b> <b>4.36</b> <b>30</b> <b>4.31</b>				
								<b>40</b> <b>4.47</b> <b>40</b> <b>4.22</b>				
								<b>50</b> <b>4.57</b> <b>50</b> <b>4.15</b>				
								<b>60</b> <b>4.64</b> <b>60</b> <b>4.08</b>				

<b>Plugging and Sealing Record</b> <input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment			
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
<b>9.75</b>	<b>0</b>	<b>Grouted - Bentonite Slurry</b>	<b>.254m3</b>
<b>Method of Construction</b>			
<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	
<b>Water Use</b>			
<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	
<b>Final Status of Well</b>			
<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	

<b>Well Contractor/Technician Information</b>	
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
<i>[Signature]</i>	<b>2006   6   29</b>

<b>Location of Well</b>	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
	
Audit No.	Date Well Completed
<b>Z 46998</b>	<b>2006   6   27</b>
Was the well owner's information package delivered?	Date Delivered
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>2006   6   28</b>

<b>Ministry Use Only</b>	
Data Source	Contractor
	<b>1558</b>
Date Received	Date of Inspection
<b>JUL 11 2006</b>	
Remarks	Well Record Number

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Well Owner's Information and Location of Well Information

Ministry Use Only table with columns for MUN, CON, and LOT.

Well Owner's Information and Location of Well Information form with fields for RR#, City/Town/Village, GPS Reading, etc.

Log of Overburden and Bedrock Materials (see instructions)

Log of Overburden and Bedrock Materials table with columns for General Colour, Most common material, Other Materials, General Description, Depth From, and Metres To.

Main construction and test data section including Hole Diameter, Construction Record (Casing, Screen), Water Record, and Test of Well Yield.

Plugging and Sealing Record, Method of Construction, Water Use, Final Status of Well, and Well Contractor/Technician Information sections.

Location of Well section with a diagram showing well location relative to March Rd.

Ministry Use Only section with fields for Data Source, Date Received, Date of Inspection, and Well Record Number.

Instructions for Completing Form

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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.

Well Owner's Information and Location of Well Information

Ministry Use Only									
MUN							CON		LOT

Ottawa Carleton				Kanata				11		4	
RR#/Street Number/Name 941 March Rd.				City/Town/Village Kanata				Site/Compartment/Block/Tract etc.			
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify					
	8 3	18	426390	5023443	Garmin						

Log of Overburden and Bedrock Materials (see instructions)

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

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

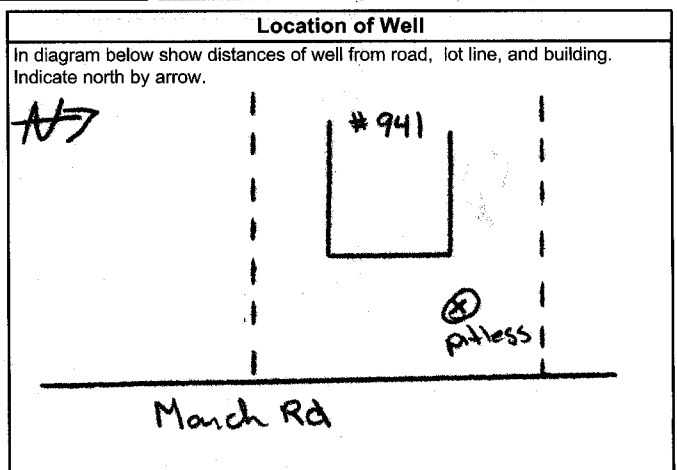
Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
6.40	0	Grouted Bentonite Slurry	.21m3	

Method of Construction			
<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"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality
<input type="checkbox"/>	<input type="checkbox"/> Unfinished
<input type="checkbox"/>	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/>	<input type="checkbox"/> Dewatering
<input type="checkbox"/>	<input type="checkbox"/> Replacement well

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



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

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



N/A

**Well Owner's Information**

First Name: Minto Developments Co Last Name: Paterson Group E-mail Address: \_\_\_\_\_  
 Mailing Address (Street Number/Name, RR): 28 Concourse Gate 1 Nepean Municipality: Ont Province: Ont Postal Code: K2E 7T7 Telephone No. (inc. area code): \_\_\_\_\_  
 Well Constructed by Well Owner

**Part A Construction and/or Major Alteration of a Well**

Address of Well Location (Street Number/Name, RR): #886 March Road Township: March Lot: 11 Concession: 4  
 County/District/Municipality: Ottawa-Carleton City/Town/Village: Carrp Province: Ontario Postal Code: \_\_\_\_\_  
 UTM Coordinates: NAD | 8 | 3 | 184266465023182 Magellano  
 GPS Unit Make: Magellano Model: \_\_\_\_\_ Mode of Operation:  Undifferentiated  Averaged  
 Differentiated, specify \_\_\_\_\_

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

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

**Annular Space/Abandonment Sealing Record**

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
<u>24.08</u>	<u>0.15</u>	<u>Holetlug</u>	
<u>0.15</u>	<u>0</u>	<u>Soil</u>	

**Results of Well Yield Testing**

Check box if after test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Cannot develop to sand-free state	Draw Down		Recovery	
	Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
<input type="checkbox"/> If pumping discontinued, give reason:  Pumping test method  Pump intake set at (Metres)  Pumping rate (Litres/min)  Duration of pumping _____ hrs + _____ min  Final water level end of pumping (Metres)  Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep  Recommended pump depth _____ Metres  Recommended pump rate (Litres/min)  If flowing give rate (Litres/min)	Static Level		Static Level	
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

**Method of Construction**

Cable Tool  Diamond  Public  Commercial  Not used  
 Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering  
 Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring  
 Rotary (Air)  Digging  Irrigation  Cooling & Air Conditioning  
 Air percussion  Boring  Industrial  
 Other, specify \_\_\_\_\_

**Water Use**

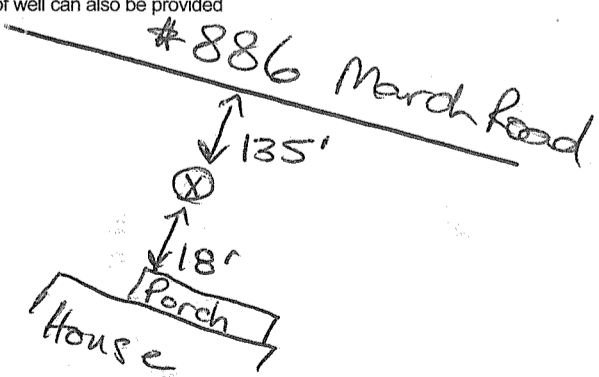
Water Supply  Dewatering Well  Observation and/or Monitoring Hole  
 Replacement Well  Abandoned, Insufficient Supply  Alteration (Construction)  
 Test Hole  Abandoned, Poor Water Quality  Other, specify \_\_\_\_\_  
 Recharge Well  Abandoned, other, specify \_\_\_\_\_

**Status of Well**

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

**Location of Well**

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



**Water Details**

Water found at Depth _____ Metres	Kind of Water
<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	
Water found at Depth _____ Metres	Kind of Water
<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	
Water found at Depth _____ Metres	Kind of Water
<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	

**Casing Used**

Galvanized  Galvanized  
 Steel  Steel  
 Fibreglass  Fibreglass  
 Plastic  Plastic  
 Concrete  Concrete

**Screen Used**

Galvanized  Galvanized  
 Steel  Steel  
 Fibreglass  Fibreglass  
 Plastic  Plastic  
 Concrete  Concrete

**Casing and Well Details**

Diameter of the Hole (Centimetres)  
 Depth of the Hole (Metres)  
 Wall Thickness (Metres)  
 Inside Diameter of the Casing (Metres)  
 Depth of the Casing (Metres)

**No Casing and Screen Used**

Open Hole  
 Disinfected?  Yes  No

**Ministry Use Only**

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

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD Well Contractor's Licence No.: 11119  
 Business Address (Street No./Name, number, RR): RR#1 Municipality: RICHMOND  
 Province: ONT Postal Code: K0A2Z0 Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): 6138382170 Name of Well Technician (Last Name, First Name): Desautniers  
 Well Technician's Licence No.: 74 Signature of Technician: \_\_\_\_\_ Date Submitted (yyy/mm/dd): 2007-09-08

Well Owner's Information

First Name, Last Name, E-mail Address, Well Constructed by Well Owner, Mailing Address (Street Number/Name, RR), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, GPS Unit Make, Model, Mode of Operation: Undifferentiated, Averaged, Differentiated, specify

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From, To

Annular Space/Abandonment Sealing Record

Table with columns: Depth Set at (Metres) From, To, Type of Sealant Used (Material and Type), Volume Placed (Cubic Metres)

Results of Well Yield Testing

Table with columns: Check box if after test of well yield, water was: Clear and sand free, Cannot develop to sand-free state, Draw Down (Time (Min), Water Level (Metres)), Recovery (Time (Min), Water Level (Metres)), Pumping test method, Pump intake set at (Metres), Pumping rate (Litres/min), Duration of pumping, Final water level end of pumping (Metres), Recommended pump type, Recommended pump depth, Recommended pump rate, If flowing give rate

Method of Construction

Water Use

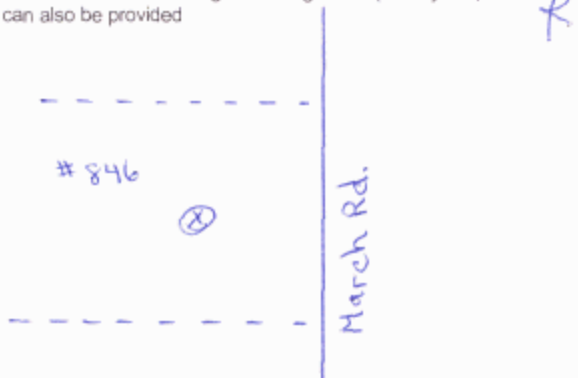
Method of Construction: Cable Tool, Rotary (Conventional), Rotary (Reverse), Rotary (Air), Air percussion, Other, specify; Water Use: Public, Commercial, Not used, Domestic, Municipal, Dewatering, Livestock, Test Hole, Monitoring, Irrigation, Cooling & Air Conditioning, Industrial, Other, specify

Status of Well

Status of Well: Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, specify, Observation and/or Monitoring Hole, Alteration (Construction), Other, specify

Location of Well

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



Water Details

Table with columns: Water found at Depth (Metres), Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals)

Casing Used

Screen Used

Casing and Well Details

Casing Used: Galvanized, Steel, Fibreglass, Plastic, Concrete; Screen Used: Galvanized, Steel, Fibreglass, Plastic, Concrete; Casing and Well Details: Diameter of the Hole (Centimetres), Depth of the Hole (Metres), Wall Thickness (Metres)

No Casing and Screen Used

No Casing and Screen Used: Open Hole, Disinfected? Yes, No; Casing and Well Details: Inside Diameter of the Casing (Metres), Depth of the Casing (Metres)

Ministry Use Only

Ministry Use Only: Audit No. (z 77317), Well Contractor No., Date Received (JUN 2 2008), Date of Inspection, Remarks

Date Well Completed (2008/3/3), Was the well owner's information package delivered? (No), Date the Well Record and Package Delivered to Well Owner (2008/3/3)

Well Contractor and Well Technician Information

Business Name of Well Contractor (Capital Water Supply Ltd.), Well Contractor's Licence No. (1 5 5 8), Business Address (Box 490, Stittsville), Province (Ontario), Postal Code (K2S1A6), Business E-mail Address (office@capitalwater.ca), Name of Well Technician (Miller, Stephen), Well Technician's Licence No. (0 0 9 7), Signature of Technician, Date Submitted (2008/3/3)

Measurements recorded in:  Metric  Imperial

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

**Well Owner's Information**

First Name <b>McKeown Contracting</b>		Last Name / Organization		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Mailing Address (Street Number/Name) <b>2878 Stagecoach Road</b>			Municipality <b>Greely</b>	Province <b>Ontario</b>	Postal Code <b>K0A2W0</b>	Telephone No. (inc. area code) <b>613 821 4808</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>856 March Road</b>		Township <b>Kanata</b>	Lot <b>11</b>	Concession <b>4</b>	
County/District/Municipality <b>Ottawa Carleton</b>		City/Town/Village <b>Kanata</b>	Province <b>Ontario</b>	Postal Code	
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	
NAD	83	18426730	5023125	Other	

**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

Annular Space				Results of Well Yield Testing						
Depth Set at (m/ft)	From	To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	After test of well yield, water was:		Draw Down		Recovery	
					<input type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
15.54	0		Grouted Bentonite 3/8" Hole Plug (12 bags)		<input type="checkbox"/>	<input type="checkbox"/>	Static Level			
					If pumping discontinued, give reason:		1		1	
					Pump intake set at (m/ft)		2		2	
					Pumping rate (l/min / GPM)		3		3	
					Duration of pumping _____ hrs + _____ min		4		4	
					Final water level end of pumping (m/ft)		5		5	
					If flowing give rate (l/min / GPM)		10		10	
					Recommended pump depth (m/ft)		15		15	
					Recommended pump rate (l/min / GPM)		20		20	
					Well production (l/min / GPM)		25		25	
					Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No		30		30	
							40		40	
							50		50	
							60		60	

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

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 (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>		Well Contractor's Licence No. <b>1 5 5 8</b>	
Business Address (Street Number/Name) <b>Box 490</b>		Municipality <b>Stittsville</b>	
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6138361766</b>		Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	
Well Technician's Licence No. <b>0097</b>	Signature of Technician and/or Contractor 	Date Submitted <b>20080908</b>	

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

Well owner's information package delivered	Date Package Delivered	Ministry Use Only	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y Y Y Y M M D D Date Work Completed <b>20080905</b>
Received		Received	

Measurements recorded in:  Metric  Imperial

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

**Well Owner's Information**

First Name <b>McKeown Contracting</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>2878 Stagecoach Road</b>	Municipality <b>Greely</b>	Province <b>Ontario</b>	Postal Code <b>K0A2W0</b>
		Telephone No. (inc. area code) <b>613 822 2599</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>860 March Road</b>	Township <b>Kanata</b>	Lot <b>11</b>	Concession <b>4</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Kanata</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 8 3 1 8 426698 5023143</b>	Municipal Plan and Sublot Number	Other	

**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

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
From: 9.44 To: 0	Grouted Bentonite 3/8" Hole Plug (5 bags)		

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft)  Pumping rate (l/min / GPM)  Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft)  If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft)  Recommended pump rate (l/min / GPM)  Well production (l/min / GPM)  Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
10		10		
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

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

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 (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information	
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>
Business E-mail Address <b>office@capitalwater.ca</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>
Date Submitted <b>20080908</b>	

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

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>2 0 0 8 0 9 0 5</b>	Date Work Completed Y Y Y Y M M D D <b>2 0 0 8 0 9 0 5</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84392</b> OCT 14 2008 Received
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Measurements recorded in:  Metric  Imperial

Page 1 of 1

Abandoned

Well Owner's Information

First Name, Last Name (Organization) City of Ottawa, E-mail Address, Mailing Address (Street Number/Name) 100 Constellation Crescent, Municipality Ottawa, Province Ontario, Postal Code K1G6S8, Telephone No. (inc. area code) 6135802400

Well Location

Address of Well Location (Street Number/Name) 895 March Rd., Township, Lot, Concession, County/District/Municipality, City/Town/Village Kanata, Province Ontario, Postal Code K2K1X7, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten notes: Static Water level at 21', Abandoned for Road Construction, GPS - Garmin Etrex.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Includes handwritten entries for Hole plug Sand, Hole plug, Sand, Clean Rock.

Method of Construction and Well Use table with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Not used, etc.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well. Includes handwritten note: Abandoned, other, specify Construction.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (m/ft) From, To, Status of Well.

Water Details and Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information table with fields for Business Name (Marathon Drilling Co. Ltd.), Business Address (6847 Hiram Dr.), Province (Ontario), Postal Code (K4P1A2), Business E-mail Address (jshell@marathondrilling.com), Bus. Telephone No. (6138220571), Name of Well Technician (Foster Eric), Well Technician's Licence No. (3284), Date Submitted (20100602).

Results of Well Yield Testing table with columns: Draw Down (Time (min), Water Level (m/ft)), Recovery (Time (min), Water Level (m/ft)). Includes handwritten data for static level and draw down.

Map of Well Location

Please provide a map below following instructions on the back.

Comments field with handwritten text: See Attached

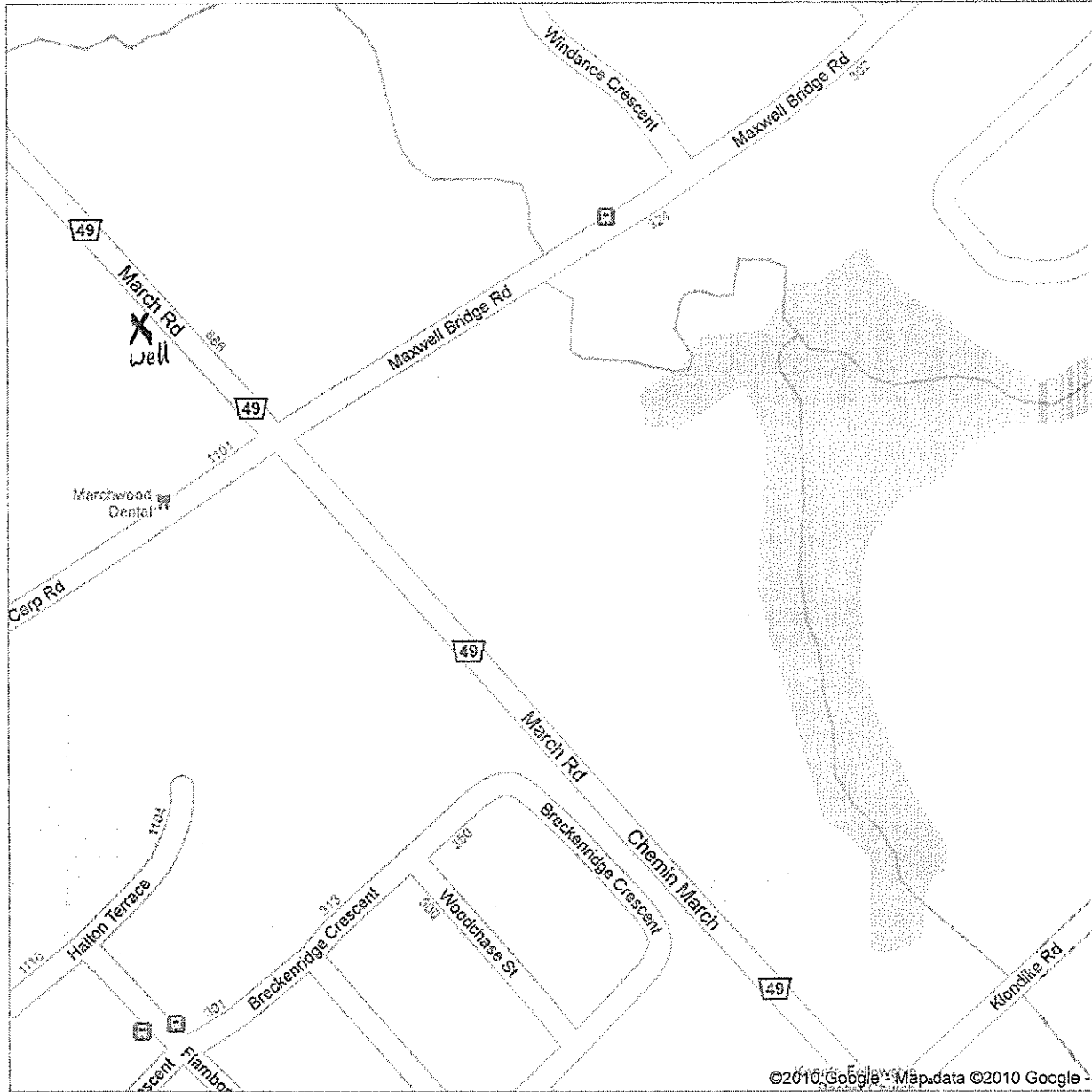
Well owner's information package delivered (Yes/No), Date Package Delivered, Date Work Completed, Ministry Use Only (Audit No. Z096933, Received DEC 22 2010).

157 1 1 1

Pri

Google maps  
Canada

Notes



C-6894  
Z096933.

DEC 22 2010

How can we help you

Search

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## Trending Now

- [Ontario Public Service careers](#)
- [OSAP: Ontario Student Assistance Program](#)
- [Government services](#)
- [Outdoors Cards, Licences and Draws](#)
- [Renew a licence plate sticker](#)
- [Change the address on identification cards](#)
- [Driving and Roads](#)

## Map: Well records

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

Full dataset is available in the [Open Data catalogue](#).

## Recommended for you

[How to use a Ministry of the Environment map](#)

[Technical documentation: Metadata record](#)

[Go Back to Map](#)

## Well ID

Well ID Number: 7201372

Well Audit Number: C21215

Well Tag Number: A130127

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

## Well Location

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

## Overburden and Bedrock Materials Interval

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General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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## Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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## Method of Construction & Well Use

Method of Construction	Well Use
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## Status of Well

### Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
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### Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
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## Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

## Results of Well Yield Testing

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

## Draw Down & Recovery

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

## Water Details

Water Found at Depth	Kind
----------------------	------

## Hole Diameter

Depth From	Depth To	Diameter
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154 Colonnade Road South  
Ottawa, Ontario  
Canada, K2E 7J5  
**Tel: (613) 226-7381**  
**Fax: (613) 226-6344**

October 1, 2019  
File: PE4760-HLUI

**City of Ottawa**  
110 Laurier Avenue W  
Ottawa, Ontario  
K1P 1J1

Geotechnical Engineering  
Environmental Engineering  
Hydrogeology  
Geological Engineering  
Materials Testing  
Building Science  
Archaeological Services

[www.patersongroup.ca](http://www.patersongroup.ca)

Subject: **Authorization Letter, HLUI Search  
Phase I-Environmental Site Assessment  
910 March Road, Ottawa ON**

Dear Sir or Madame,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

**Name of Company/Property Owner:** \_\_\_\_\_

**Name of Representative** \_\_\_\_\_

**Signature of Representative** \_\_\_\_\_

**Date** \_\_\_\_\_

## Mandy Witteman

---

**From:** Public Information Services <publicinformationsservices@tssa.org>  
**Sent:** October-02-19 3:13 PM  
**To:** Mandy Witteman  
**Subject:** RE: Search Records Request (PE4760)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good afternoon,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at [https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?\\_mid\\_=392](https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392) and email the completed form to [publicinformationsservices@tssa.org](mailto:publicinformationsservices@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.



### Sherees Thompson | Public Information Agent

Facilities  
345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel: +1-416-734-3363 | Fax: +1-416-231-6183 | E-Mail: [sthompson@tssa.org](mailto:sthompson@tssa.org)  
[www.tssa.org](http://www.tssa.org)



---

**From:** Mandy Witteman <MWitteman@Patersongroup.ca>  
**Sent:** October 2, 2019 11:10 AM  
**To:** Public Information Services <publicinformationsservices@tssa.org>  
**Subject:** Search Records Request (PE4760)

Good Morning,

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

March Rd: 910, 866, 846, 927, 905, 895  
Halton Terrace: 1054, 1083  
Maxwell Bridge Dr: 349

Thank you!

Cheers,

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

**paterongroup**  
**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

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# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

## POSITION

Intermediate Environmental Engineer

## EDUCATION

Carleton University  
M.A.Sc., Environmental Engineering, 2013  
B.Eng., Environmental Engineering, 2008

## MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)  
NSERC Industry R&D Scholarship

## EXPERIENCE

*2018 – Present*

**Paterson Group Inc.**

Consulting Engineers  
Geotechnical and Environmental Division  
Environmental Engineer

*2014 – 2015*

**Thurber Engineering Limited**

Oil Sand Tailings Group  
Tailings Engineer

*2009 – 2014*

**Carleton University**

Department of Civil & Environmental Engineering  
Research Engineer, Research Assistant & Teaching Assistant

*2008 – 2009*

**SLR Consulting Limited**

Contaminated Sites  
Junior Environmental Engineer

## SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston  
Remediation – National Capital Region, Saskatchewan  
Multi-lift and dry-stacking pilot programs – Northern Alberta  
Polymer amended oil sand tailings – Northern Alberta  
Hydraulic cut-off wall – Allen, Saskatchewan  
Cemented paste backfill systems – Northern Ontario

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