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## Phase I-Environmental Site Assessment

3432 Greenbank Road  
Ottawa, Ontario

Prepared For

Minto Communities

### 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)

May 25, 2020

Report: PE4940-1

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## EXECUTIVE SUMMARY

### Assessment

Paterson Group was retained by Minto Communities to conduct a Phase I-Environmental Site Assessment (ESA) for 3432 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the eastern portion of the Phase I Property was occupied by farm structures prior to 1960, while the remaining lands existed as agricultural fields. No potentially contaminating activities (PCAs) were identified during the historical review of the Phase I Property.

Historical land use of the neighbouring properties included farmsteads and agricultural land with no PCAs being identified within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property is occupied by two (2) barns and three (3) out-buildings. Cattle are housed in the western buildings (barns), while the remaining three (3) buildings are used to store farm equipment. An exterior 760-L above ground storage tank (AST) was noted on the exterior wall of the eastern-most building. The AST is equipped with a private fuel dispenser to refuel the on-site farm equipment. Storage of diesel fuel on-site is a potentially contaminating activity (PCA) that is considered to represent an area of potential environmental concern (APEC) on the Phase I Property. While there was no evidence of environmental impact, further environmental work would be required to confirm this.

The neighbouring properties to the north, east, and west are occupied by farmsteads, residences and/or agricultural lands. No PCAs were noted with the current use of the Phase I Property or the lands within the Phase I Study Area.

### Conclusion

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

## 1.0 INTRODUCTION

At the request of Minto Communities, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for 3432 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

Paterson was engaged to conduct this Phase I-ESA by Mr. Curtiss Scarlett from Minto Communities. The head office of Minto Communities is located at Suite #200, 180 Kent Street, Ottawa, Ontario. Mr. Scarlett can be reached by telephone at (613) 230-7051.

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

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



## 2.0 PHASE I PROPERTY INFORMATION

Address:	3432 Greenbank Road, Ottawa, Ontario
Legal Description:	Lot 12, Concession 3, Geographic Township of Nepean, City of Ottawa.
Location:	The Phase I Property is located on the west side of Greenbank Road, south of the Jock River, in the City of Ottawa, Ontario. The subject site is shown on Figure 1 – Key Plan, following the body of this report (Figures section).
Latitude and Longitude:	45° 15' 29.44" N, 75° 44' 27.89" W

### Site Description:

Configuration:	Irregular
Area:	23. 128 hectares (approximately)
Zoning:	DR – Development Reserved Zoning with the northern and eastern sides of the site designated as a flood plain.
Current Use:	The majority of the site is agricultural land occupied by five (5) out-buildings used for housing cattle and farm equipment.
Services:	The Phase I Property is situated in an area where private wells and septic systems are relied upon, although new development in the area is municipally serviced. It is expected that the Phase I Property will be provided with municipal services upon development.

### **3.0 SCOPE OF INVESTIGATION**

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

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject properties, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

## **4.0 RECORDS REVIEW**

### **4.1 General**

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

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

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

Based on the historical review, the 1960 to 1976 aerial photographs, the subject site has never been formally developed, however, several small barns have been present on-site as far back as 1960.

#### **Fire Insurance Plans**

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

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

City directories were reviewed in approximately ten (10) year intervals back to 2000 as no directories were available prior to the City's amalgamation. The subject site was not listed in the directories.

Neighbouring properties were listed as residential. There were no listings associated with potentially contaminating activities.

#### **Chain of Title**

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

#### **Plan of Survey**

A survey plan was not provided for review as part of this assessment.

## 4.2 Environmental Source Information

### **Environment Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 11, 2020. No listings for the subject site or properties within the study area were identified in the NPRI database.

### **PCB Inventory**

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

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

An ERIS search was requested in lieu of a MECP Freedom of Information (FOI) request pertaining to all environmental conditions, permits, certificates of approval, compliance reports, fuel oil storage tanks, spills and waste generators regarding the subject site and neighbouring lands.

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

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

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

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I Study Area.

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

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

## **Areas of Natural Significance**

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on May 11, 2020. The search did not reveal any areas of natural significance within the Phase I Study Area.

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

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on May 15, 2020, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

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

A search request for the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. A response had not been received prior to issuing this report. A copy of the response will be forwarded to the client once it is received.

## **Environmental Risk Information Services (ERIS) Report**

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within a 250 m search radius.

According to the ERIS report, no pertinent records were identified for the Phase I Property or the Study Area, which is expected, as the Phase I Property is situated in a rural area consisting of farmland that has been partially developed, primarily with new residential developments. A copy of the ERIS report is included in Appendix 2.

## **4.3 Physical Setting Sources**

### **Aerial Photographs**

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

1960            The subject site is predominately agricultural fields with several farm buildings situated in the northeast corner of the lot. Neighbouring

- lands are occupied by farmsteads and agricultural fields. Greenbank Road is present at this time.
- 1966      No significant changes are apparent on the subject site or the surrounding lands.
- 1973      The subject site and neighbouring lands appear unchanged from the previous photograph.
- 1987      No significant changes are apparent on the subject site or the surrounding lands.
- 1999      The subject site and neighbouring lands appear unchanged from the previous photograph.
- 2011      The subject site remains unchanged from the previous photograph. Surrounding lands further north, east and south are being developed with residential subdivisions.
- 2017      No significant changes are apparent on the subject site or the surrounding lands.

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

### **Topographic Maps**

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a north and easterly direction towards the Jock River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

### **Physiographic Maps**

The Ontario Geological Survey publication ‘The Physiography of Southern Ontario, Third Edition’ was reviewed as a part of this assessment. According to the publication, the site is situated within the Ottawa Clay Plain physiographic region.

## **Geological Maps**

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock in the area of the site consists of limestone and dolomite of the Gull River Formation and Dolomite of the Oxford Formation. Based on the maps, the thickness of overburden ranges from 5 to 25 m and consists of till and marine deposits.

## **Water Well Records**

A well record search was conducted on May 11, 2020 for all drilled wells within 250 m of the subject site. The search returned thirty-seven (37) well records, of which 21 were domestic wells drilled between 1954 to 2017; 5 abandoned wells from 2007 to 2017; and 11 monitoring wells drilled in 2010 and 2017.

One domestic well was identified on the Phase I Property, drilled in 1987. Based on the well record, the stratigraphy consisted of clay and overworked soil (hardpan) with some stones, underlain by limestone. The well was drilled to a depth of approximately 189.8 m below the ground surface, with bedrock encountered at approximately 7.3 m below grade.

The domestic wells located within the Phase I Study Area were drilled between 1954 to 2010 to depths ranging from 12 to 67 m below the ground surface. All wells were drilled to fresh water.

The abandoned well records were identified for properties further northeast and south of the Phase I Property. It is expected that these decommissioned well records were associated with the new residential developments in the area.

Eleven (11) monitoring wells were identified further northeast on Jockvale Road, approximately 220 m away from the subject land. These wells were identified as part of a Phase II ESA conducted by AMEC. No other pertinent information or concerns were noted during the review of these well records. A copy of the well records has been included in Appendix 2.

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

The Jock River borders the eastern and northern property boundaries running in a north-south direction and east-west direction, respectively, and overlain by a designated flood plain. No areas of natural significance are known to exist within the 250 m search radius.

## **5.0 INTERVIEWS**

### **Property Owner Representative**

Mr. Curtiss Scarlett of Minto Communities was interviewed as part of this assessment via email on May 12, 2020. According to Mr. Scarlett, the subject land has always been used for agricultural purposes and is occupied by five (5) out-buildings used to store farm equipment and cattle during the winter season. The site has never been formally developed for residential purposes. Mr. Scarlett is unaware of any potential environmental concerns with respect to the subject property.

## **6.0 SITE RECONNAISSANCE**

### **6.1 General Requirements**

The site visit was conducted on May 13, 2020. Weather conditions were sunny with a temperature of approximately 14°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

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

#### **Buildings and Structures**

Two (2) barns and three (3) out-buildings occupy the site. Cattle are housed in the farthest buildings to the west, while the remaining three (3) buildings are used to store farm equipment and bales of hay. The out-buildings are constructed with either a rock floor foundation or poured concrete. The barns are finished in wood, while the out-buildings are finished in metal cladding. No other buildings are present on the Phase I Property.

#### **Site Features**

The northern and eastern property boundaries of the Phase I Property is situated in a designated floodplain associated with the Jock River.



The majority of the site is vacant agricultural land with the Jock River bordering the eastern property boundary. The site is below the grade of Greenbank Road with the eastern portion of the land somewhat undulating, while the remaining land is relatively flat. Site drainage occurs primarily through infiltration.

The topography of the site slopes gently down in an easterly and northerly direction towards the Jock River.

One domestic groundwater well was observed on the western side of the eastern-most building. The well was used for livestock purposes.

A pole mounted transformer was noted on the southeastern property boundary. No signs of staining or stressed vegetation was observed in the immediate area. An exterior 200 Gal (or 760 -L) above ground storage tank (AST) containing diesel fuel was observed on the west wall of the eastern-most building. The AST is presently leased from Petro Canada and is used for refuelling on-site farm equipment. No odour, signs of stained or stressed vegetation were noted at the time of the visit. No hazardous materials, chemicals or waste were noted on-site.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit.

### **Subsurface Structures and Utilities**

Above ground electricity is provided on-site. It is not expected that there are subsurface structures present 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 visit.

Land use adjacent to the subject site is as follows:

- North - Agricultural land, followed by Jock River;
- South - Vacant lands under construction, followed by a new residential development;
- East - Jock River followed by residential dwellings; and
- West - Culvert and land under construction, followed by vacant lands.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and agricultural purposes. No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE4940-2 – Surrounding Land Use Plan.

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

### **7.1 Land Use History**

Based on the available historical records, the Phase I Property was occupied by out-buildings/barns prior to 1960 and has always been used for agricultural purposes.

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

Based on the site visit, the diesel AST was identified as an on-site potentially contaminating activity (PCA) that results in an area of potential environmental concern (APEC) on the Phase I Property, as defined by Table 2 of O.Reg. 153/04, Column A:

- APEC 1 – Resulting in “*Gasoline and Associated Products Storage in Fixed Tanks,*” associated with the diesel fuel tank on the eastern side of the Phase I Property (PCA 28).

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

Based on the APEC identified on the Phase I Property, the contaminants of potential concern (CPCs) are:

- 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 the information from the Geological Survey of Canada, the overburden in the area consists of plain till and marine deposits with a drift thickness ranging from 5 to 25 m. Bedrock in the area consists of limestone and dolomite of the Gull River Formation and Dolomite of the Oxford Formation.

Based on the domestic well record for the Phase I Property, the stratigraphy consists of clay and overworked soil with some stones, underlain by limestone. Bedrock was reached at approximate 7.3 m below the ground surface.

Groundwater flow is interpreted to be in a northerly and/or easterly direction towards Jock River.

### **Existing Buildings and Structures**

The eastern portion of the Phase I Property is occupied by two (2) barns and three (3) out-buildings. Cattle are housed in the western buildings (barns), while the remaining three (3) buildings are used to store farm equipment and bales of hay. No other structures are present on the Phase I Property.

### **Subsurface Structures and Utilities**

The Phase I Property is situated in an area where private wells and septic systems are relied upon, although new development in the area is municipally serviced. It is expected upon development, the site will be municipally serviced. There are no underground utilities with the exception of the domestic well used for livestock purposes. Above ground electricity entering from Greenbank Road services the Phase I Property.

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

The Jock River borders the eastern and northern property boundaries running in a north-south direction and east-west direction, respectively, and overlain by a designated flood plain. No areas of natural significance are known to exist within the 250 m search radius.

### **Drinking Water Wells**

The Phase I Property is situated in an area where domestic wells are relied upon. One domestic well was located on-site, although new development in the area is

municipally serviced and it is expected upon development the site will be municipally serviced as well.

### **Neighbouring Land Use**

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

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

As per Section 7.1 of this report, one PCA was considered to result in an APEC on the Phase I Property:

- APEC 1 – Resulting in “*Gasoline and Associated Products Storage in Fixed Tanks*,” associated with the diesel fuel tank on the eastern side of the Phase I Property (PCA 28).

### **Contaminants of Potential Concern**

As per Section 7.1, the CPCs identified on the Phase I Property are:

- 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 is one on-site PCA that has resulted in an APEC on the Phase I Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

## 8.0 CONCLUSIONS

### Assessment

Paterson Group was retained by Minto Communities to conduct a Phase I-Environmental Site Assessment (ESA) for 3432 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the eastern portion of the Phase I Property was occupied by farm structures prior to 1960, while the remaining lands existed as agricultural fields. No potentially contaminating activities (PCAs) were identified during the historical review of the Phase I Property.

Historical land use of the neighbouring properties included farmsteads and agricultural land with no PCAs being identified within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property is occupied by two (2) barns and three (3) out-buildings. Cattle are housed in the western buildings (barns), while the remaining three (3) buildings are used to store farm equipment. An exterior 760-L above ground storage tank (AST) was noted on the exterior wall of the eastern-most building. The AST is equipped with a private fuel dispenser to refuel the on-site farm equipment. Storage of diesel fuel on-site is a potentially contaminating activity (PCA) that is considered to represent an area of potential environmental concern (APEC) on the Phase I Property. While there was no evidence of environmental impact, further environmental work would be required to confirm this.

The neighbouring properties to the north, east, and west are occupied by farmsteads, residences and/or agricultural lands. No PCAs were noted with the current use of the Phase I Property or the lands within the Phase I Study Area.

### Conclusion

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

## 9.0 STATEMENT OF LIMITATIONS

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

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

Permission and notification from Minto Communities and Paterson 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:

- Minto Communities
- Paterson Group

## 10.0 REFERENCES

### **Federal Records**

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

### **Provincial Records**

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

### **Municipal Records**

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.  
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.  
geoOttawa: City of Ottawa electronic mapping website.  
City of Ottawa Historical Land Use Inventory (HLUI) Database

### **Local Information Sources**

Personal Interviews.

### **Public Information Sources**

Google Earth.  
Google Maps/Street View.

### **Private Information Source**

ERIS Report

# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4940-1 – SITE PLAN**

**DRAWING PE4940-2 – SURROUNDING LAND USE PLAN**



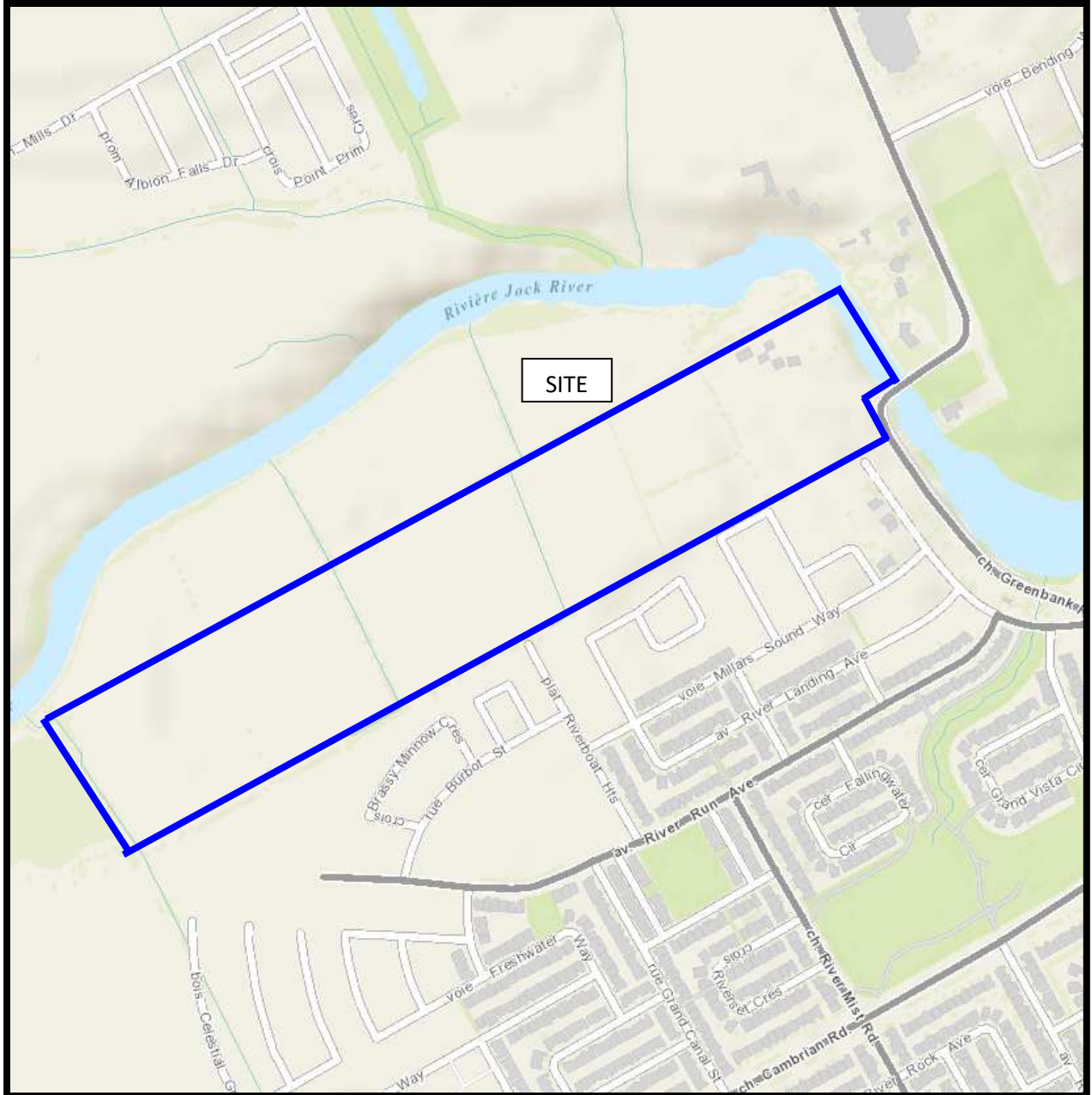


FIGURE 1  
KEY PLAN

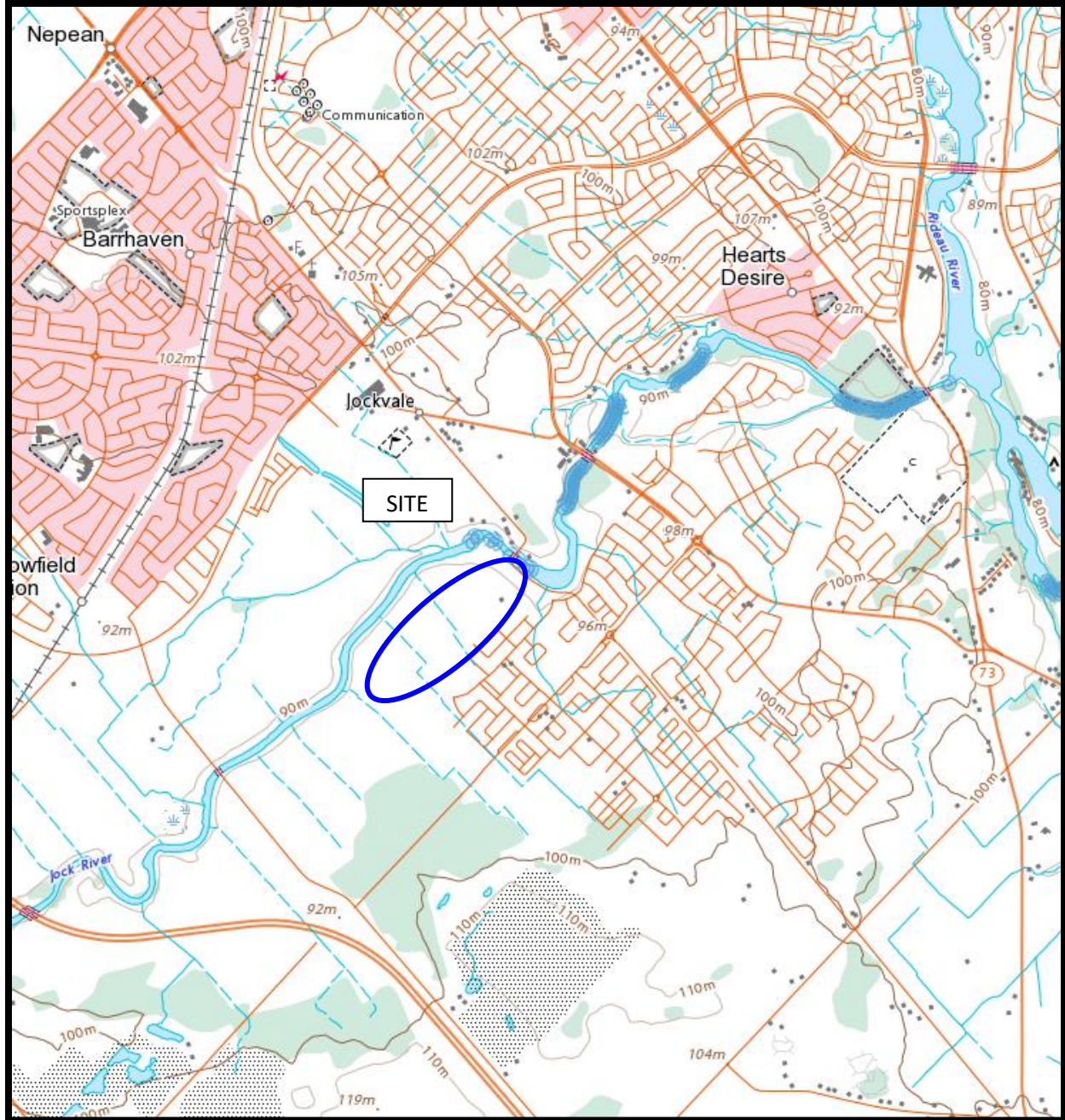
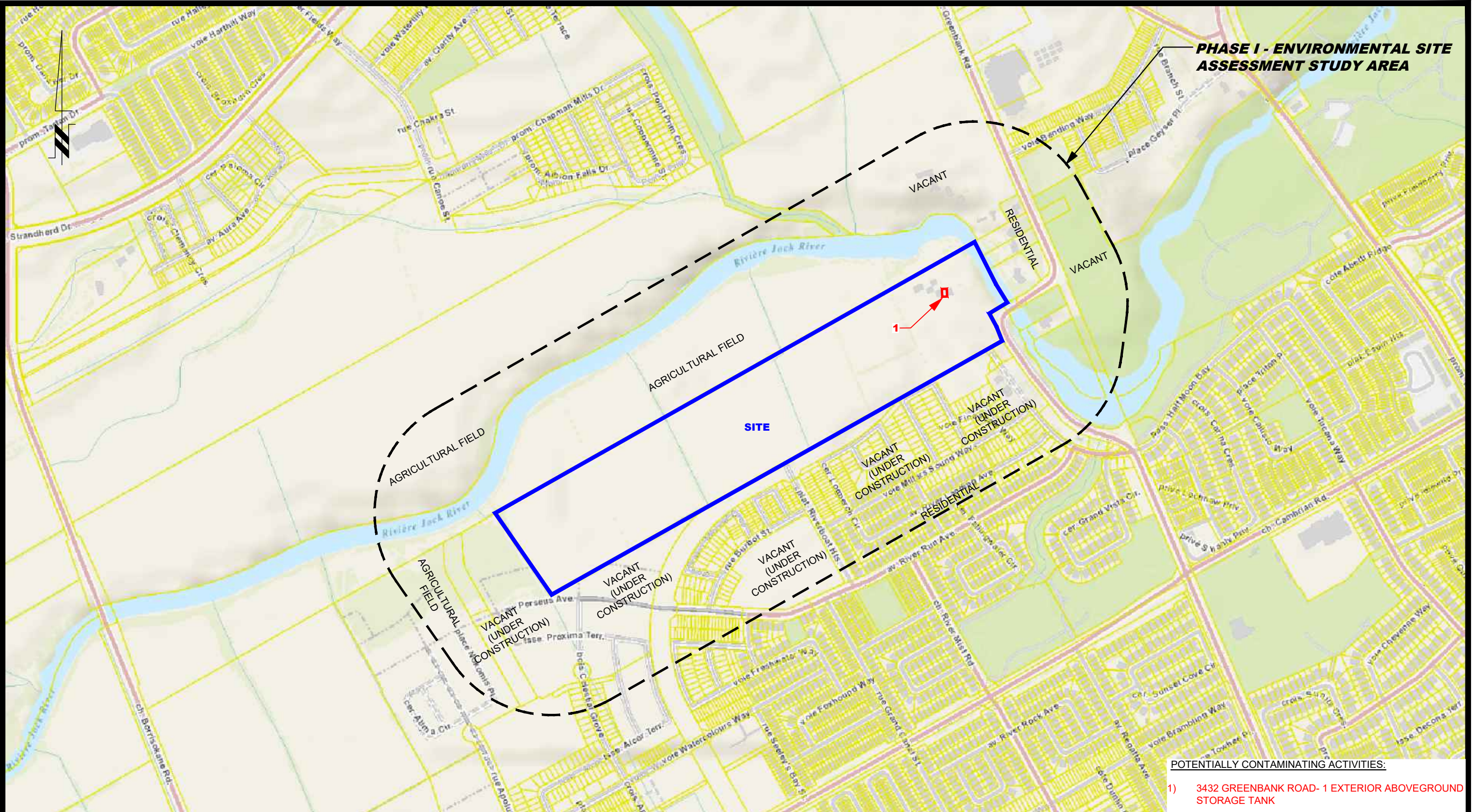


FIGURE 2  
TOPOGRAPHIC MAP









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

- POTENTIALLY CONTAMINATING ACTIVITIES:
- 1) 3432 GREENBANK ROAD- 1 EXTERIOR ABOVEGROUND STORAGE TANK

**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

**MINTO COMMUNITIES**  
**PHASE I - ENVIRONMENTAL SITE ASSESSMENT**  
**3432 GREENBANK ROAD**

**OTTAWA, ONTARIO**

Title: **SURROUNDING LAND USE PLAN**

Scale:	1:7500	Date:	05/2020
Drawn by:	YA	Report No.:	PE4940-1
Checked by:	MW	Dwg. No.:	<b>PE4940-2</b>
Approved by:	MSD	Revision No.:	

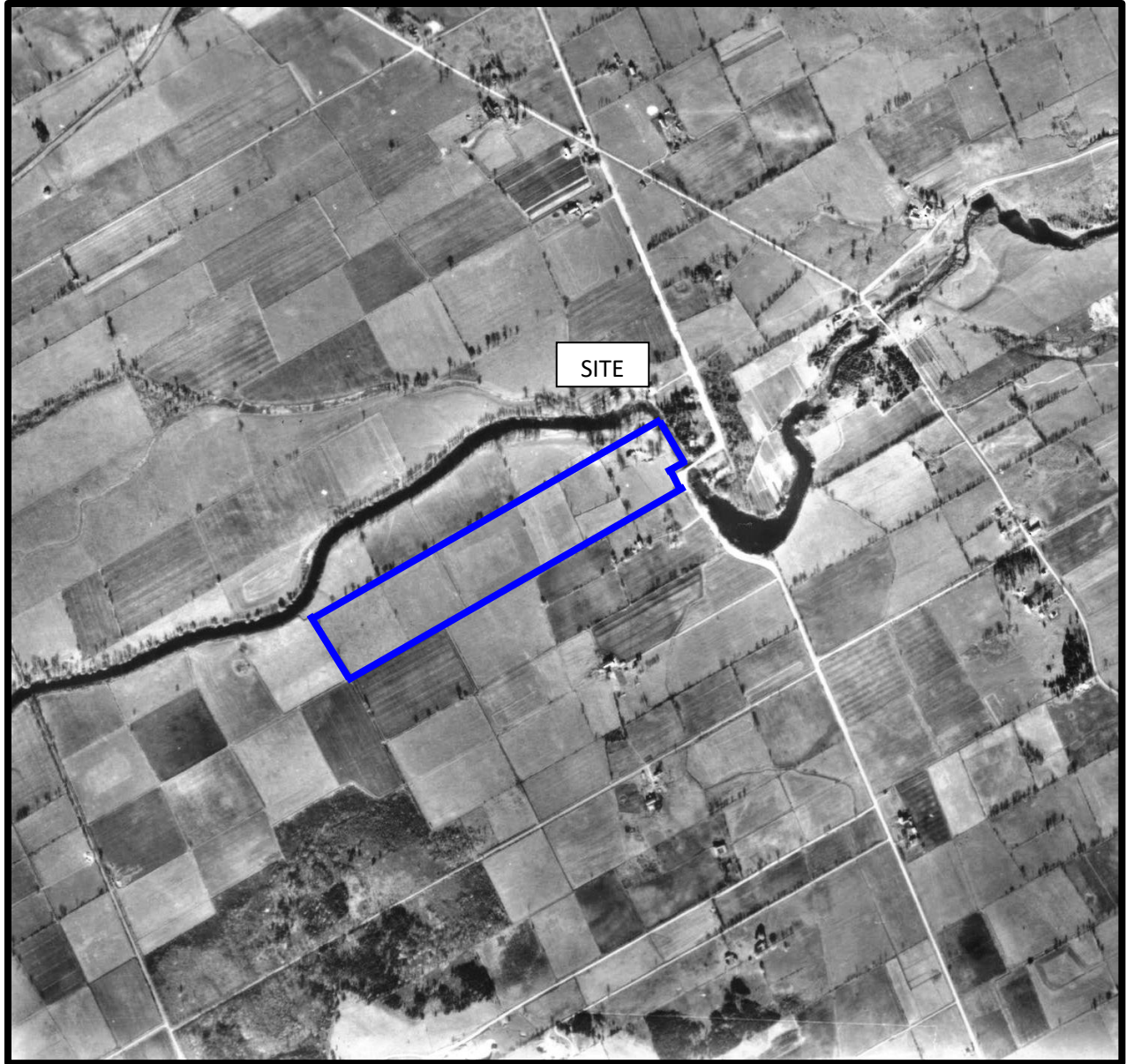
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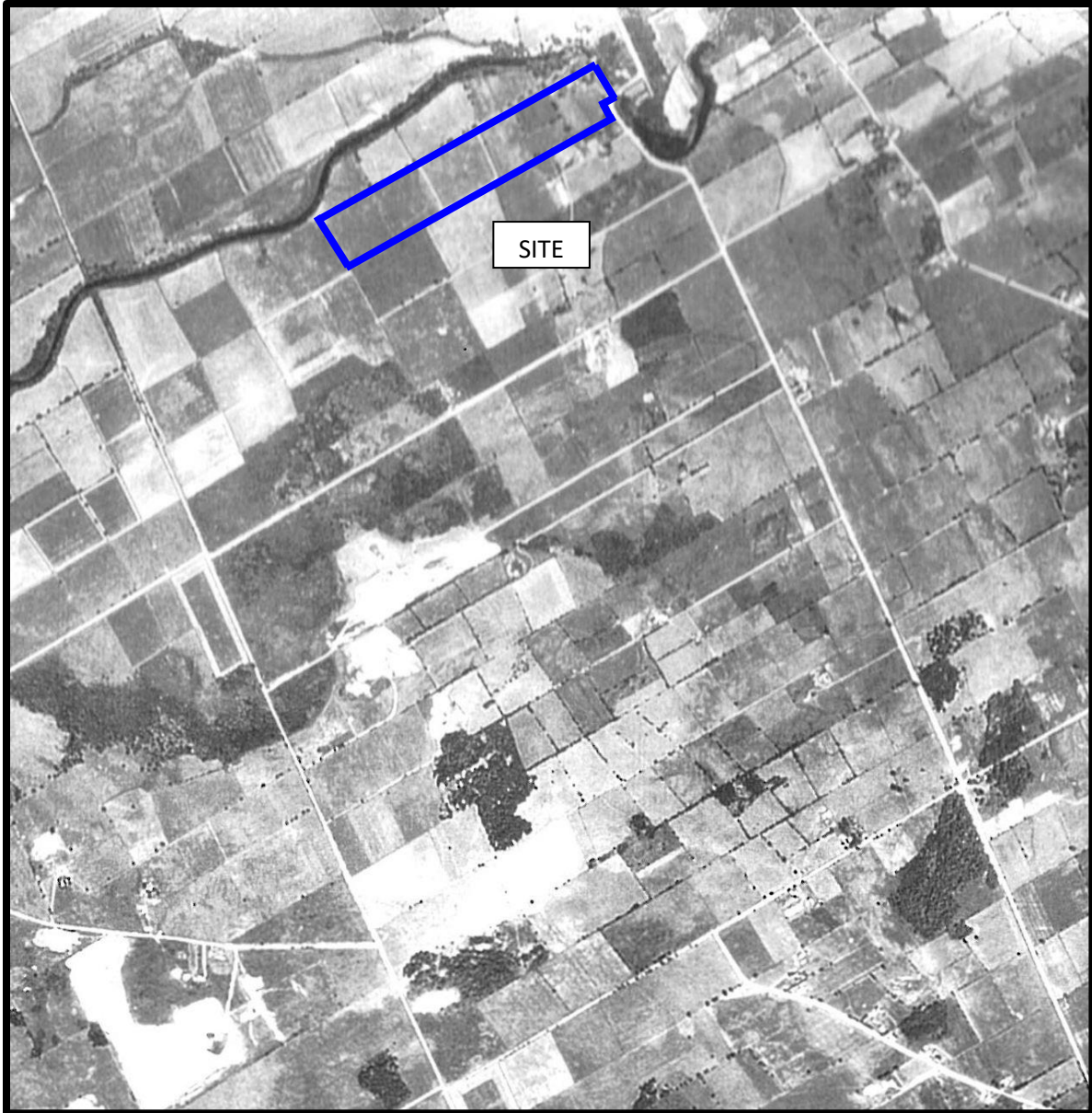
# **APPENDIX 1**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**

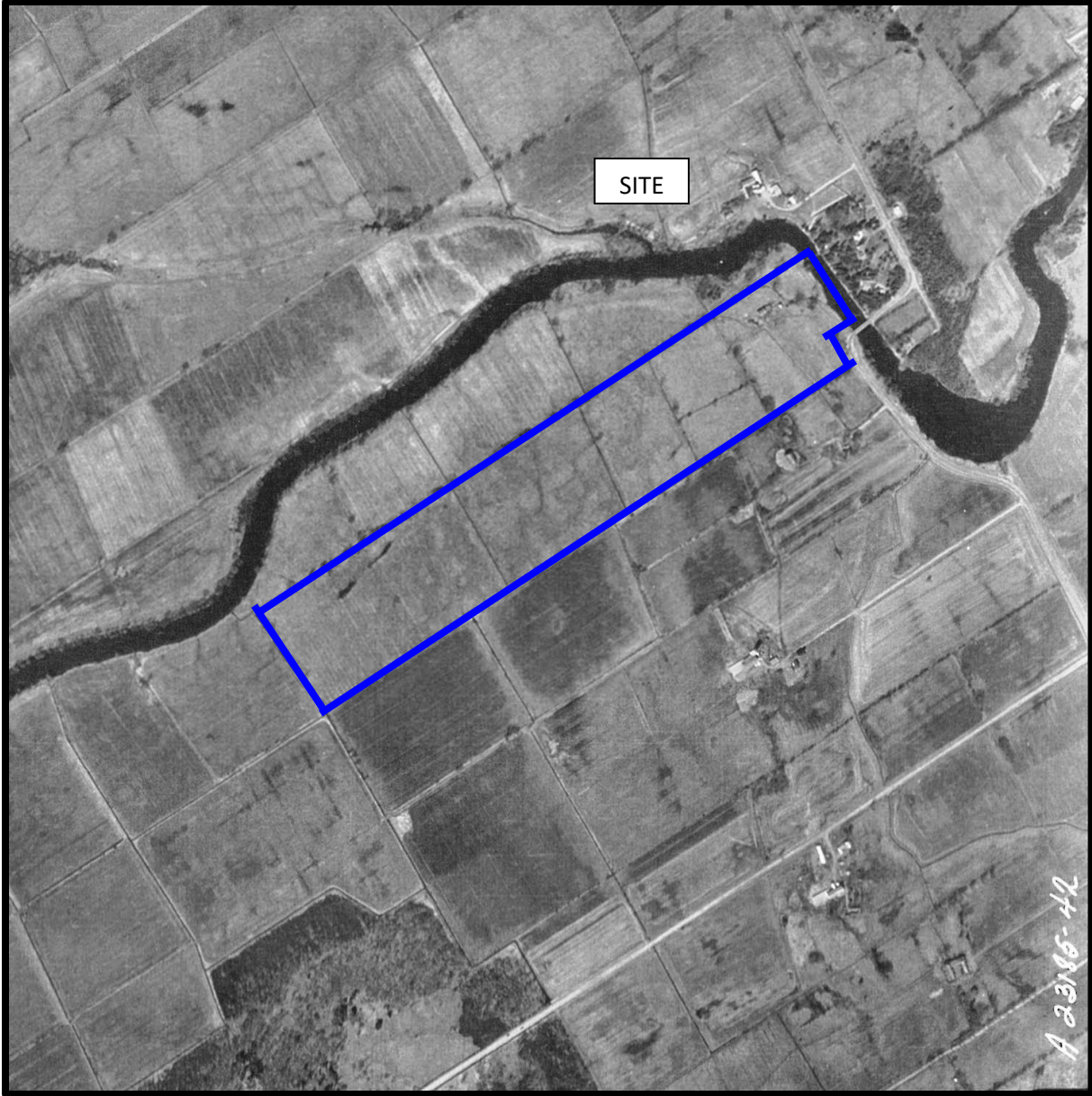


AERIAL PHOTOGRAPH  
1960



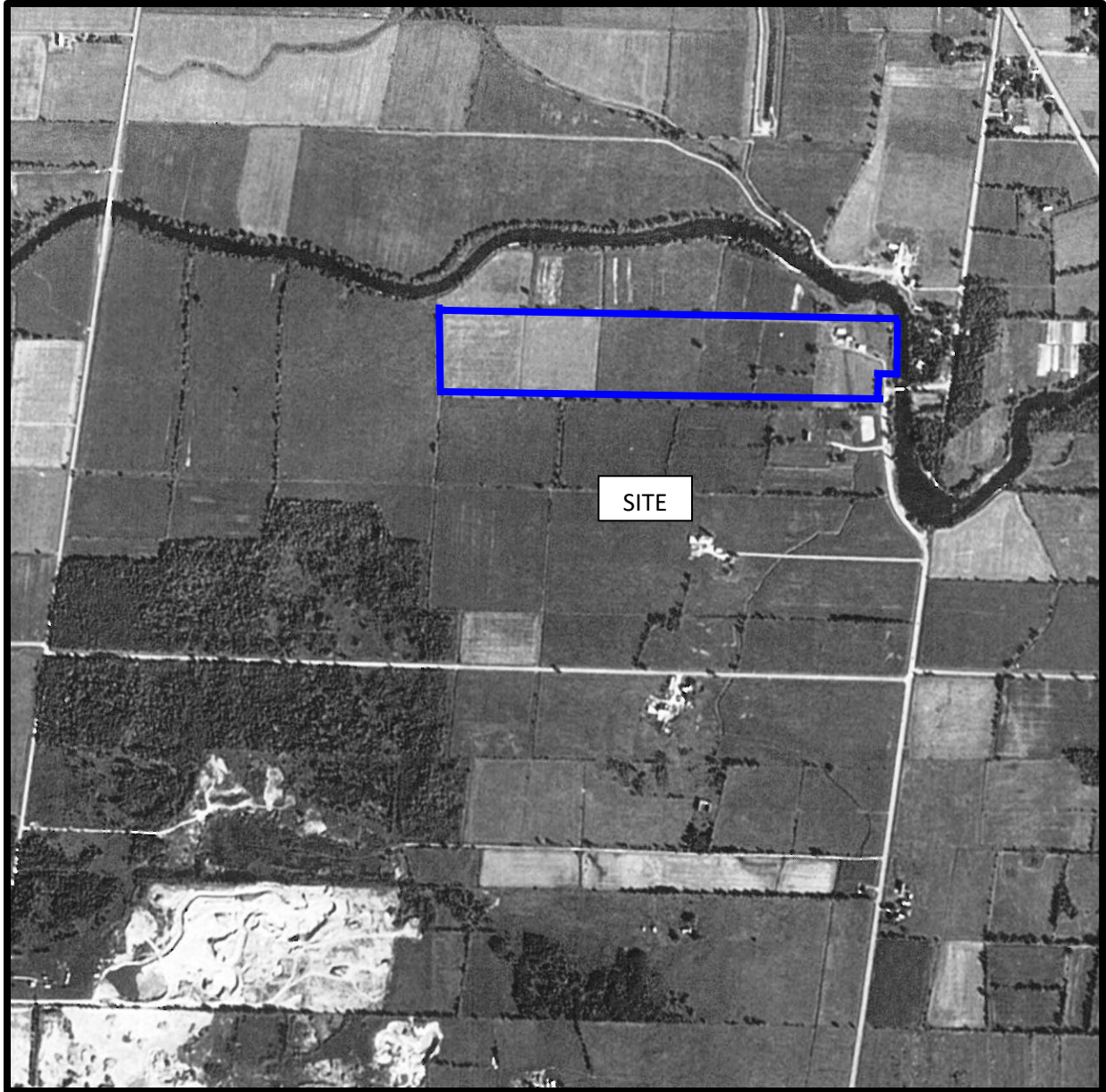
AERIAL PHOTOGRAPH  
1966





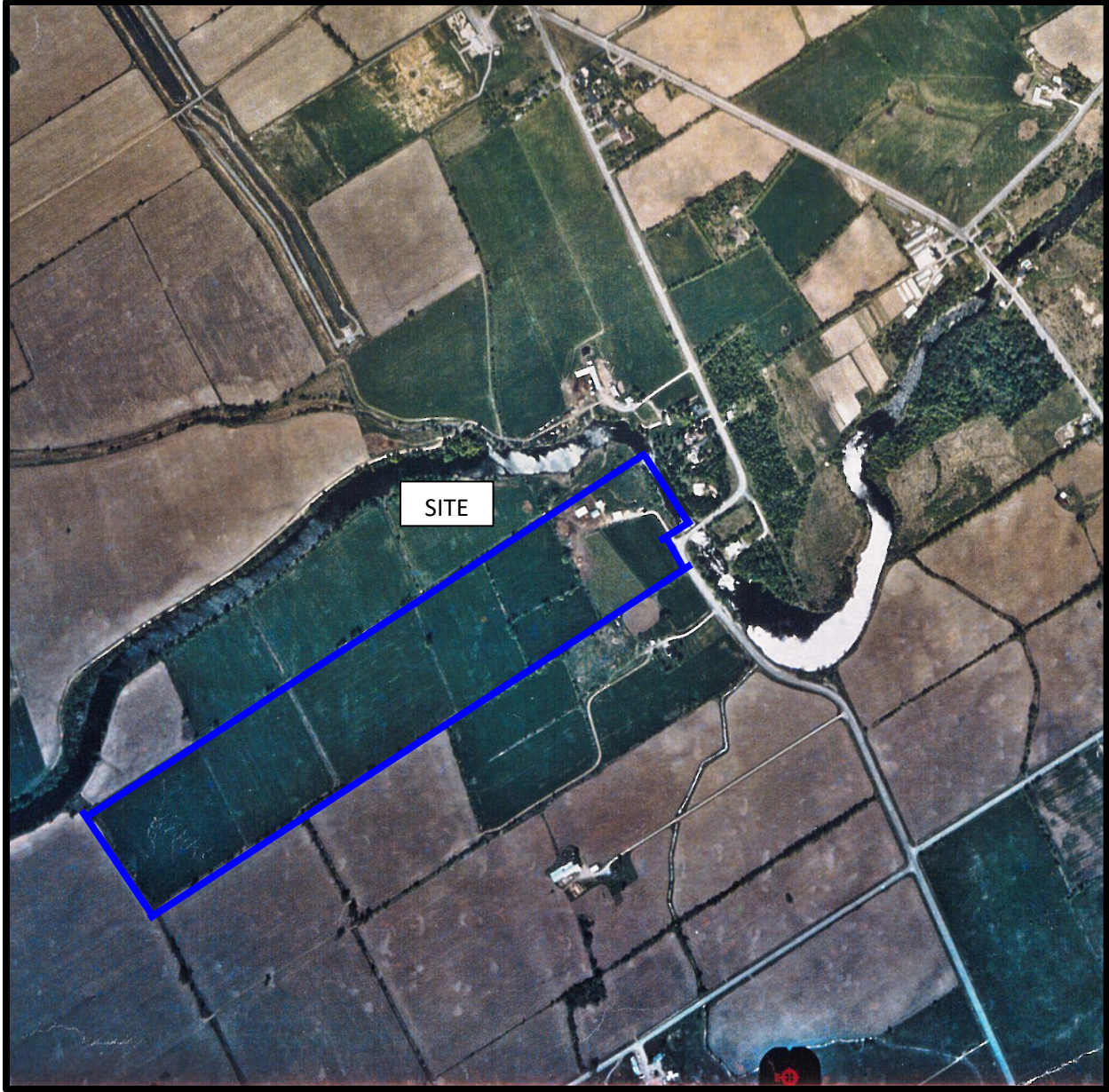
AERIAL PHOTOGRAPH  
1973





AERIAL PHOTOGRAPH  
1987





AERIAL PHOTOGRAPH  
1999





AERIAL PHOTOGRAPH  
2011



SITE

AERIAL PHOTOGRAPH  
2017



## Site Photographs

PE4940

3432 Greenbank Road, Ottawa, ON

May 13, 2020



Photograph 1: View of the eastern portion of the Phase I Property, taken from the southcentral side of the Phase I Property, looking towards Greenbank Road.



Photograph 2: View of the southern west side of the Phase I Property, looking west.

## Site Photographs

PE4940

3432 Greenbank Road, Ottawa, ON

May 13, 2020



Photograph 2: View of the outbuildings (eastern and northern buildings), exterior diesel AST, domestic well and farm equipment, looking north.



Photograph 3: View of the two (2) barns (western buildings) on the Phase I Property, looking north.

# **APPENDIX 2**

**MECP WELL RECORDS**

**HLUI RESPONSE**

**TSSA RESPONSE**

**ERIS REPORT**









JTM

18-441960

Con U R.F.



4R 570 11 8 60

Lot 12

CODED

1509671

WATER RESOURCES DIVISION

JUN 13 1968

ONTARIO WATER RESOURCES COMMISSION

3

lev. 57 0306

The Ontario Water Resources-Commission Act

Basin 12

# WATER WELL RECORD

County or District Carleton

Township, Village, Town or City Nepean

Con. 2 R.F. Lot 12

Date completed 15 May 1968  
(day month year)

ss. 1155 ~~77~~ Normandy Cres.  
Ottawa

### Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 38'

Type of screen .....

Length of screen .....

Depth to top of screen .....

Diameter of finished hole 5"

### Pumping Test

Static level 11'

Test-pumping rate 7 G.P.M.

Pumping level 75'

Duration of test pumping 1 hr

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 100' 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 with boulders</u>	<u>0'</u>	<u>12'</u>	<u>145</u>	<u>fresh</u>
<u>sand</u>	<u>12'</u>	<u>26'</u>	<u>167</u>	<u>"</u>
<u>hardpan</u>	<u>26'</u>	<u>33'</u>		
<u>hardpan &amp; boulders</u>	<u>33'</u>	<u>35'</u>		
<u>limestone</u>	<u>35</u>	<u>169</u>		

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr.  
Ottawa Ont.

Licence Number 2857

Name of Driller or Borer H Mains

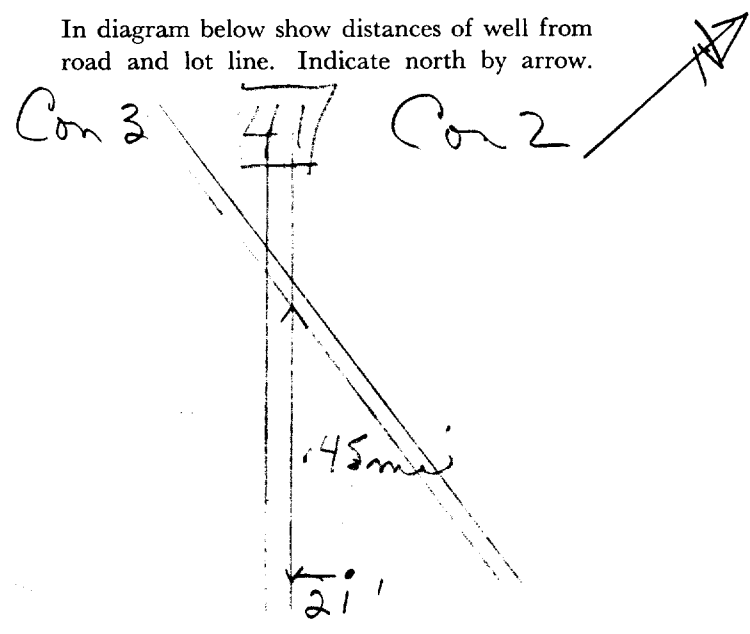
Address .....

Date May 16 1968

Walter Kavanagh  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



15M

1812 441920 CODED

RE  
Con III  
Lot 12



1510110-1  
3 9 P

41R 5101117601

The Ontario Water Resources Commission Act

lev. 151R 103012

# WATER WELL RECORD

Division of WATER RESOURCES

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

Con. 3 RF Lot PT 12 Date completed 26 May 1969  
(day month year)

Owner [Redacted] Address 102 Starwood Ottawa

Casing and Screen Record		Pumping Test	
Inside diameter of casing	<u>2</u>	Static level	<u>7</u>
Total length of casing	<u>40</u>	Test-pumping rate	<u>15</u> G.P.M.
Type of screen	<u>-</u>	Pumping level	<u>20</u>
Length of screen	<u>-</u>	Duration of test pumping	<u>4 hrs</u>
Depth to top of screen	<u>-</u>	Water clear or cloudy at end of test	<u>Clear</u>
Diameter of finished hole	<u>2</u>	Recommended pumping rate	<u>8</u> G.P.M.
		with pump setting of	<u>25</u> feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>Sandy Clay with Boulders</u>	<u>0</u>	<u>4</u>	<u>101</u>	<u>Fresh</u>
<u>Grey sand with Boulders</u>	<u>4</u>	<u>12</u>		
<u>Grey fine sand</u>	<u>12</u>	<u>26</u>		
<u>Coarse Gravel Sand &amp; Boulders</u>	<u>26</u>	<u>37</u>		
<u>Soft Limestone</u>	<u>37</u>	<u>103</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 F.R. COSSETTE

Address 1510 BASELINE RD.  
OTTAWA ONT

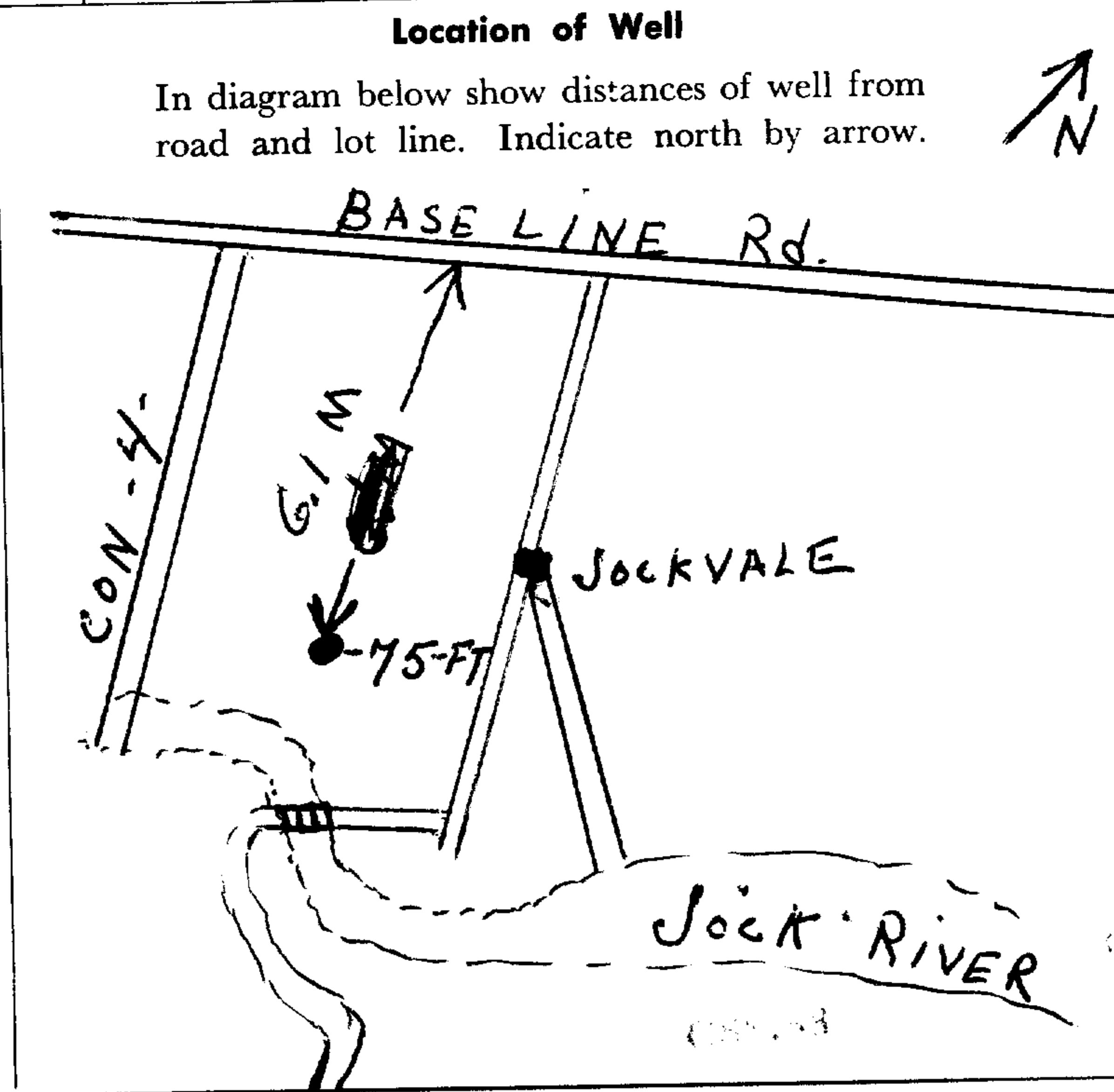
Licence Number 3182

Name of Driller or Borer Same

Address Same

Date May 26-1969

F.R. Cossette  
(Signature of Licensed Drilling or Boring Contractor)



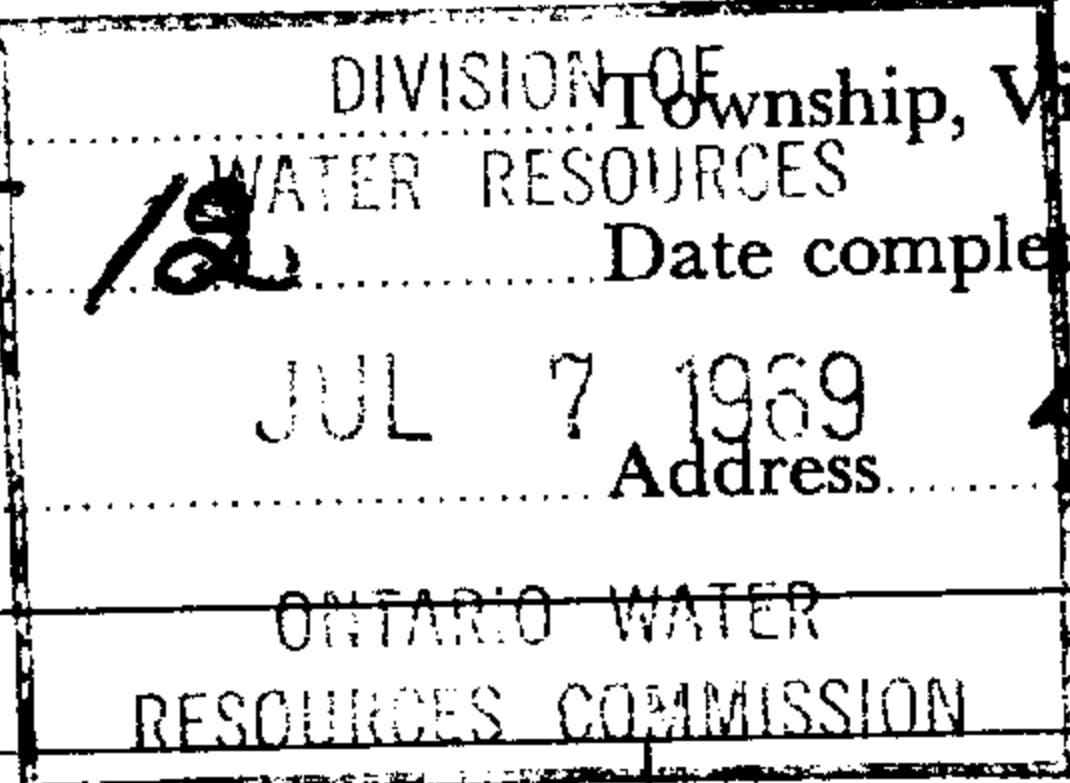
1510111  
3 9



The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District: 125T Carleton  
 Township, Village, Town or City: Nepean  
 Con.: 3 RF Lot: PT 12 Date completed: 23 May 1969  
 (day month year)  
 Owner: [Redacted] Address: 160 ATHLONE OTTAWA



### Casing and Screen Record

Inside diameter of casing: 2  
 Total length of casing: 37  
 Type of screen: -  
 Length of screen: -  
 Depth to top of screen: -  
 Diameter of finished hole: 2

### Pumping Test

Static level: 6  
 Test-pumping rate: 15 G.P.M.  
 Pumping level: 20  
 Duration of test pumping: 10 hrs  
 Water clear or cloudy at end of test: Clear  
 Recommended pumping rate: 8 G.P.M.  
 with pump setting of 20 feet below ground surface

### Well Log

#### Overburden and Bedrock Record

Sandy Clay with Boulders  
Sand & Boulders  
Fine sand  
Coarse gravel & Boulders  
Soft Limestone

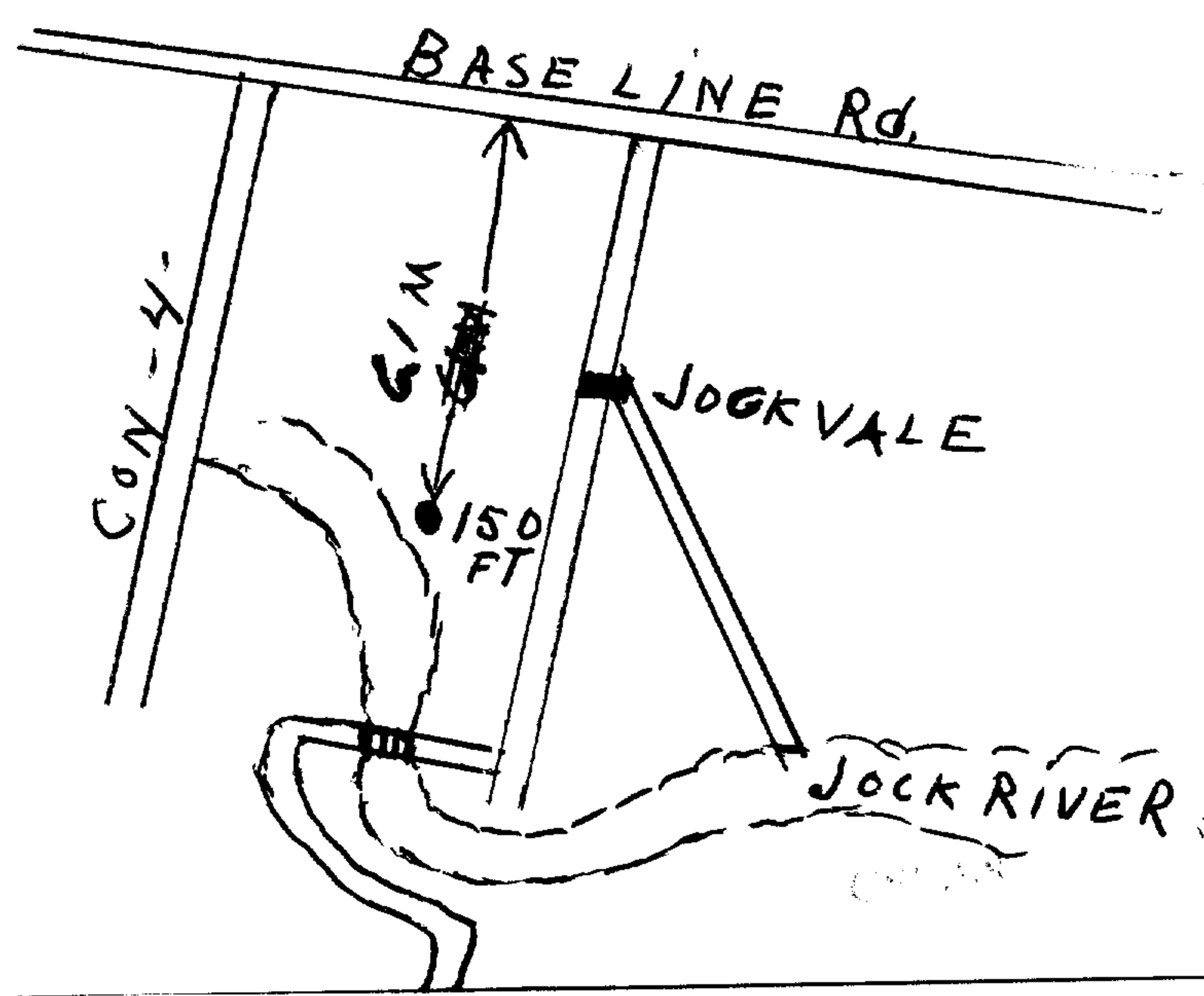
### Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	9	105	Fresh
9	22		
22	28		
28	33		
33	107		

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: F.R. COSSETTE  
 Address: 1510 BASELINE RD. OTTAWA ONT  
 Licence Number: 3182  
 Name of Driller or Borer: Same  
 Address: Same  
 Date: May 23 - 1969  
F. R. Cossette  
 (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.













## 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 Help Desk (Toll Free) at 1-888-396-9355.
- **All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.**
- Please print clearly in blue or black ink only.

## Ministry Use Only

Address of well Location (County/District/Municipality) Ottawa Carleton				Township Nepean		Lot 11	Concession 3
RR#/Street Number/Name 3508 Greenbank Road				City/Town/Village Nepean		Site/Compartment/Block/Tract etc.	
GPS Reading	NAD 83	Zone 18	Easting 441741	Northing 5011331	Unit Make/Model Garmin	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify	

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

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
Brown	hardpan	boulders	packed	0	3.65
grey	hardpan		packed	3.65	12.19
grey	sand & gravel			12.19	13.71
grey	limestone	dark layers	mud	13.71	52.72

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	16.45	22.75						Submersible				
16.45	52.72	15.23	15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	+ .60	16.45	Pump intake set at - (metres) 30.47	Static Level 5.57			
Water Record			Screen				Pumping rate - (litres/min) 54.6					
Water found at Metres	Kind of Water		Outside diam		Slot No.			Duration of pumping 2 hrs + 30 min				
51.50	NOT TESTED							Final water level end of pumping 12.98 metres	3	9.21	3	8.27
			No Casing or Screen				Recommended pump type. <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep					
			15.23	<input checked="" type="checkbox"/> Open hole				Recommended pump depth. 22.85 metres	4	9.46	4	8.04
After test of well yield, water was							Recommended pump rate. 45.5 (litres/min)					
<input checked="" type="checkbox"/> Clear and sediment free							If flowing give rate - (litres/min)					
<input type="checkbox"/> Other, specify							If pumping discontinued, give reason.					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							20 11.50 20 6.74					
							25 11.83 25 6.65					
							30 12.06 30 6.51					
							40 12.29 40 6.45					
							50 12.46 50 6.43					
							60 12.56 60 6.42					

Plugging and Sealing Record			
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
16.45	0	Grouted bentonite Slurry	.92m <sup>3</sup>
Method of Construction			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air) MUD	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	
Water Use			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	
Well Contractor/Technician Information			
Name of Well Contractor Capital Water Supply Ltd.		Well Contractor's Licence No. 1558	
Business Address (street name, number, city etc.) Box 490 Stittsville Ontario K2S 1A6			
Name of Well Technician (last name, first name) Miller Stephen		Well Technician's Licence No. T0097	
Signature of Technician/Contractor		Date Submitted YYYY MM DD 2007 5 31	

Location of Well			
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.			
Audit No.	Date Well Completed		
Z 58658	2007 5 29		
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered YYYY MM DD 2007 5 30		
Ministry Use Only			
Data Source	Contractor 1558		
Date Received YYYY MM DD JUL 23 2007	Date of Inspection YYYY MM DD		
Remarks	Well Record Number		









Address of Well Location (Street Number/Name, RR) **3392 Jockvale Road** Township **Napan** Lot **12** Concession **2**  
 County/District/Municipality \_\_\_\_\_ City/Town/Village **Ottawa** Province **Ontario** Postal Code \_\_\_\_\_

UTM Coordinates Zone Easting Northing GPS Unit Make Model Mode of Operation:  Undifferentiated  Averaged  
 NAD **83** **184420275012002** **Garmin** **Etrex**  Differentiated, specify \_\_\_\_\_

Overburden and Bedrock Materials (see instructions on the back of this form)					
General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
Brown	Sand		Topsoil	0	0.61
Grey	Silty Sand	clumps	damp	0.61	1.22
Brown	Sand	gravel	damp	1.22	3.66
Brown	Silty Sand	gravel	very moist	3.66	4.27
Grey	Sand	silt	very wet	4.27	5.49
Grey	Silt		very wet	5.49	6.1

Hole Details		
Depth (Metres)		Diameter (Centimetres)
From	To	
0	6.1	20

**Water Use**

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

**Method of Construction**

Cable Tool  Air Percussion  Digging  
 Rotary (Conventional)  Diamond  Boring  
 Rotary (Reverse)  Jetting  Other, specify **HSA**  
 Rotary (Air)  Driving

**Status of Well**

Test Hole  Abandoned, Insufficient Supply  
 Replacement Well  Abandoned, Poor Water Quality  
 Dewatering Well  Other, specify \_\_\_\_\_  
 Alteration (Construction)  Abandoned, other, specify \_\_\_\_\_

**No Casing and Screen Used**  Yes  No

**Static Water Level Test** \_\_\_\_\_ Metres

**Screen**

Galvanized  Steel  Fibreglass  Concrete  Plastic

Outside Diameter (Centimetres) **5.8** Slot No. **10**

**Water Details**

Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals

Disinfected  Yes  No If no, provide reason: **Monitoring Well** Date Master Well Completed (yyyy/mm/dd) **2010/08/13**

**Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)**

Total Wells in Cluster **8** Please indicate Number of Cluster Well Information Log Sheets Submitted \_\_\_\_\_

Total Wells on this Property **Unknown**

**Location of Well Cluster**

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to \_\_\_\_\_

Construction Details				
Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
<b>5.1</b>	<b>PVC</b>	<b>sched 40</b>	<b>0</b>	<b>3.1</b>

Annular Space/Abandonment Sealing Record			
Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
<b>0</b>	<b>0.3</b>	<b>Bentonite</b>	<b>0.01</b>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor **George Downing Estate Drilling** Well Contractor's Licence No. **1844**  
 Business Address (Street No./Name, number, RR) **410 Rue Principale, Grenville sur la Rouge** Municipality \_\_\_\_\_  
 Province **QC** Postal Code **J0V1P0** Business E-mail Address **downing@hawk.igs.net**  
 Bus. Telephone No. (inc. area code) **8192426469** Name of Well Technician (Last Name, First Name) **Downing, Bruce**  
 Well Technician's Licence No. **2173** Signature of Technician *Bruce Downing* Date Submitted (yyyy/mm/dd) **2010/09/21**

**Ministry Use Only**

Audit No. **M 06774** Well Contractor No. \_\_\_\_\_  
 Date Received (yyyy/mm/dd) **OCT 08 2010** Date of Inspection (yyyy/mm/dd) \_\_\_\_\_  
 Remarks \_\_\_\_\_



Address of Well Location (Street Number/Name, RR) 3392 Jockvale Road Lot \_\_\_\_\_ Concession \_\_\_\_\_ Township \_\_\_\_\_ County/District/Municipality \_\_\_\_\_

City/Town/Village Ottawa Province Ontario Postal Code \_\_\_\_\_ GPS Unit Make Garmin Model Etrex Unit Mode of Operation  Undifferentiated  Averaged  Differentiated, specify: \_\_\_\_\_

upon request

Signature of Technician/Contractor Bruce Downing Date (yyyy/mm/dd) 2010/09/21

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
<u>2</u>	<u>184424035012344</u>	<u>4.8</u>	<u>20</u>	<u>HSA</u>	<u>PVC</u>	<u>1.8</u>	<u>1.8</u>	<u>4.8</u>	<u>Bentonite</u>					<u>2010/08/12</u>
<u>3</u>	<u>184423165012083</u>	<u>6.7</u>				<u>3.1</u>	<u>3.1</u>	<u>6.1</u>						<u>2010/08/12</u>
<u>4</u>	<u>184423435012085</u>	<u>5.4</u>				<u>2.4</u>	<u>2.4</u>	<u>5.4</u>						<u>2010/08/12</u>
<u>5</u>	<u>184423415012052</u>	<u>6.7</u>				<u>3.1</u>	<u>3.1</u>	<u>6.1</u>						<u>2010/08/13</u>
<u>7</u>	<u>184423305012300</u>	<u>5.4</u>				<u>1.83</u>	<u>1.83</u>	<u>5.49</u>						<u>2010/08/13</u>
<u>8</u>	<u>184422765012274</u>	<u>5.7</u>				<u>2.6</u>	<u>2.6</u>	<u>5.6</u>						<u>2010/08/13</u>
<u>9</u>	<u>184422965012279</u>	<u>5.4</u>				<u>3</u>	<u>3</u>	<u>5.4</u>						<u>2010/08/16</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor George Downing Estate Drilling Business Address (Street Number/Name, RR) 410 Rue Principale, Grenville sur la Rouge Municipality QC Province QC

Postal Code J0V 1B0 Business Telephone No. (inc. area code) 819 242 6469 Well Contractor's Licence No. 1844 Business E-mail Address downing@hawk.igs.net

Name of Well Technician (First Name, Last Name) Pryce Downing Well Technician's Licence No. 2173 Date Submitted (yyyy/mm/dd) 2010/09/21 Signature of Technician Bruce Downing

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2010/08/12 Date Last Well in Cluster Constructed (yyyy/mm/dd) 2010/08/16

**Ministry Use Only**

Date Received (yyyy/mm/dd) OCT 08 2010 Date Inspected (yyyy/mm/dd) \_\_\_\_\_

Audit No. c 08023 Remarks MAJ074





**LEGEND**

- SITE BOUNDARY
- [Hatched Box] SENSITIVE SITE AREA DUE TO PROXIMITY TO RIVER
- [Solid Black Box] INDOOR AIR (NOT VISIBLE OR AIR PHOTO)
- [Circle with Crosshair] MW-3 MONITORING WELL
- [Circle with Crosshair] BH-1 BOREHOLE

N

0 5 10 20  
METRES



**TITLE:**  
BOREHOLE AND MONITORING WELL LOCATION PLAN  
  
GAMBLE'S NURSERY  
3392-3394 Jockvale Road  
Ottawa, Ontario

**CLIENT:**  
  
CITY OF OTTAWA  
Realty Services Branch  
110 Laurier Avenue West, 5th Floor  
Ottawa, Ontario  
K1P 1J1

**DRAWN BY:** JFT

**CHECKED BY:** KDH

**DATE:** SEPTEMBER 2010

**PROJECT NO:** TZ101013

**SCALE:** 1 : 1,000

**FIGURE NO:**  
  
**4**

K2L90W  
C-1844  
M06774  
C08023

OCT 08 2010



**Well Location**

Address of Well Location (Street Number/Name) <b>3426 Greenbank Rd</b>		Township <b>Nepean</b>	Lot <b>P/L 12</b>	Concession <b>3RF</b>
County/District/Municipality <b>Ottawa-Carleton</b>		City/Town/Village <b>Nepean</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	
NAD 83	<b>18 441897</b>	<b>5011953</b>	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
	Sand	and	Boulders	0'	33'
Grey	limestone			33'	200'
Grey & white	Sandstone			200'	220'
Well #1					

Annular Space			
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/R³)
0	28	Bentonite slurry	12.6
28	38	Neat cement	9.36

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

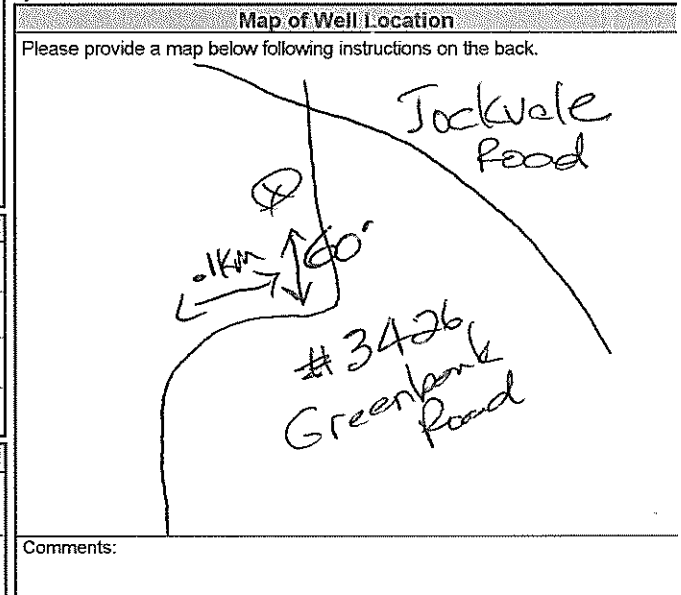
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
6"	Steel	.188"	+2'	38'	
6"	Open Hole		38'	220'	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft) From	Diameter (cm/in) To
135 (m/ft)		0	6"
210 (m/ft)		0	220'

Well Contractor and Well Technician Information	
Business Name of Well Contractor <b>Air Rock Drilling Co. Ltd.</b>	Well Contractor's Licence No. <b>1119</b>
Business Address (Street Number/Name) <b>8659 Franktown Road, RR#1</b>	Municipality <b>Richmond</b>
Province <b>ON</b>	Postal Code <b>K0A 2Z0</b>
Business E-mail Address <b>air-rock@sympatico.ca</b>	Name of Well Technician (Last Name, First Name) <b>Hogan, Dan</b>
Bus. Telephone No. (inc. area code) <b>6138382170</b>	Signature of Technician and/or Contractor <i>[Signature]</i>
Well Technician's Licence No. <b>T3058</b>	Date Submitted <b>2010 11 30</b>

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify <b>Not tested</b>	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: <del>Reason</del> Pump intake set at (m/ft) <b>200'</b> Pumping rate (l/min / GPM) <del>Rate</del> <b>20</b> Duration of pumping <b>1</b> hrs + <b>0</b> min Final water level end of pumping (m/ft) <b>44.9</b> If flowing give rate (l/min / GPM) <del>Rate</del> Recommended pump depth (m/ft) <b>100'</b> Recommended pump rate (l/min / GPM) <del>Rate</del> <b>20</b> Well production (l/min / GPM) <del>Rate</del> <b>20</b> Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	18.4		44.9
	1	26.5	1	28.4
	2	30.6	2	23
	3	33.4	3	20.4
	4	35.1	4	18.9
	5	36.5	5	18.4
	10	39.9	10	18.4
	15	41.1	15	18.4
	20	42.3	20	18.4
	25	43.5	25	18.4
30	44	30	18.4	
40	44.3	40	18.4	
50	44.7	50	18.4	
60	44.9	60	18.4	



Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes	<b>2010 11 03</b>	Audit No. <b>2110802</b>
<input type="checkbox"/> No	<b>2010 11 03</b>	DEC 29 2010









Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization Mattamy Homes	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 123 Huntmar Road	Municipality Carp	Province Ontario	Postal Code K0A 1L0
		Telephone No. (inc. area code)	

**Well Location**

Address of Well Location (Street Number/Name) Greenbank Road	Township Nepean	Lot 11/12	Concession 3
County/District/Municipality Ottawa Carleton	City/Town/Village Barrhaven	Province Ontario	Postal Code
UTM Coordinates NAD 83 18 441854	Northings 5011722	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
Brown	Soil	Stones	Packed	0	3.65
Grey	Till		Packed	3.65	7.61
Grey	Sand & Gravel		Packed	7.61	10.66
Grey	Limestone			10.66	48.76
Grey & White	Sandstone		Hard	48.76	83.20

Annular Space			
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
11.88	0	Grouted Bentonite Slurry	.45m³

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	

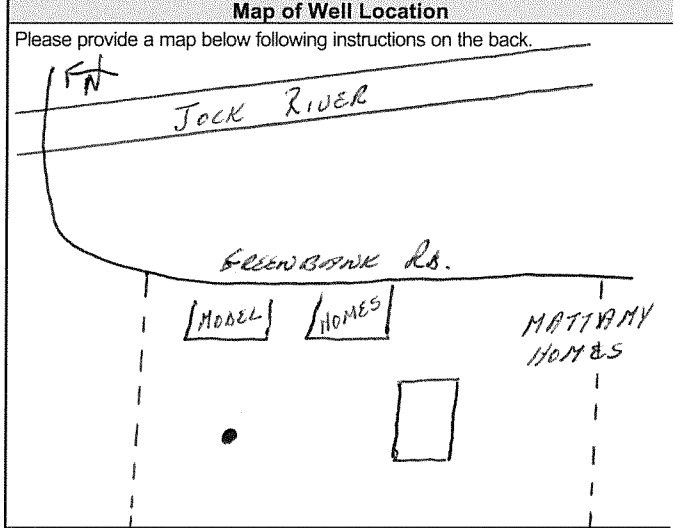
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+ .45	11.88	

Construction Record - Screen				Status of Well
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)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft) From	To	Diameter (cm/in)
79.24		0	11.88	15.86
		11.88	83.20	15.23

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 (Street Number/Name) Box 490	Municipality Stittsville		
Province Ontario	Postal Code K2S 1A6	Business E-mail Address office@capitalwater.ca	
Bus. Telephone No. (inc. area code) 613 836 1766	Name of Well Technician (Last Name, First Name) Miller, Stephen		
Well Technician's Licence No. 0 0 9 7	Signature of Technician and/or Contractor	Date Submitted 20120911	

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" 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) 30.47  Pumping rate (l/min / GPM) 54.6  Duration of pumping 1 hrs + min  Final water level end of pumping (m/ft) 12.82  If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) 30.47  Recommended pump rate (l/min / GPM) 45.5  Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	4.20		
	1	6.30	1	10.13
	2	7.15	2	8.46
	3	8.00	3	6.66
	4	8.50	4	5.50
	5	9.30	5	4.60
10		10	4.24	
15		15		
20	12.20	20		
25	12.44	25		
30	12.48	30		
40	12.60	40		
50	12.73	50		
60	12.82	60		



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 20120910	<b>Ministry Use Only</b> Audit No. Z139833 Received 28 2012
Date Work Completed 20120910		



A-146318

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Last Name / Organization: THE GREAT CONSTRUCTION UNITS E-mail Address:  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 3187 ALBION ROAD Municipality: OTTAWA Province: ON Postal Code: K1V6K5 Telephone No. (inc. area code): (437) 271-3200

Well Location

Address of Well Location (Street Number/Name): 3401 GREENBANK ROAD Township: NEPEAN (REF) Lot: 13 Concession: 2

County/District/Municipality: OTTAWA/CARLETON City/Town/Village: NEPEAN (OTTAWA) Province: Ontario Postal Code:

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 entries like SAND/FILL, GREY TILL, BOULDER CLAY, etc.

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 like HOVERPLUG-BEDROTE, CEMENT.

Method of Construction and Well Use table with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Test Hole, etc.

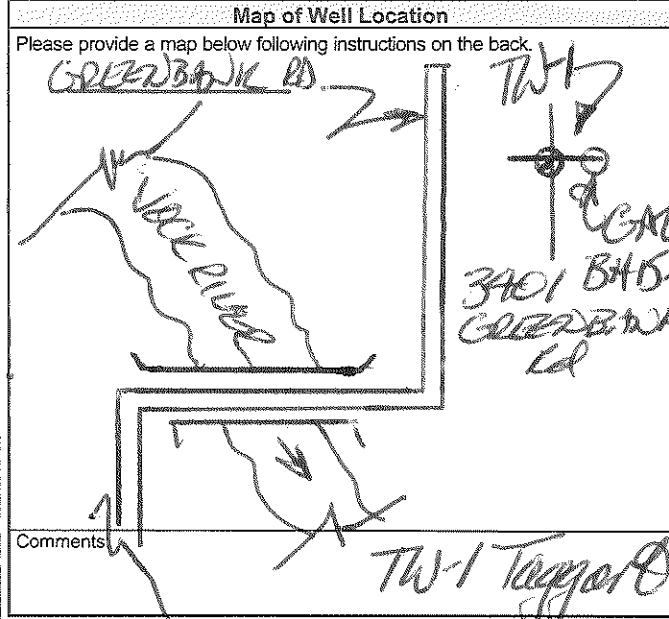
Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To. Includes handwritten entries like STEEL, 1589, 0, 70.81 B.O.F.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To. Includes handwritten entries like STAINLESS #15, 8.04, 9.76.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level), Static Level, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected? Includes handwritten 'N/A' and a large diagonal 'X'.

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). Includes handwritten entries like Fresh, 0.00, 6.00, 15.50, 8.04, 1.26, 16.7.

Well Contractor and Well Technician Information table with columns: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted.



Well owner's information package delivered (Yes/No) and Date Work Completed (2016/12/05).

Ministry Use Only table with columns: Audit No. (2220194), Date Received (JAN 10 2017).



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Claridge Homes, Last Name / Organization: Claridge Homes, E-mail Address: office@capitalwater.ca, Well Constructed by Well Owner:

Well Location

Address of Well Location: 3370 Greenbank Road, Municipality: Osgoode, Province: Ontario, Postal Code: K0A 2W0, Telephone No.: 613 822 2599

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

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From/To. All cells are empty.

Annular Space: Depth Set at (m/ft) From: 13.71, To: 0, Type of Sealant Used: Grouted 3/4 Bentonite Hole Plug (7 bags), Volume Placed: (m³/ft³)

Method of Construction:  Cable Tool,  Rotary (Conventional),  Rotary (Reverse),  Boring,  Air percussion,  Other, specify

Well Use:  Public,  Commercial,  Not used,  Domestic,  Municipal,  Dewatering,  Livestock,  Test Hole,  Monitoring,  Irrigation,  Cooling & Air Conditioning,  Industrial,  Other, specify

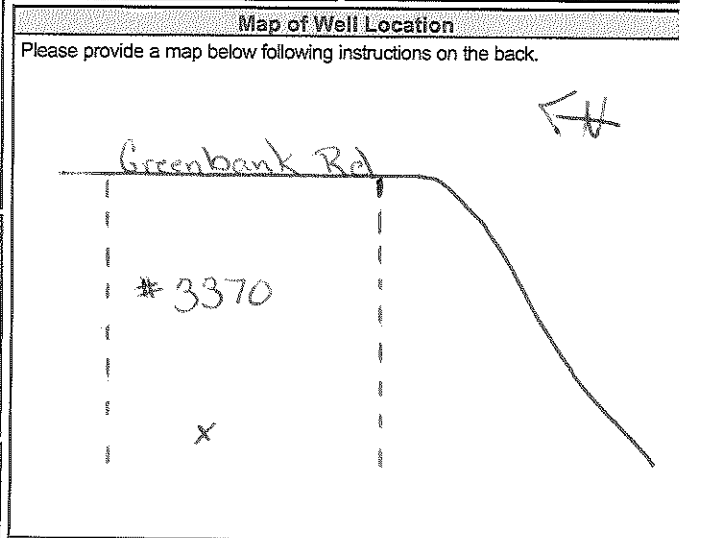
Construction Record - Casing: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From/To, Status of Well:  Water Supply,  Replacement Well,  Test Hole,  Recharge Well,  Dewatering Well,  Observation and/or Monitoring Hole,  Alteration (Construction),  Abandoned, Insufficient Supply,  Abandoned, Poor Water Quality,  Abandoned, other, specify

Construction Record - Screen: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (m/ft) From/To, Status of Well:  Abandoned, Insufficient Supply,  Abandoned, Poor Water Quality,  Abandoned, other, specify

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

Well Contractor and Well Technician Information: Business Name of Well Contractor: Capital Water Supply Ltd., Well Contractor's Licence No.: 1558, Business Address: P.O. Box 490, Municipality: Stittsville, Province: Ontario, Postal Code: K2S1A6, Business E-mail Address: office@capitalwater.ca, Name of Well Technician (Last Name, First Name): Miller, Stephen, Well Technician's Licence No.: 6138361766, Signature of Technician and/or Contractor: [Signature], Date Submitted: 20161220

Results of Well Yield Testing: After test of well yield, water was:  Clear and sand free,  Other, specify. Draw Down: Time (min), Water Level (m/ft), Recovery: Time (min), Water Level (m/ft). Pumping rate (l/min / GPM), Duration of pumping (hrs + min), Final water level end of pumping (m/ft), If flowing give rate (l/min / GPM), Recommended pump depth (m/ft), Recommended pump rate (l/min / GPM), Well production (l/min / GPM), Disinfected?  Yes  No



Comments: Well owner's information package delivered:  Yes,  No. Date Package Delivered: 20161220, Date Work Completed: 20161220. Ministry Use Only: Audit No.: 226860, MAY 25 2017, Received

Measurements recorded in:  Metric  Imperial

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

**Well Owner's Information**

First Name <b>Mattamy Homes</b>		Last Name / Organization		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Mailing Address (Street Number/Name) <b>50 Heinz Road, Suite 100</b>			Municipality <b>Kanata</b>	Province <b>ON</b>	Postal Code <b>K2M1M5</b>	Telephone No. (inc. area code)	

**Well Location**

Address of Well Location (Street Number/Name) <b>3454 Greenbank Road</b>			Township <b>Nepean</b>	Lot <b>11412</b>	Concession <b>3</b>	
County/District/Municipality <b>Ottawa Carleton</b>			City/Town/Village <b>(Barrhaven) Nepean</b>		Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83</b>	Easting <b>18441854</b>	Northing <b>5011722</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
Abandonment of Previously Drilled Well Audit No Z139833 Tag# A123394				

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
267' 0"	Bentonite Chips	45.54

Method of Construction	Well Use
<input checked="" type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To		
<del>Construction Record - Casing</del>				<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 type="checkbox"/> Abandoned, other, specify <input checked="" type="checkbox"/> Other, specify <b>wrong location</b>	

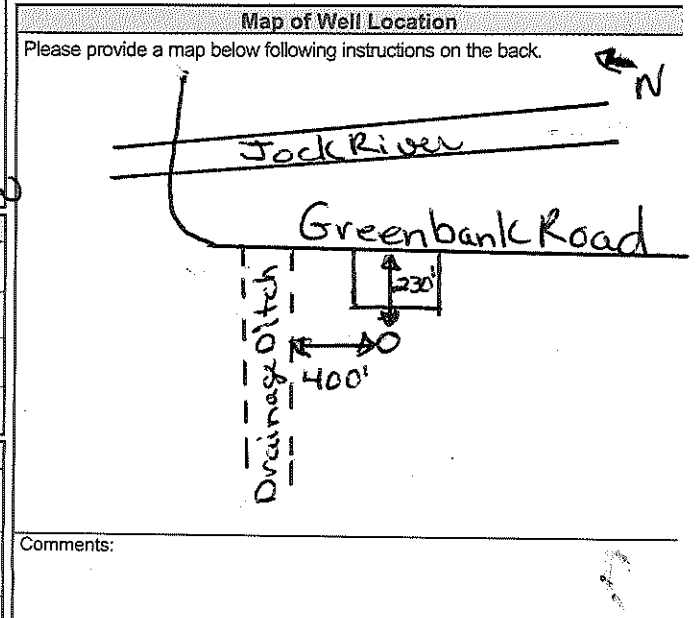
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To
<del>Construction Record - Screen</del>			

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>1425486 Ontario Ltd aka Splash Well Drilling</b>		Well Contractor's Licence No. <b>4877</b>	
Business Address (Street Number/Name) <b>PO BOX 1083</b>		Municipality <b>Prescott</b>	
Province <b>ON</b>	Postal Code <b>K0E1T0</b>	Business E-mail Address	

Bus. Telephone No. (inc. area code) <b>6139254885</b>	Name of Well Technician (Last Name, First Name) <b>Ferguson, Johnathon</b>	
Well Technician's Licence No. <b>218519</b>	Signature of Technician and/or Contractor	Date Submitted <b>20170615</b>

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		



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20170610</b>	Date Work Completed <b>20170525</b>
<b>Ministry Use Only</b> Audit No. <b>Z242980</b> <b>JUN 07 2017</b> Received		



**Well Owner's Information**

First Name <b>Mattamy Homes</b>	Last Name / Organization	E-mail Address	<input checked="" type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>50 Heinz Road, Suite 100</b>	Municipality <b>Kanata</b>	Province <b>ON</b>	Postal Code <b>K2K2M5</b>
Telephone No. (inc. area code)			

**Well Location**

Address of Well Location (Street Number/Name) <b>154 Greenbank Road</b>	Township <b>Nepean</b>	Lot <b>11+12</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>(Barrhaven) Nepean</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing NAD   8   3   <b>18   441860   5011728</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
Brown	Topsoil	Clay	Packed	0	10'
Grey	Till		Packed	10'	35'6"
Grey	Limestone		Hard	35'6"	141'

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
38'6"	28'6"	Cement Pressure Grouted
28'6"	0	Bentonite Pressure Grouted
		Volume Placed (m³/ft³)
		6.77
		20.31

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

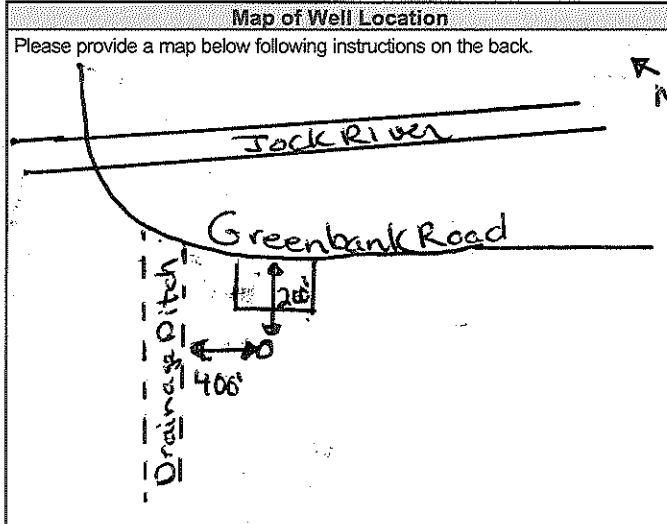
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
9 7/8"	Open Hole		0	38'6"	
6 1/4"	Steel	0.188	0	38'6"	
6 1/8"	Open Hole		38'6"	141'	

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)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From	Diameter (cm/in)
110'	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	38'6" 9 7/8"
		38'6"	141' 6 1/8"

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>1425486 Ontario Ltd ota Splash Well Drilling</b>		Well Contractor's Licence No. <b>41877</b>	
Business Address (Street Number/Name) <b>PO Box 1083</b>		Municipality <b>Prescott</b>	
Province <b>ON</b>	Postal Code <b>K0E1T0</b>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <b>613 925 4885</b>	Name of Well Technician (Last Name, First Name) <b>Ferguson, Johnathon</b>		
Well Technician's Licence No. <b>21859</b>	Signature of Technician and/or Contractor		Date Submitted <b>20170531</b>

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	12.9		108.4
Pump intake set at (m/ft) <b>130'</b>		1	20.8	1	97
Pumping rate (l/min / GPM) <b>10 gpm</b>		2	25.9	2	90.9
Duration of pumping <b>1 hrs + 0 min</b>		3	28.9	3	84.7
Final water level end of pumping (m/ft) <b>108.4</b>		4	31.6	4	78.5
If flowing give rate (l/min / GPM)		5	33.9	5	72.6
Recommended pump depth (m/ft) <b>130'</b>		10	41.7	10	42.5
Recommended pump rate (l/min / GPM) <b>10 gpm</b>		15	48.8	15	24
Well production (l/min / GPM)		20	56.8	20	17.7
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>145</b>		25	64.3	25	15.6
		30	71.1	30	14.8
		40	84.2	40	14.1
		50	96.7	50	13.8
		60	108.4	60	13.6



Comments: <b>145 Chlorine after Drilling 0 Chlorine after Field Test</b>	
Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20170525</b>
Date Work Completed <b>20170517</b>	<b>Ministry Use Only</b>
	Audit No. <b>2242975</b>
	<b>JUN 07 2017</b>
	Received

A-166318

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: \_\_\_\_\_ Last Name / Organization: THE GREAT CONSTRUCTION LIMITED E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 315 EACORN ROAD Municipality: OTTAWA Province: ON Postal Code: K1V5H7 Telephone No. (inc. area code): (416) 271-1220

Well Location

Address of Well Location (Street Number/Name): 3151 GREENBANK Township: NEPEAN (RF) Lot: 13 Concession: 2

County/District/Municipality: OTTAWA City/Town/Village: OTTAWA (BARBATHUR) Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: NAD 83 Easting: 18441983 Northing: 50112061 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
	<u>WELL ABANDONED JUNE 30, 2017</u>			<u>0.00 9.26</u>

Annular Space			
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
<u>0.00 9.26</u>	<u>HOURLIGS BERTONITE GROUT</u>	<u>.21</u>	

**Method of Construction**

Cable Tool  Diamond  Rotary (Conventional)  Jetting  Rotary (Reverse)  Driving  Boring  Digging  Air percussion  Other, specify \_\_\_\_\_

**Well Use**

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To		
<u>5.08</u>	<u>STEEL A589</u>	<u>0.48</u>	<u>0.00 9.26</u>	<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 checked="" type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____	

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To
<u>13.48</u>	<u>STAINLESS</u>	<u>#75</u>	<u>0.00 9.26</u>

Water Details		Hole Diameter	
Water found at-Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft) From To	Diameter (cm/in)
		<u>0.00 9.26</u>	<u>5.24</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: STARTER DRINKING INC Well Contractor's Licence No.: 41515

Business Address (Street Number/Name): 157 FIVE LAKES DRIVE Municipality: FAREWELL

Province: ON Postal Code: K1A0S1 Business E-mail Address: STARTER@STARTERDRINKING.COM

Bus. Telephone No. (inc. area code): (416) 271-1220 Name of Well Technician (Last Name, First Name): DAVID STANTON

Well Technician's Licence No.: 0126 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: \_\_\_\_\_

Results of Well Yield Testing				
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)
if pumping discontinued, give reason: _____	Static Level	<u>4.95</u>		
	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	
	15		15	
	20		20	
	Recommended pump depth (m/ft)	25		25
	Recommended pump rate (l/min / GPM)	30		30
	Well production (l/min / GPM)	40		40
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50		50	
	60		60	

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: WELL CLOSING COST BY (THE GREAT CONSTRUCTION)

Well owner's information package delivered:  Yes  No

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

Date Work Completed: 2017 06 30

**Ministry Use Only**

Audit No.: 2252098

**OCT 31 2017**

Received: \_\_\_\_\_

Office Use Only

Application Number: \_\_\_\_\_ Ward Number: \_\_\_\_\_ Application Received: (dd/mm/yyyy): \_\_\_\_\_  
Client Service Centre Staff: \_\_\_\_\_ Fee Received: \$ \_\_\_\_\_



# Historic Land Use Inventory

## Application Form

### Notice of Public Record

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

### Municipal Freedom of Information and Protection Act

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

PE4940

### Background Information

\*Site Address or Location:

3432 Greenbank Road, Ottawa ON

\* Mandatory Field

### Applicant/Agent information:

Name: Mandy Witteman

Mailing Address: 154 Colonnade Road S, Ottawa ON

Telephone: 613-226-7381 Email Address: mwitteman@patersongroup.ca

Registered Property Owner Information:  Same as above

Name: Minto Communities (Curtis Scarlett)

Mailing Address: 180 Kent Ste, suite 200, Ottawa ON

Telephone: 613-230-7051 Email Address: cscarlett@minto.com

### Site Details

Legal Description and PIN:

Lot 12, Concession 3 Nepean, Ottawa, ON

What is the land currently used for?

Agricultural

Lot frontage:  m Lot depth:  m Lot area: \_\_\_\_\_ m<sup>2</sup>

OR Lot area: (irregular lot)  m<sup>2</sup>

Does the site have Full Municipal Services:  Yes  No

### Required Fees

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

Planning Fee

\$125.00

### Submittal Requirements

The following are required to be submitted with this application:

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



**Disclaimer**  
**For use with HLUI Database**

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

The City, in providing information from the HLUI, to Paterson Group ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.
2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
4. Copyright is reserved to the City.
5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: 

Dated (dd/mm/yyyy): 5/11/2020

Per: Mandy Wittman

(Please print name)

Title: Consultant

Company: Paterson Group

# patersongroup

## Consulting Engineers

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

May 11, 2020  
File: PE4940-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  
3432 Greenbank Road, Ottawa ON**

Dear Sir,

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:**

Minto Communities Inc.

**Name of Representative**

Curtiss Scarlett

**Signature of Representative**

*Curtiss Scarlett*

**Date**

2020.05.12



# DATABASE REPORT

**Project Property:** *PE49XX - 3432 Greenbank Road  
3432 Greenbank Road  
Nepean ON K2J 0R5  
30077*

**Project No:** *30077*

**Report Type:** *Standard Report*

**Order No:** *20200511043*

**Requested by:** *Paterson Group Inc.*

**Date Completed:** *May 14, 2020*

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## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

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

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# Executive Summary

## Property Information:

**Project Property:** PE49XX - 3432 Greenbank Road  
3432 Greenbank Road Nepean ON K2J 0R5

**Project No:** 30077

## **Coordinates:**

**Latitude:** 45.2581319  
**Longitude:** -75.741105  
**UTM Northing:** 5,011,893.35  
**UTM Easting:** 441,852.47  
**UTM Zone:** 18T

**Elevation:** 276 FT  
84.19 M

## Order Information:

**Order No:** 20200511043  
**Date Requested:** May 11, 2020  
**Requested by:** Paterson Group Inc.  
**Report Type:** Standard Report

## Historical/Products:

## Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Within 0.25 km</b>	<b>Total</b>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking &amp; Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	5	5
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries &amp; Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian &amp; Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Within 0.25 km</b>	<b>Total</b>
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense &amp; Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense &amp; Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence &amp; Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	15	15
<b>Total:</b>			0	20	20

## Executive Summary: Site Report Summary - Project Property

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

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



## Executive Summary: Site Report Summary - Surrounding Properties

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
<a href="#">1</a>	WWIS		lot 12 con 3 ON <b>Well ID:</b> 1522107	WNW/53.8	2.49	<a href="#">15</a>
<a href="#">2</a>	WWIS		lot 12 con 3 NEPEAN ON <b>Well ID:</b> 7156857	NE/74.4	4.99	<a href="#">18</a>
<a href="#">3</a>	WWIS		lot 12 con 3 NEPEAN ON <b>Well ID:</b> 7156858	NE/104.3	5.20	<a href="#">25</a>
<a href="#">4</a>	WWIS		lot 12 con 3 ON <b>Well ID:</b> 1506041	E/129.6	5.35	<a href="#">32</a>
<a href="#">5</a>	BORE		ON	E/129.6	5.35	<a href="#">34</a>
<a href="#">6</a>	WWIS		lot 12 con 3 ON <b>Well ID:</b> 1510110	ENE/132.3	6.77	<a href="#">35</a>
<a href="#">7</a>	WWIS		lot 12 con 3 ON <b>Well ID:</b> 1510111	NE/140.0	6.77	<a href="#">38</a>
<a href="#">8</a>	BORE		ON	NE/140.0	6.77	<a href="#">41</a>
<a href="#">9</a>	WWIS		lot 12 con 3 ON <b>Well ID:</b> 1506042	S/152.9	4.70	<a href="#">43</a>
<a href="#">10</a>	WWIS		lot 12 con 3 BARRHAVEN ON <b>Well ID:</b> 7287891	S/165.5	4.72	<a href="#">45</a>
<a href="#">11</a>	BORE		ON	SE/170.0	-1.31	<a href="#">52</a>
<a href="#">12</a>	WWIS		lot 12 con 3 BARRHAVEN ON	S/171.4	4.72	<a href="#">53</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
			<b>Well ID:</b> 7199593			
<a href="#"><u>12</u></a>	WWIS		lot 12 con 3 BARRHAVEN ON <b>Well ID:</b> 7287890	S/171.4	4.72	<a href="#"><u>59</u></a>
<a href="#"><u>13</u></a>	BORE		ON	S/191.3	4.72	<a href="#"><u>61</u></a>
<a href="#"><u>14</u></a>	WWIS		lot 12 con 2 OTTAWA ON <b>Well ID:</b> 7152714	ENE/205.6	6.65	<a href="#"><u>62</u></a>
<a href="#"><u>15</u></a>	WWIS		lot 13 con 2 NEPEAN ON <b>Well ID:</b> 7278704	NE/212.5	7.77	<a href="#"><u>76</u></a>
<a href="#"><u>15</u></a>	WWIS		lot 12 con 2 Ottawa ON <b>Well ID:</b> 7298092	NE/212.5	7.77	<a href="#"><u>80</u></a>
<a href="#"><u>16</u></a>	BORE		ON	NNE/231.9	7.38	<a href="#"><u>82</u></a>
<a href="#"><u>17</u></a>	WWIS		lot 12 con 2 ON <b>Well ID:</b> 1509671	NE/233.9	7.76	<a href="#"><u>83</u></a>
<a href="#"><u>18</u></a>	WWIS		NEPEAN ON <b>Well ID:</b> 7165137	NNE/233.9	6.51	<a href="#"><u>86</u></a>

# Executive Summary: Summary By Data Source

## **BORE - Borehole**

A search of the BORE database, dated 1875-Jul 2018 has found that there are 5 BORE site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	ON	E	129.59	<a href="#"><u>5</u></a>
	ON	NE	140.00	<a href="#"><u>8</u></a>
	ON	S	191.30	<a href="#"><u>13</u></a>
	ON	NNE	231.92	<a href="#"><u>16</u></a>

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	ON	SE	170.04	<a href="#"><u>11</u></a>

## **WWIS - Water Well Information System**

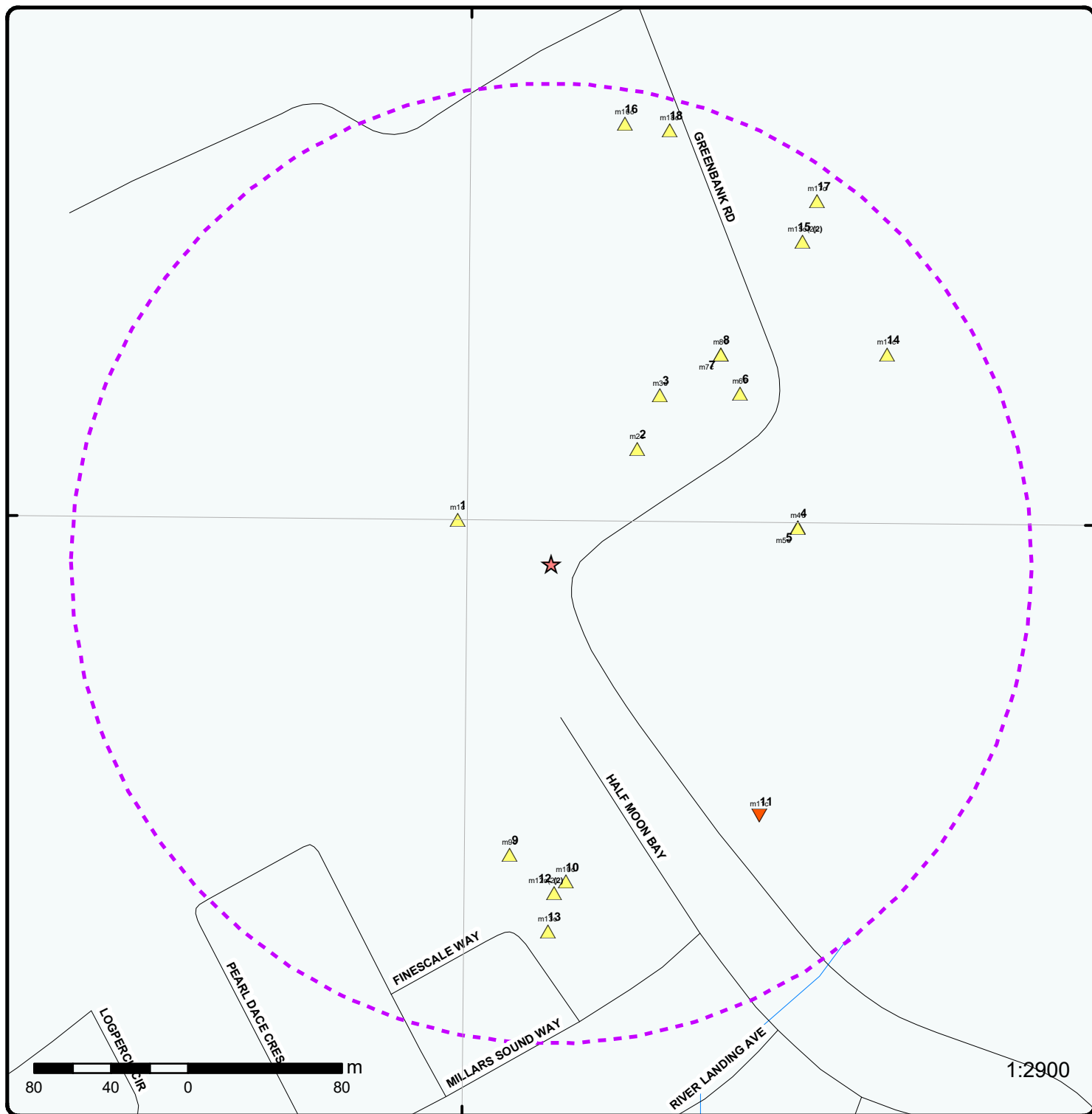
A search of the WWIS database, dated Feb 28, 2019 has found that there are 15 WWIS site(s) within approximately 0.25 kilometers of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	lot 12 con 3 ON  <i>Well ID:</i> 1522107	WNW	53.77	<a href="#"><u>1</u></a>
	lot 12 con 3 NEPEAN ON  <i>Well ID:</i> 7156857	NE	74.44	<a href="#"><u>2</u></a>



<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 12 con 3 NEPEAN ON  <i>Well ID:</i> 7156858	NE	104.30	<a href="#"><u>3</u></a>
	lot 12 con 3 ON  <i>Well ID:</i> 1506041	E	129.58	<a href="#"><u>4</u></a>
	lot 12 con 3 ON  <i>Well ID:</i> 1510110	ENE	132.32	<a href="#"><u>6</u></a>
	lot 12 con 3 ON  <i>Well ID:</i> 1510111	NE	139.96	<a href="#"><u>7</u></a>
	lot 12 con 3 ON  <i>Well ID:</i> 1506042	S	152.91	<a href="#"><u>9</u></a>
	lot 12 con 3 BARRHAVEN ON  <i>Well ID:</i> 7287891	S	165.52	<a href="#"><u>10</u></a>
	lot 12 con 3 BARRHAVEN ON  <i>Well ID:</i> 7199593	S	171.36	<a href="#"><u>12</u></a>
	lot 12 con 3 BARRHAVEN ON  <i>Well ID:</i> 7287890	S	171.36	<a href="#"><u>12</u></a>
	lot 12 con 2 OTTAWA ON  <i>Well ID:</i> 7152714	ENE	205.59	<a href="#"><u>14</u></a>
	lot 13 con 2 NEPEAN ON  <i>Well ID:</i> 7278704	NE	212.47	<a href="#"><u>15</u></a>
	lot 12 con 2 Ottawa ON  <i>Well ID:</i> 7298092	NE	212.47	<a href="#"><u>15</u></a>
	lot 12 con 2 ON	NE	233.87	<a href="#"><u>17</u></a>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1509671			
	NEPEAN ON	NNE	233.89	<a href="#">18</a>
	<i>Well ID:</i> 7165137			



### Map : 0.25 Kilometer Radius

Order Number: 20200511043

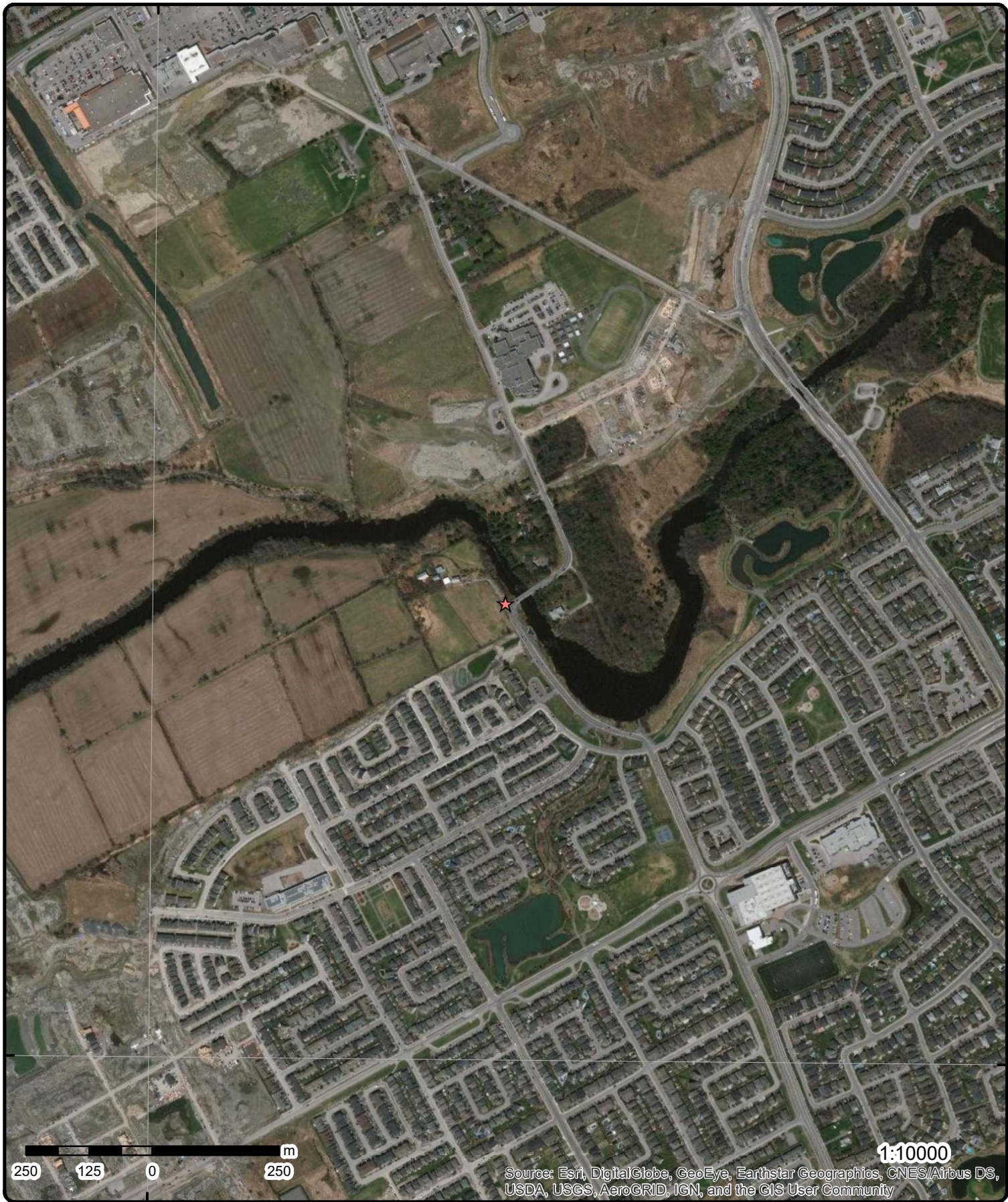
Address: 3432 Greenbank Road, Nepean, ON



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



75°45'W



45°15'N

45°15'N

**Aerial** Year: 2019

**Address: 3432 Greenbank Road, Nepean, ON**

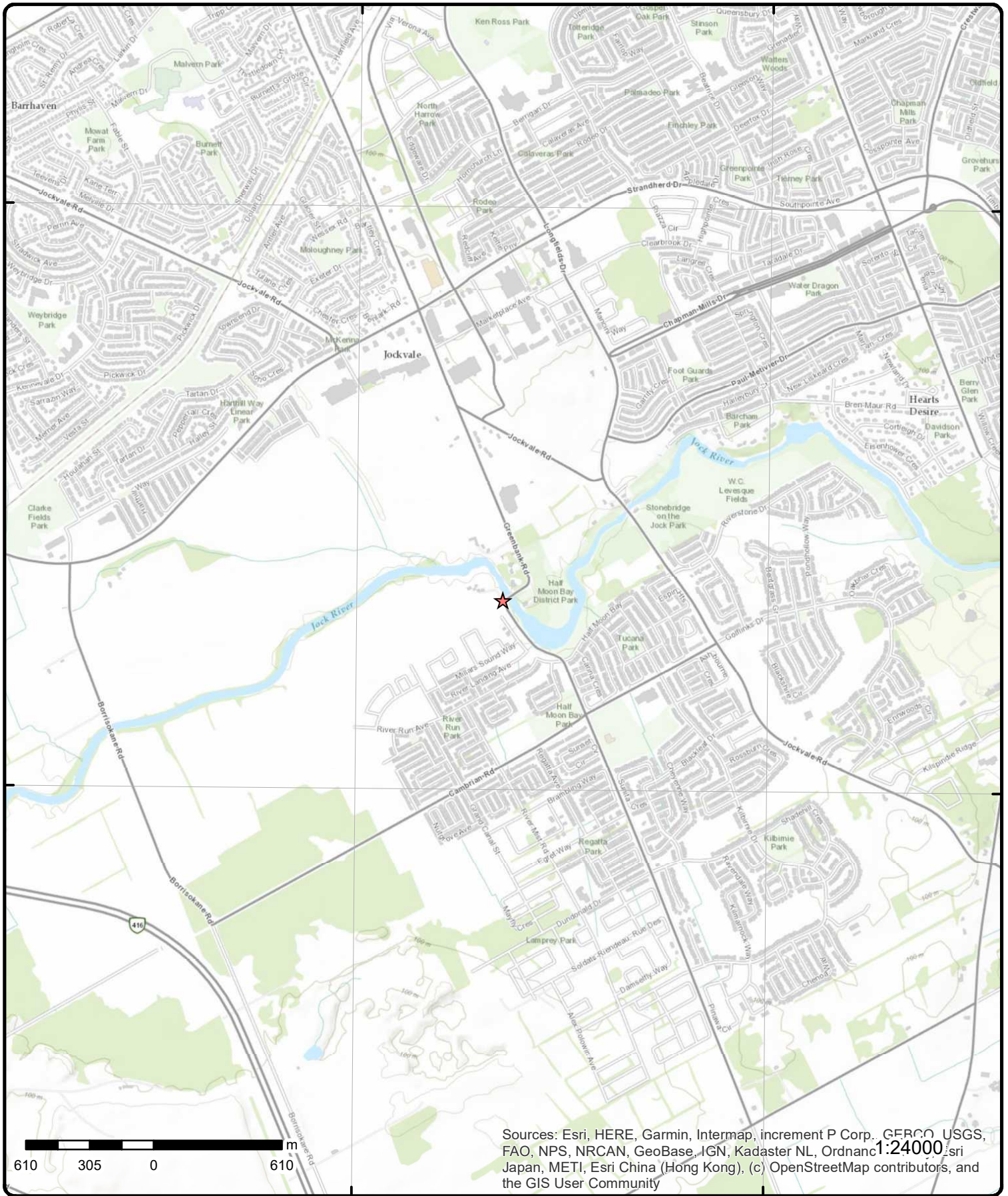
Source: ESRI World Imagery

Order Number: 20200511043



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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# Topographic Map

Address: 3432 Greenbank Road, ON

Source: ESRI World Topographic Map

Order Number: 20200511043



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# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	WNW/53.8	86.7 / 2.49	lot 12 con 3 ON	..... <b>WWIS</b>
<b>Well ID:</b> 1522107 <b>Construction Date:</b> <b>Primary Water Use:</b> Livestock <b>Sec. Water Use:</b> <b>Final Well Status:</b> Water Supply <b>Water Type:</b> <b>Casing Material:</b> <b>Audit No:</b> 08656 <b>Tag:</b> <b>Construction Method:</b> <b>Elevation (m):</b> <b>Elevation Reliability:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b> <b>Pump Rate:</b> <b>Static Water Level:</b> <b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Clear/Cloudy:</b>		<b>Data Entry Status:</b> <b>Data Src:</b> 1 <b>Date Received:</b> 1/13/1988 <b>Selected Flag:</b> Yes <b>Abandonment Rec:</b> <b>Contractor:</b> 3644 <b>Form Version:</b> 1 <b>Owner:</b> <b>Street Name:</b> <b>County:</b> OTTAWA-CARLETON <b>Municipality:</b> NEPEAN TOWNSHIP <b>Site Info:</b> <b>Lot:</b> 012 <b>Concession:</b> 03 <b>Concession Name:</b> CON <b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>			
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b> 10043920 <b>DP2BR:</b> 24 <b>Spatial Status:</b> <b>Code OB:</b> r <b>Code OB Desc:</b> Bedrock <b>Open Hole:</b> <b>Cluster Kind:</b> <b>Date Completed:</b> 9/16/1987 <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>		<b>Elevation:</b> 91.561157 <b>Elevrc:</b> <b>Zone:</b> 18 <b>East83:</b> 441803.7 <b>North83:</b> 5011916 <b>Org CS:</b> <b>UTMRC:</b> 5 <b>UTMRC Desc:</b> margin of error : 100 m - 300 m <b>Location Method:</b> gis			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> 931050276 <b>Layer:</b> 1 <b>Color:</b> 2 <b>General Color:</b> GREY <b>Mat1:</b> 05 <b>Most Common Material:</b> CLAY <b>Mat2:</b> 14 <b>Other Materials:</b> HARDPAN <b>Mat3:</b> 12					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Other Materials:</b>		STONES			
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		24			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931050277			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		24			
<b>Formation End Depth:</b>		65			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		5			
<b>Method Construction:</b>		Air Percussion			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10592490			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930076769			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>					
<b>Depth To:</b>		65			
<b>Casing Diameter:</b>		6			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930076768			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		27			
<b>Casing Diameter:</b>		6			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		991522107			
<b>Pump Set At:</b>					
<b>Static Level:</b>		8			
<b>Final Level After Pumping:</b>		20			
<b>Recommended Pump Depth:</b>		25			
<b>Pumping Rate:</b>		15			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		10			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		2			
<b>Water State After Test:</b>		CLOUDY			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		N			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934654457			
<b>Test Type:</b>					
<b>Test Duration:</b>		45			
<b>Test Level:</b>		20			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934108802			
<b>Test Type:</b>					
<b>Test Duration:</b>		15			
<b>Test Level:</b>		20			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934392906			
<b>Test Type:</b>					
<b>Test Duration:</b>		30			
<b>Test Level:</b>		20			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934902312			
<b>Test Type:</b>					
<b>Test Duration:</b>		60			
<b>Test Level:</b>		20			
<b>Test Level UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933479872			
<b>Layer:</b>		2			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		60			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		933479871			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		45			
Water Found Depth UOM:		ft			

<a href="#">2</a>	1 of 1	NE/74.4	89.2 / 4.99	lot 12 con 3 NEPEAN ON	WWIS
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<b>Well ID:</b>	7156857	<b>Data Entry Status:</b>	
<b>Construction Date:</b>		<b>Data Src:</b>	
<b>Primary Water Use:</b>	Domestic	<b>Date Received:</b>	12/29/2010
<b>Sec. Water Use:</b>		<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply	<b>Abandonment Rec:</b>	
<b>Water Type:</b>		<b>Contractor:</b>	1119
<b>Casing Material:</b>		<b>Form Version:</b>	7
<b>Audit No:</b>	Z110802	<b>Owner:</b>	
<b>Tag:</b>	A093663	<b>Street Name:</b>	3426 GREENBANK RD
<b>Construction Method:</b>		<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>		<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>		<b>Site Info:</b>	
<b>Depth to Bedrock:</b>		<b>Lot:</b>	012
<b>Well Depth:</b>		<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>		<b>Concession Name:</b>	RF
<b>Pump Rate:</b>		<b>Easting NAD83:</b>	
<b>Static Water Level:</b>		<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>		<b>Zone:</b>	
<b>Flow Rate:</b>		<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>			

#### Bore Hole Information

<b>Bore Hole ID:</b>	1003444402	<b>Elevation:</b>	90.020133
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	441897
<b>Code OB Desc:</b>		<b>North83:</b>	5011953
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>		<b>UTMRC:</b>	3
<b>Date Completed:</b>	11/2/2010	<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

#### Overburden and Bedrock Materials Interval

<b>Formation ID:</b>	1003739993
<b>Layer:</b>	3
<b>Color:</b>	2
<b>General Color:</b>	GREY
<b>Mat1:</b>	18
<b>Most Common Material:</b>	SANDSTONE
<b>Mat2:</b>	
<b>Other Materials:</b>	
<b>Mat3:</b>	
<b>Other Materials:</b>	

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation Top Depth:</b>		200			
<b>Formation End Depth:</b>		220			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1003739992			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		33			
<b>Formation End Depth:</b>		200			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1003739991			
<b>Layer:</b>		1			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		33			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003740030			
<b>Layer:</b>		2			
<b>Plug From:</b>		28			
<b>Plug To:</b>		38			
<b>Plug Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003740029			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		28			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		5			
<b>Method Construction:</b>		Air Percussion			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003739989			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003739997			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		-2			
<b>Depth To:</b>		38			
<b>Casing Diameter:</b>		6			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003739998			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>		38			
<b>Depth To:</b>		220			
<b>Casing Diameter:</b>		6			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003739999			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1003739990			
<b>Pump Set At:</b>		200			
<b>Static Level:</b>		18.4			
<b>Final Level After Pumping:</b>		44.9			
<b>Recommended Pump Depth:</b>		100			
<b>Pumping Rate:</b>		20			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		20			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		3			
<b>Water State After Test:</b>		OTHER			
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		0			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Flowing:</i>					
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740013			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		18.4			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740000			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		26.5			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740001			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		28.4			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740008			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		5			
<i>Test Level:</i>		36.5			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740016			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		43.5			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740022			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		44.7			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1003740012			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		41.1			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Pump Test Detail ID:</b>		1003740023			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		50			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740003			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		23			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740004			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		33.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740009			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740015			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740020			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		44.3			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740024			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		44.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740018			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		30			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Test Level:</b>		44			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740021			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740025			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740002			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		30.6			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740010			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		39.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740011			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740017			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		25			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740006			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		35.1			
<b>Test Level UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740007			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		18.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740005			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		20.4			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740014			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		42.3			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740019			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		18.4			
<b>Test Level UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003739996			
<b>Layer:</b>		2			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		210			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003739995			
<b>Layer:</b>		1			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		135			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1003739994			
<b>Diameter:</b>		6			
<b>Depth From:</b>		0			
<b>Depth To:</b>		220			
<b>Hole Depth UOM:</b>		ft			
<b>Hole Diameter UOM:</b>		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>3</u>	1 of 1	NE/104.3	89.4 / 5.20	lot 12 con 3 NEPEAN ON	WWIS

<b>Well ID:</b>	7156858	<b>Data Entry Status:</b>	
<b>Construction Date:</b>		<b>Data Src:</b>	
<b>Primary Water Use:</b>	Domestic	<b>Date Received:</b>	12/29/2010
<b>Sec. Water Use:</b>		<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply	<b>Abandonment Rec:</b>	
<b>Water Type:</b>		<b>Contractor:</b>	1119
<b>Casing Material:</b>		<b>Form Version:</b>	7
<b>Audit No:</b>	Z110804	<b>Owner:</b>	
<b>Tag:</b>	A093662	<b>Street Name:</b>	3426 GREENBANK RD
<b>Construction Method:</b>		<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>		<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>		<b>Site Info:</b>	
<b>Depth to Bedrock:</b>		<b>Lot:</b>	012
<b>Well Depth:</b>		<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>		<b>Concession Name:</b>	RF
<b>Pump Rate:</b>		<b>Easting NAD83:</b>	
<b>Static Water Level:</b>		<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>		<b>Zone:</b>	
<b>Flow Rate:</b>		<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>			

**Bore Hole Information**

<b>Bore Hole ID:</b>	1003444404	<b>Elevation:</b>	92.048446
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	441909
<b>Code OB Desc:</b>		<b>North83:</b>	5011981
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>		<b>UTMRC:</b>	3
<b>Date Completed:</b>	11/2/2010	<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

**Overburden and Bedrock**

**Materials Interval**

<b>Formation ID:</b>	1003740118
<b>Layer:</b>	3
<b>Color:</b>	2
<b>General Color:</b>	GREY
<b>Mat1:</b>	18
<b>Most Common Material:</b>	SANDSTONE
<b>Mat2:</b>	
<b>Other Materials:</b>	
<b>Mat3:</b>	
<b>Other Materials:</b>	
<b>Formation Top Depth:</b>	205
<b>Formation End Depth:</b>	220
<b>Formation End Depth UOM:</b>	ft

**Overburden and Bedrock**

**Materials Interval**

<b>Formation ID:</b>	1003740116
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<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Layer:</b>	1				
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>	28				
<b>Most Common Material:</b>	SAND				
<b>Mat2:</b>	13				
<b>Other Materials:</b>	BOULDERS				
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>	0				
<b>Formation End Depth:</b>	33				
<b>Formation End Depth UOM:</b>	ft				
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1003740117				
<b>Layer:</b>	2				
<b>Color:</b>	2				
<b>General Color:</b>	GREY				
<b>Mat1:</b>	15				
<b>Most Common Material:</b>	LIMESTONE				
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>	33				
<b>Formation End Depth:</b>	205				
<b>Formation End Depth UOM:</b>	ft				
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>	1003740157				
<b>Layer:</b>	2				
<b>Plug From:</b>	28				
<b>Plug To:</b>	38				
<b>Plug Depth UOM:</b>	ft				
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>	1003740156				
<b>Layer:</b>	1				
<b>Plug From:</b>	0				
<b>Plug To:</b>	28				
<b>Plug Depth UOM:</b>	ft				
<b><u>Method of Construction &amp; Well</u></b>					
<b><u>Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>	5				
<b>Method Construction:</b>	Air Percussion				
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>	1003740114				
<b>Casing No:</b>	0				
<b>Comment:</b>					
<b>Alt Name:</b>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003740124			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		-2			
<b>Depth To:</b>		38			
<b>Casing Diameter:</b>		6			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003740125			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>		38			
<b>Depth To:</b>		220			
<b>Casing Diameter:</b>		6.375			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003740126			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1003740115			
<b>Pump Set At:</b>		200			
<b>Static Level:</b>		16			
<b>Final Level After Pumping:</b>		16.9			
<b>Recommended Pump Depth:</b>		100			
<b>Pumping Rate:</b>		20			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		20			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		3			
<b>Water State After Test:</b>		OTHER			
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>					
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740135			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		16.8			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740137				
<i>Test Type:</i>	Draw Down				
<i>Test Duration:</i>	10				
<i>Test Level:</i>	16.8				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740130				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	2				
<i>Test Level:</i>	16				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740145				
<i>Test Type:</i>	Draw Down				
<i>Test Duration:</i>	30				
<i>Test Level:</i>	16.9				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740150				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	50				
<i>Test Level:</i>	16				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740144				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	25				
<i>Test Level:</i>	16				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740148				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	40				
<i>Test Level:</i>	16				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>	1003740152				
<i>Test Type:</i>	Recovery				
<i>Test Duration:</i>	60				
<i>Test Level:</i>	16				
<i>Test Level UOM:</i>	ft				
<u><i>Draw Down &amp; Recovery</i></u>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Pump Test Detail ID:</b>		1003740127			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		16.7			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740136			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740147			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		16.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740131			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		16.7			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740134			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740138			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740139			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		16.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740142			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		20			



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740146			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740129			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		16.7			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740143			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		25			
<b>Test Level:</b>		16.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740151			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		16.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740128			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740140			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740132			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		16			
<b>Test Level UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740133			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		16.7			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740141			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		16.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1003740149			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		50			
<b>Test Level:</b>		16.9			
<b>Test Level UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003740123			
<b>Layer:</b>		3			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		210			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003740122			
<b>Layer:</b>		2			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		185			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003740121			
<b>Layer:</b>		1			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		140			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1003740119			
<b>Diameter:</b>		6			
<b>Depth From:</b>		0			
<b>Depth To:</b>		38			
<b>Hole Depth UOM:</b>		ft			
<b>Hole Diameter UOM:</b>		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Hole Diameter</u></b>					
Hole ID:			1003740120		
Diameter:			0.638		
Depth From:			38		
Depth To:			220		
Hole Depth UOM:			ft		
Hole Diameter UOM:			inch		

<u>4</u>	1 of 1	E/129.6	89.5 / 5.35	lot 12 con 3 ON	WWIS
Well ID:	1506041			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/1/1960
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1301
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	012
Well Depth:				Concession:	03
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

**Bore Hole Information**

Bore Hole ID:	10028084	Elevation:	92.979988
DP2BR:	32	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	441980.7
Code OB Desc:	Bedrock	North83:	5011912
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	10/22/1960	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock**

**Materials Interval**

Formation ID:	931003633
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Other Materials:	BOULDERS
Mat3:	

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		32			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931003634			
<b>Layer:</b>		2			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		32			
<b>Formation End Depth:</b>		175			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10576654			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930048916			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>					
<b>Depth To:</b>		175			
<b>Casing Diameter:</b>		4			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930048915			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		34			
<b>Casing Diameter:</b>		4			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Results of Well Yield Testing</u></b>					
Pump Test ID:		991506041			
Pump Set At:					
Static Level:	5				
Final Level After Pumping:	7				
Recommended Pump Depth:	27				
Pumping Rate:	10				
Flowing Rate:					
Recommended Pump Rate:	10				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	1				
Pumping Duration HR:	1				
Pumping Duration MIN:	0				
Flowing:	N				
<b><u>Water Details</u></b>					
Water ID:	933460105				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	175				
Water Found Depth UOM:	ft				

<u>5</u>	1 of 1	E/129.6	89.5 / 5.35	ON	BORE
Borehole ID:	612004			Inclin FLG:	No
OGF ID:	215513314			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	OCT-1960			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.258311
Total Depth m:	53.3			Longitude DD:	-75.739473
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	441981
Drill Method:				Northing:	5011912
Orig Ground Elev m:	91.4			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	93				
Concession:					
Location D:					
Survey D:					
Comments:					

**Borehole Geology Stratum**

Geology Stratum ID:	218389789	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	9.8	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:	Boulders	Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Stratum Description:</b>		CLAY,BOULDERS.			
<b>Geology Stratum ID:</b>	218389790			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	9.8			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	53.3			<b>Material Texture:</b>	
<b>Material Color:</b>	White			<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Limestone			<b>Geologic Formation:</b>	
<b>Material 2:</b>				<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>	LIMESTONE. 00175NDSTONE. 00082STONE,SAND. WHITE. SANDSTONE. WHITE. 00086 = 19500.				
<b>Source</b>					
<b>Source Type:</b>	Data Survey			<b>Source Appl:</b>	Spatial/Tabular
<b>Source Orig:</b>	Geological Survey of Canada			<b>Source Ident:</b>	1
<b>Source Date:</b>	1956-1972			<b>Scale or Res:</b>	Varies
<b>Confidence:</b>				<b>Horizontal:</b>	NAD27
<b>Observatio:</b>				<b>Verticalda:</b>	Mean Average Sea Level
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Details:</b>	File: OTTAWA1.txt RecordID: 04512 NTS_Sheet:				
<b>Confiden 1:</b>					
<b>Source List</b>					
<b>Source Identifier:</b>	1			<b>Horizontal Datum:</b>	NAD27
<b>Source Type:</b>	Data Survey			<b>Vertical Datum:</b>	Mean Average Sea Level
<b>Source Date:</b>	1956-1972			<b>Projection Name:</b>	Universal Transverse Mercator
<b>Scale or Resolution:</b>	Varies				
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Originators:</b>	Geological Survey of Canada				
<b>6</b>	<b>1 of 1</b>	<b>ENE/132.3</b>	<b>91.0 / 6.77</b>	<b>lot 12 con 3 ON</b>	<b>WWIS</b>
<b>Well ID:</b>	1510110			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	1
<b>Primary Water Use:</b>	Domestic			<b>Date Received:</b>	7/7/1969
<b>Sec. Water Use:</b>	0			<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	1603
<b>Casing Material:</b>				<b>Form Version:</b>	1
<b>Audit No:</b>				<b>Owner:</b>	
<b>Tag:</b>				<b>Street Name:</b>	
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b>Bore Hole Information</b>					
<b>Bore Hole ID:</b>	10032140			<b>Elevation:</b>	94.175636
<b>DP2BR:</b>	37			<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Code OB:</b>	r			<b>East83:</b>	441950.7
<b>Code OB Desc:</b>	Bedrock			<b>North83:</b>	5011982
<b>Open Hole:</b>				<b>Org CS:</b>	
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	5/26/1969			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	p4
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931013919  
**Layer:** 4  
**Color:**  
**General Color:**  
**Mat1:** 11  
**Most Common Material:** GRAVEL  
**Mat2:** 09  
**Other Materials:** MEDIUM SAND  
**Mat3:** 13  
**Other Materials:** BOULDERS  
**Formation Top Depth:** 26  
**Formation End Depth:** 37  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931013916  
**Layer:** 1  
**Color:**  
**General Color:**  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 09  
**Other Materials:** MEDIUM SAND  
**Mat3:** 13  
**Other Materials:** BOULDERS  
**Formation Top Depth:** 0  
**Formation End Depth:** 4  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931013918  
**Layer:** 3  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 08  
**Most Common Material:** FINE SAND  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 12  
**Formation End Depth:** 26  
**Formation End Depth UOM:** ft

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931013917			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		09			
<b>Most Common Material:</b>		MEDIUM SAND			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		4			
<b>Formation End Depth:</b>		12			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931013920			
<b>Layer:</b>		5			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		37			
<b>Formation End Depth:</b>		103			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		2			
<b>Method Construction:</b>		Rotary (Convent.)			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10580710			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930056895			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		40			
<b>Casing Diameter:</b>		2			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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**Results of Well Yield Testing**

**Pump Test ID:** 991510110  
**Pump Set At:**  
**Static Level:** 7  
**Final Level After Pumping:** 20  
**Recommended Pump Depth:** 25  
**Pumping Rate:** 15  
**Flowing Rate:**  
**Recommended Pump Rate:** 8  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 4  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Water Details**

**Water ID:** 933465046  
**Layer:** 1  
**Kind Code:** 1  
**Kind:** FRESH  
**Water Found Depth:** 101  
**Water Found Depth UOM:** ft

7

1 of 1

NE/140.0

91.0 / 6.77

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WWIS

**Well ID:** 1510111  
**Construction Date:**  
**Primary Water Use:** Domestic  
**Sec. Water Use:** 0  
**Final Well Status:** Water Supply  
**Water Type:**  
**Casing Material:**  
**Audit No:**  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 7/7/1969  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 1603  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:** 012  
**Concession:** 03  
**Concession Name:** RF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10032141  
**DP2BR:** 33  
**Spatial Status:**  
**Code OB:** r  
**Code OB Desc:** Bedrock  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 5/23/1969

**Elevation:** 93.857696  
**Elevrc:**  
**Zone:** 18  
**East83:** 441940.7  
**North83:** 5012002  
**Org CS:**  
**UTMRC:** 4  
**UTMRC Desc:** margin of error : 30 m - 100 m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>				<b>Location Method:</b> p4	
<u><b>Overburden and Bedrock</b></u> <u><b>Materials Interval</b></u>					
<b>Formation ID:</b>		931013921			
<b>Layer:</b>		1			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>		09			
<b>Other Materials:</b>		MEDIUM SAND			
<b>Mat3:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		9			
<b>Formation End Depth UOM:</b>		ft			
<u><b>Overburden and Bedrock</b></u> <u><b>Materials Interval</b></u>					
<b>Formation ID:</b>		931013924			
<b>Layer:</b>		4			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		11			
<b>Most Common Material:</b>		GRAVEL			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		28			
<b>Formation End Depth:</b>		33			
<b>Formation End Depth UOM:</b>		ft			
<u><b>Overburden and Bedrock</b></u> <u><b>Materials Interval</b></u>					
<b>Formation ID:</b>		931013922			
<b>Layer:</b>		2			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		09			
<b>Most Common Material:</b>		MEDIUM SAND			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		9			
<b>Formation End Depth:</b>		22			
<b>Formation End Depth UOM:</b>		ft			
<u><b>Overburden and Bedrock</b></u> <u><b>Materials Interval</b></u>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation ID:</b>		931013923			
<b>Layer:</b>		3			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		08			
<b>Most Common Material:</b>		FINE SAND			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		22			
<b>Formation End Depth:</b>		28			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931013925			
<b>Layer:</b>		5			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		33			
<b>Formation End Depth:</b>		107			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10580711			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930056897			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>					
<b>Depth To:</b>		107			
<b>Casing Diameter:</b>		2			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930056896			
<b>Layer:</b>		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		37			
<b>Casing Diameter:</b>		2			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		991510111			
<b>Pump Set At:</b>					
<b>Static Level:</b>		6			
<b>Final Level After Pumping:</b>		20			
<b>Recommended Pump Depth:</b>		20			
<b>Pumping Rate:</b>		15			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		8			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		10			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		N			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933465047			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		105			
<b>Water Found Depth UOM:</b>		ft			

<u>8</u>	1 of 1	NE/140.0	91.0 / 6.77	ON	BORE
<b>Borehole ID:</b>	612007			<b>Inclin FLG:</b>	No
<b>OGF ID:</b>	215513317			<b>SP Status:</b>	Initial Entry
<b>Status:</b>				<b>Surv Elev:</b>	No
<b>Type:</b>	Borehole			<b>Piezometer:</b>	No
<b>Use:</b>				<b>Primary Name:</b>	
<b>Completion Date:</b>	MAY-1969			<b>Municipality:</b>	
<b>Static Water Level:</b>				<b>Lot:</b>	
<b>Primary Water Use:</b>				<b>Township:</b>	
<b>Sec. Water Use:</b>				<b>Latitude DD:</b>	45.259118
<b>Total Depth m:</b>	32.6			<b>Longitude DD:</b>	-75.739994
<b>Depth Ref:</b>	Ground Surface			<b>UTM Zone:</b>	18
<b>Depth Elev:</b>				<b>Easting:</b>	441941
<b>Drill Method:</b>				<b>Northing:</b>	5012002
<b>Orig Ground Elev m:</b>	92			<b>Location Accuracy:</b>	
<b>Elev Reliabil Note:</b>				<b>Accuracy:</b>	Not Applicable
<b>DEM Ground Elev m:</b>	93.9				
<b>Concession:</b>					
<b>Location D:</b>					
<b>Survey D:</b>					
<b>Comments:</b>					

**Borehole Geology Stratum**



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Geology Stratum ID:</b>	218389799			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	8.5			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	10.1			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Gravel			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Boulders			<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		GRAVEL,BOULDERS.			
<b>Geology Stratum ID:</b>	218389800			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	10.1			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	32.6			<b>Material Texture:</b>	
<b>Material Color:</b>	White			<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Limestone			<b>Geologic Formation:</b>	
<b>Material 2:</b>				<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		LIMESTONE. 00105. WHITE. 00086 = 19500. BEDROCK. SEISMIC VELOCITY = 17000. 200135 **Note: Many records provided by the department have a truncated [Stratum Description] field.			
<b>Geology Stratum ID:</b>	218389797			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	2.7			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	6.7			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Sand			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Boulders			<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		SAND,BOULDERS.			
<b>Geology Stratum ID:</b>	218389798			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	6.7			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	8.5			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Sand			<b>Geologic Formation:</b>	
<b>Material 2:</b>				<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		SAND.			
<b>Geology Stratum ID:</b>	218389796			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	0			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	2.7			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Clay			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Sand			<b>Geologic Group:</b>	
<b>Material 3:</b>	Boulders			<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		CLAY,SAND,BOULDERS.			
<b>Source</b>					
<b>Source Type:</b>	Data Survey			<b>Source Appl:</b>	Spatial/Tabular
<b>Source Orig:</b>	Geological Survey of Canada			<b>Source Iden:</b>	1
<b>Source Date:</b>	1956-1972			<b>Scale or Res:</b>	Varies
<b>Confidence:</b>				<b>Horizontal:</b>	NAD27
<b>Observatio:</b>				<b>Verticalda:</b>	Mean Average Sea Level
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Details:</b>	File: OTTAWA1.txt RecordID: 04515 NTS_Sheet:				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Confiden 1:</i>					
<u>Source List</u>					
<b>Source Identifier:</b>	1			<b>Horizontal Datum:</b>	NAD27
<b>Source Type:</b>	Data Survey			<b>Vertical Datum:</b>	Mean Average Sea Level
<b>Source Date:</b>	1956-1972			<b>Projection Name:</b>	Universal Transverse Mercator
<b>Scale or Resolution:</b>	Varies				
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Originators:</b>	Geological Survey of Canada				

<u>9</u>	1 of 1	S/152.9	88.9 / 4.70	lot 12 con 3 ON	WWIS
<b>Well ID:</b>	1506042			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	1
<b>Primary Water Use:</b>	Livestock			<b>Date Received:</b>	12/14/1966
<b>Sec. Water Use:</b>	Domestic			<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	3601
<b>Casing Material:</b>				<b>Form Version:</b>	1
<b>Audit No:</b>				<b>Owner:</b>	
<b>Tag:</b>				<b>Street Name:</b>	
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					

Bore Hole Information

<b>Bore Hole ID:</b>	10028085			<b>Elevation:</b>	91.95137
<b>DP2BR:</b>	31			<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>	r			<b>East83:</b>	441830.7
<b>Code OB Desc:</b>	Bedrock			<b>North83:</b>	5011742
<b>Open Hole:</b>				<b>Org CS:</b>	
<b>Cluster Kind:</b>				<b>UTMRC:</b>	5
<b>Date Completed:</b>	9/7/1966			<b>UTMRC Desc:</b>	margin of error : 100 m - 300 m
<b>Remarks:</b>				<b>Location Method:</b>	p5
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

Overburden and Bedrock  
Materials Interval

<b>Formation ID:</b>	931003636
<b>Layer:</b>	2
<b>Color:</b>	
<b>General Color:</b>	
<b>Mat1:</b>	11
<b>Most Common Material:</b>	GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		21			
<b>Formation End Depth:</b>		31			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931003637			
<b>Layer:</b>		3			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		31			
<b>Formation End Depth:</b>		40			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931003635			
<b>Layer:</b>		1			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		13			
<b>Most Common Material:</b>		BOULDERS			
<b>Mat2:</b>		02			
<b>Other Materials:</b>		TOPSOIL			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		21			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well</u></b>					
<b><u>Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10576655			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930048917			
<b>Layer:</b>		1			
<b>Material:</b>		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		31			
<b>Casing Diameter:</b>		5			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930048918			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>					
<b>Depth To:</b>		40			
<b>Casing Diameter:</b>		5			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		991506042			
<b>Pump Set At:</b>					
<b>Static Level:</b>		15			
<b>Final Level After Pumping:</b>		15			
<b>Recommended Pump Depth:</b>		35			
<b>Pumping Rate:</b>		15			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		5			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		N			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933460106			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		40			
<b>Water Found Depth UOM:</b>		ft			

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<b>Well ID:</b>	7287891	<b>Data Entry Status:</b>	
<b>Construction Date:</b>		<b>Data Src:</b>	
<b>Primary Water Use:</b>	Domestic	<b>Date Received:</b>	6/7/2017
<b>Sec. Water Use:</b>		<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply	<b>Abandonment Rec:</b>	
<b>Water Type:</b>		<b>Contractor:</b>	4877
<b>Casing Material:</b>		<b>Form Version:</b>	7
<b>Audit No:</b>	Z242975	<b>Owner:</b>	
<b>Tag:</b>	A218025	<b>Street Name:</b>	454 GREENBANK RD
<b>Construction Method:</b>		<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>		<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>		<b>Site Info:</b>	



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1006515961			<b>Elevation:</b>	91.83406
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	441860
<b>Code OB Desc:</b>				<b>North83:</b>	5011728
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	5/17/2017			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1006747304				
<b>Layer:</b>	1				
<b>Color:</b>	6				
<b>General Color:</b>	BROWN				
<b>Mat1:</b>	02				
<b>Most Common Material:</b>	TOPSOIL				
<b>Mat2:</b>	05				
<b>Other Materials:</b>	CLAY				
<b>Mat3:</b>	79				
<b>Other Materials:</b>	PACKED				
<b>Formation Top Depth:</b>	0				
<b>Formation End Depth:</b>	10				
<b>Formation End Depth UOM:</b>	ft				
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1006747305				
<b>Layer:</b>	2				
<b>Color:</b>	2				
<b>General Color:</b>	GREY				
<b>Mat1:</b>	34				
<b>Most Common Material:</b>	TILL				
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>	79				
<b>Other Materials:</b>	PACKED				
<b>Formation Top Depth:</b>	10				
<b>Formation End Depth:</b>	35.5				
<b>Formation End Depth UOM:</b>	ft				
<b><u>Overburden and Bedrock</u></b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1006747306			
<b>Layer:</b>		3			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>		73			
<b>Other Materials:</b>		HARD			
<b>Formation Top Depth:</b>		35.5			
<b>Formation End Depth:</b>		141			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1006747343			
<b>Layer:</b>		2			
<b>Plug From:</b>		28.5			
<b>Plug To:</b>		0			
<b>Plug Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1006747342			
<b>Layer:</b>		1			
<b>Plug From:</b>		38.5			
<b>Plug To:</b>		28.5			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		2			
<b>Method Construction:</b>		Rotary (Convent.)			
<b>Other Method Construction:</b>		AIR PERCUSSION			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1006747302			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1006747312			
<b>Layer:</b>		3			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>		38.5			
<b>Depth To:</b>		141			
<b>Casing Diameter:</b>		6.125			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>			1006747311		
<b>Layer:</b>			2		
<b>Material:</b>			1		
<b>Open Hole or Material:</b>			STEEL		
<b>Depth From:</b>			0		
<b>Depth To:</b>			38.5		
<b>Casing Diameter:</b>			6.25		
<b>Casing Diameter UOM:</b>			inch		
<b>Casing Depth UOM:</b>			ft		
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>			1006747310		
<b>Layer:</b>			1		
<b>Material:</b>			4		
<b>Open Hole or Material:</b>			OPEN HOLE		
<b>Depth From:</b>			0		
<b>Depth To:</b>			38.5		
<b>Casing Diameter:</b>			9.875		
<b>Casing Diameter UOM:</b>			inch		
<b>Casing Depth UOM:</b>			ft		
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>			1006747313		
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>			ft		
<b>Screen Diameter UOM:</b>			inch		
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>			1006747303		
<b>Pump Set At:</b>			130		
<b>Static Level:</b>			12.9		
<b>Final Level After Pumping:</b>			108.4		
<b>Recommended Pump Depth:</b>			130		
<b>Pumping Rate:</b>			10		
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>			10		
<b>Levels UOM:</b>			ft		
<b>Rate UOM:</b>			GPM		
<b>Water State After Test Code:</b>			1		
<b>Water State After Test:</b>			CLEAR		
<b>Pumping Test Method:</b>			0		
<b>Pumping Duration HR:</b>			1		
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>			N		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747317		
<b>Test Type:</b>			Recovery		
<b>Test Duration:</b>			2		
<b>Test Level:</b>			90.9		
<b>Test Level UOM:</b>			ft		

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747319		
<b>Test Type:</b>			Recovery		
<b>Test Duration:</b>			3		
<b>Test Level:</b>			84.7		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747330		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			25		
<b>Test Level:</b>			64.3		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747331		
<b>Test Type:</b>			Recovery		
<b>Test Duration:</b>			25		
<b>Test Level:</b>			15.6		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747315		
<b>Test Type:</b>			Recovery		
<b>Test Duration:</b>			1		
<b>Test Level:</b>			97		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747320		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			4		
<b>Test Level:</b>			31.6		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747336		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			50		
<b>Test Level:</b>			96.7		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1006747338		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			60		
<b>Test Level:</b>			108.4		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Pump Test Detail ID:</b>		1006747322			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		33.9			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747328			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		56.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747333			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		14.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747339			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		13.6			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747314			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		20.8			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747323			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		72.6			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747325			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		42.5			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1006747326			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		48.8			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747332			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		71.1			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747334			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		84.2			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747335			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		14.1			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747316			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		2			
<i>Test Level:</i>		25.9			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747321			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		78.5			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747324			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		41.7			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					
<i>Pump Test Detail ID:</i>		1006747327			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		24			
<i>Test Level UOM:</i>		ft			
<u><i>Draw Down &amp; Recovery</i></u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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**Pump Test Detail ID:** 1006747318  
**Test Type:** Draw Down  
**Test Duration:** 3  
**Test Level:** 28.9  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006747329  
**Test Type:** Recovery  
**Test Duration:** 20  
**Test Level:** 17.7  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006747337  
**Test Type:** Recovery  
**Test Duration:** 50  
**Test Level:** 13.8  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 1006747309  
**Layer:** 1  
**Kind Code:** 8  
**Kind:** Untested  
**Water Found Depth:** 110  
**Water Found Depth UOM:** ft

**Hole Diameter**

**Hole ID:** 1006747308  
**Diameter:** 6.125  
**Depth From:** 38.5  
**Depth To:** 141  
**Hole Depth UOM:** ft  
**Hole Diameter UOM:** inch

**Hole Diameter**

**Hole ID:** 1006747307  
**Diameter:** 9.875  
**Depth From:** 0  
**Depth To:** 38.5  
**Hole Depth UOM:** ft  
**Hole Diameter UOM:** inch

<a href="#">11</a>	1 of 1	SE/170.0	82.9 / -1.31	ON	BORE
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<b>Borehole ID:</b> 611995	<b>Inclin FLG:</b> No
<b>OGF ID:</b> 215513305	<b>SP Status:</b> Initial Entry
<b>Status:</b>	<b>Surv Elev:</b> No
<b>Type:</b> Borehole	<b>Piezometer:</b> No
<b>Use:</b>	<b>Primary Name:</b>
<b>Completion Date:</b>	<b>Municipality:</b>
<b>Static Water Level:</b> 3.4	<b>Lot:</b>
<b>Primary Water Use:</b>	<b>Township:</b>

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Sec. Water Use:</b>				<b>Latitude DD:</b>	45.25696
<b>Total Depth m:</b>	-999			<b>Longitude DD:</b>	-75.739711
<b>Depth Ref:</b>	Ground Surface			<b>UTM Zone:</b>	18
<b>Depth Elev:</b>				<b>Easting:</b>	441961
<b>Drill Method:</b>				<b>Northing:</b>	5011762
<b>Orig Ground Elev m:</b>	89.9			<b>Location Accuracy:</b>	
<b>Elev Reliabil Note:</b>				<b>Accuracy:</b>	Not Applicable
<b>DEM Ground Elev m:</b>	89.1				
<b>Concession:</b>					
<b>Location D:</b>					
<b>Survey D:</b>					
<b>Comments:</b>					
<b><u>Borehole Geology Stratum</u></b>					
<b>Geology Stratum ID:</b>	218389765			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	0			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	9.8			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Till			<b>Geologic Formation:</b>	
<b>Material 2:</b>				<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>	TILL.				
<b>Geology Stratum ID:</b>	218389766			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	9.8			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>				<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Bedrock			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Limestone			<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>	BEDROCK,LIMESTONE. WATER STABLE AT 284.0 FEET.IC VELOCITY = 5900. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.				
<b><u>Source</u></b>					
<b>Source Type:</b>	Data Survey			<b>Source Appl:</b>	Spatial/Tabular
<b>Source Orig:</b>	Geological Survey of Canada			<b>Source Iden:</b>	1
<b>Source Date:</b>	1956-1972			<b>Scale or Res:</b>	Varies
<b>Confidence:</b>	M			<b>Horizontal:</b>	NAD27
<b>Observatio:</b>				<b>Verticalda:</b>	Mean Average Sea Level
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Details:</b>	File: OTTAWA1.txt RecordID: 045030 NTS_Sheet: 31G05B				
<b>Confiden 1:</b>	Reliable information but incomplete.				
<b><u>Source List</u></b>					
<b>Source Identifier:</b>	1			<b>Horizontal Datum:</b>	NAD27
<b>Source Type:</b>	Data Survey			<b>Vertical Datum:</b>	Mean Average Sea Level
<b>Source Date:</b>	1956-1972			<b>Projection Name:</b>	Universal Transverse Mercator
<b>Scale or Resolution:</b>	Varies				
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Originators:</b>	Geological Survey of Canada				

<a href="#">12</a>	1 of 2	S/171.4	88.9 / 4.72	lot 12 con 3 BARRHAVEN ON	WWIS
<b>Well ID:</b>	7199593			<b>Data Entry Status:</b>	



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>	Domestic			<b>Date Received:</b>	3/28/2013
<b>Sec. Water Use:</b>	Public			<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	1558
<b>Casing Material:</b>				<b>Form Version:</b>	7
<b>Audit No:</b>	Z139833			<b>Owner:</b>	
<b>Tag:</b>	A123394			<b>Street Name:</b>	GREENBANK ROAD
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	03
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1004269700			<b>Elevation:</b>	92.146774
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	441854
<b>Code OB Desc:</b>				<b>North83:</b>	5011722
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	9/10/2012			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1004974072				
<b>Layer:</b>	3				
<b>Color:</b>	2				
<b>General Color:</b>	GREY				
<b>Mat1:</b>	28				
<b>Most Common Material:</b>	SAND				
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>	79				
<b>Other Materials:</b>	PACKED				
<b>Formation Top Depth:</b>	7.61				
<b>Formation End Depth:</b>	10.66				
<b>Formation End Depth UOM:</b>	m				
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1004974071				
<b>Layer:</b>	2				
<b>Color:</b>	2				
<b>General Color:</b>	GREY				
<b>Mat1:</b>	34				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Most Common Material:</b>		TILL			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>		79			
<b>Other Materials:</b>		PACKED			
<b>Formation Top Depth:</b>		3.65			
<b>Formation End Depth:</b>		7.61			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1004974074			
<b>Layer:</b>		5			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		18			
<b>Most Common Material:</b>		SANDSTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>		73			
<b>Other Materials:</b>		HARD			
<b>Formation Top Depth:</b>		48.76			
<b>Formation End Depth:</b>		83.2			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1004974073			
<b>Layer:</b>		4			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		10.66			
<b>Formation End Depth:</b>		48.76			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1004974070			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		02			
<b>Most Common Material:</b>		TOPSOIL			
<b>Mat2:</b>		12			
<b>Other Materials:</b>		STONES			
<b>Mat3:</b>		79			
<b>Other Materials:</b>		PACKED			
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		3.65			
<b>Formation End Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Plug ID:</b>		1004974100			
<b>Layer:</b>		1			
<b>Plug From:</b>		11.88			
<b>Plug To:</b>		0			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		2			
<b>Method Construction Code:</b>		Rotary (Convent.)			
<b>Method Construction:</b>		AIR PERCUSSION			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1004974068			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1004974078			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0.45			
<b>Depth To:</b>		11.88			
<b>Casing Diameter:</b>		15.86			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1004974079			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>		cm			
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1004974069			
<b>Pump Set At:</b>		30.47			
<b>Static Level:</b>		4.2			
<b>Final Level After Pumping:</b>		12.82			
<b>Recommended Pump Depth:</b>		30.47			
<b>Pumping Rate:</b>		54.6			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		45.5			
<b>Levels UOM:</b>		m			
<b>Rate UOM:</b>		LPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>		1			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>		N			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974084			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		8			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974087			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		5.5			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974082			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		7.15			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974092			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		25			
<b>Test Level:</b>		12.44			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974095			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		50			
<b>Test Level:</b>		12.73			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974080			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		6.3			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974085			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		6.66			
<b>Test Level UOM:</b>		m			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974086			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		8.5			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974089			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		4.6			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974091			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		12.2			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974083			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		8.46			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974096			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		12.82			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974081			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		10.13			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974088			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		9.3			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974090			
<b>Test Type:</b>		Recovery			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Test Duration:</b>		10			
<b>Test Level:</b>		4.24			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974093			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		12.48			
<b>Test Level UOM:</b>		m			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1004974094			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		12.6			
<b>Test Level UOM:</b>		m			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1004974077			
<b>Layer:</b>		1			
<b>Kind Code:</b>		8			
<b>Kind:</b>		Untested			
<b>Water Found Depth:</b>		79.24			
<b>Water Found Depth UOM:</b>		m			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1004974075			
<b>Diameter:</b>		15.86			
<b>Depth From:</b>		0			
<b>Depth To:</b>		11.88			
<b>Hole Depth UOM:</b>		m			
<b>Hole Diameter UOM:</b>		cm			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1004974076			
<b>Diameter:</b>		15.23			
<b>Depth From:</b>		11.88			
<b>Depth To:</b>		83.2			
<b>Hole Depth UOM:</b>		m			
<b>Hole Diameter UOM:</b>		cm			
<a href="#">12</a>	2 of 2	S/171.4	88.9 / 4.72	lot 12 con 3 BARRHAVEN ON	WWIS
<b>Well ID:</b>		7287890		<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>				<b>Date Received:</b> 6/7/2017	
<b>Sec. Water Use:</b>				<b>Selected Flag:</b> Yes	
<b>Final Well Status:</b> 0				<b>Abandonment Rec:</b> Yes	
<b>Water Type:</b>				<b>Contractor:</b> 4877	
<b>Casing Material:</b>				<b>Form Version:</b> 7	
<b>Audit No:</b> Z242980				<b>Owner:</b>	
<b>Tag:</b> A123394				<b>Street Name:</b> 3454 GREENBANK RD	
<b>Construction Method:</b>				<b>County:</b> OTTAWA-CARLETON	
<b>Elevation (m):</b>				<b>Municipality:</b> NEPEAN TOWNSHIP	

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Elevation Reliability:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b> <b>Pump Rate:</b> <b>Static Water Level:</b> <b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Clear/Cloudy:</b>				<b>Site Info:</b> <b>Lot:</b> 012 <b>Concession:</b> 03 <b>Concession Name:</b> RF <b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>	
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b> 1006515958 <b>DP2BR:</b> <b>Spatial Status:</b> <b>Code OB:</b> <b>Code OB Desc:</b> <b>Open Hole:</b> <b>Cluster Kind:</b> <b>Date Completed:</b> 5/25/2017 <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>				<b>Elevation:</b> 92.138923 <b>Elevrc:</b> <b>Zone:</b> 18 <b>East83:</b> 441854 <b>North83:</b> 5011722 <b>Org CS:</b> UTM83 <b>UTMRC:</b> 4 <b>UTMRC Desc:</b> margin of error : 30 m - 100 m <b>Location Method:</b> wwr	
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b> 1006747301 <b>Layer:</b> 1 <b>Plug From:</b> 267 <b>Plug To:</b> 0 <b>Plug Depth UOM:</b> ft					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b> 1006747294 <b>Casing No:</b> 0 <b>Comment:</b> <b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b> 1006747298 <b>Layer:</b> <b>Material:</b> <b>Open Hole or Material:</b> <b>Depth From:</b> <b>Depth To:</b> <b>Casing Diameter:</b> <b>Casing Diameter UOM:</b> inch <b>Casing Depth UOM:</b> ft					
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b> 1006747299 <b>Layer:</b> <b>Slot:</b> <b>Screen Top Depth:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b> ft					
<b>Screen Diameter UOM:</b> inch					
<b>Screen Diameter:</b>					
<b>Hole Diameter</b>					
<b>Hole ID:</b> 1006747296					
<b>Diameter:</b>					
<b>Depth From:</b>					
<b>Depth To:</b>					
<b>Hole Depth UOM:</b> ft					
<b>Hole Diameter UOM:</b> inch					

<a href="#">13</a>	1 of 1	S/191.3	88.9 / 4.72	ON	BORE
<b>Borehole ID:</b> 611990					
<b>OGF ID:</b> 215513300					
<b>Status:</b>					
<b>Type:</b> Borehole					
<b>Use:</b>					
<b>Completion Date:</b>					
<b>Static Water Level:</b> 1.2					
<b>Primary Water Use:</b>					
<b>Sec. Water Use:</b>					
<b>Total Depth m:</b> -999					
<b>Depth Ref:</b> Ground Surface					
<b>Depth Elev:</b>					
<b>Drill Method:</b>					
<b>Orig Ground Elev m:</b> 94.5					
<b>Elev Reliabil Note:</b>					
<b>DEM Ground Elev m:</b> 92.8					
<b>Concession:</b>					
<b>Location D:</b>					
<b>Survey D:</b>					
<b>Comments:</b>					
<b>Inclin FLG:</b> No					
<b>SP Status:</b> Initial Entry					
<b>Surv Elev:</b> No					
<b>Piezometer:</b> No					
<b>Primary Name:</b>					
<b>Municipality:</b>					
<b>Lot:</b>					
<b>Township:</b>					
<b>Latitude DD:</b> 45.25641					
<b>Longitude DD:</b> -75.741106					
<b>UTM Zone:</b> 18					
<b>Easting:</b> 441851					
<b>Northing:</b> 5011702					
<b>Location Accuracy:</b>					
<b>Accuracy:</b> Not Applicable					

**Borehole Geology Stratum**

<b>Geology Stratum ID:</b> 218389752					
<b>Top Depth:</b> 6.4					
<b>Bottom Depth:</b> 9.4					
<b>Material Color:</b>					
<b>Material 1:</b> Gravel					
<b>Material 2:</b>					
<b>Material 3:</b>					
<b>Material 4:</b>					
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b> GRAVEL. WATER STABLE AT 306.0 FEET.					
<b>Geology Stratum ID:</b> 218389753					
<b>Top Depth:</b> 9.4					
<b>Bottom Depth:</b>					
<b>Material Color:</b>					
<b>Material 1:</b> Bedrock					
<b>Material 2:</b> Limestone					
<b>Material 3:</b>					
<b>Material 4:</b>					
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b> BEDROCK,LIMESTONE. UNSPECIFIED. SEISMIC VELOCITY = 6700. BEDROCK. SEISMIC VELOCITY = 17000 **Note: Many records provided by the department have a truncated [Stratum Description] field.					
<b>Mat Consistency:</b>					
<b>Material Moisture:</b>					
<b>Material Texture:</b>					
<b>Non Geo Mat Type:</b>					
<b>Geologic Formation:</b>					
<b>Geologic Group:</b>					
<b>Geologic Period:</b>					
<b>Depositional Gen:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Geology Stratum ID:</b>	218389751			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	0			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	6.4			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Silt			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Boulders			<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>		SILT,BOULDERS.			

**Source**

<b>Source Type:</b>	Data Survey	<b>Source Appl:</b>	Spatial/Tabular
<b>Source Orig:</b>	Geological Survey of Canada	<b>Source Iden:</b>	1
<b>Source Date:</b>	1956-1972	<b>Scale or Res:</b>	Varies
<b>Confidence:</b>	M	<b>Horizontal:</b>	NAD27
<b>Observatio:</b>		<b>Verticalda:</b>	Mean Average Sea Level
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)		
<b>Source Details:</b>	File: OTTAWA1.txt RecordID: 044980 NTS_Sheet: 31G05B		
<b>Confiden 1:</b>	Reliable information but incomplete.		

**Source List**

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

<u>14</u>	1 of 1	ENE/205.6	90.8 / 6.65	lot 12 con 2 OTTAWA ON	WWIS
<b>Well ID:</b>	7152714			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>	Monitoring			<b>Date Received:</b>	10/13/2010
<b>Sec. Water Use:</b>				<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Test Hole			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	1844
<b>Casing Material:</b>				<b>Form Version:</b>	5
<b>Audit No:</b>	M06774			<b>Owner:</b>	
<b>Tag:</b>	A096525			<b>Street Name:</b>	3392 JOCKVALE RD.
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	02
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					

**Bore Hole Information**

<b>Bore Hole ID:</b>	1003611471	<b>Elevation:</b>	91.600662
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	442341

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<b>Code OB Desc:</b>				<b>North83:</b>	5012052
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>	This is a record from cluster log sheet			<b>UTMRC:</b>	4
<b>Date Completed:</b>	8/13/2010			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003611475			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		HSA			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003611476			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003611478			
<b>Layer:</b>					
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>					
<b>Depth To:</b>		3.1			
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003611477			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>		3.1			
<b>Screen End Depth:</b>		6.7			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Pump Test ID:</b>		1003611479			
<b>Pump Set At:</b>					
<b>Static Level:</b>					
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b>					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b>					
<b>Rate UOM:</b>					
<b>Water State After Test Code:</b>					
<b>Water State After Test:</b>					
<b>Pumping Test Method:</b>					
<b>Pumping Duration HR:</b>					
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1003611473			
<b>Diameter:</b>		20			
<b>Depth From:</b>					
<b>Depth To:</b>		6.7			
<b>Hole Depth UOM:</b>		m			
<b>Hole Diameter UOM:</b>		cm			
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1003611462			<b>Elevation:</b>	91.48561
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442343
<b>Code OB Desc:</b>				<b>North83:</b>	5012085
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>	This is a record from cluster log sheet			<b>UTMRC:</b>	4
<b>Date Completed:</b>	8/12/2010			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>		1003611466			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well</u></b>					
<b><u>Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		HSA			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<b><u>Pipe Information</u></b>					
<i>Pipe ID:</i>		1003611467			
<i>Casing No:</i>		0			
<i>Comment:</i>					
<i>Alt Name:</i>					
<b><u>Construction Record - Casing</u></b>					
<i>Casing ID:</i>		1003611469			
<i>Layer:</i>					
<i>Material:</i>		5			
<i>Open Hole or Material:</i>		PLASTIC			
<i>Depth From:</i>					
<i>Depth To:</i>		2.4			
<i>Casing Diameter:</i>					
<i>Casing Diameter UOM:</i>					
<i>Casing Depth UOM:</i>		m			
<b><u>Construction Record - Screen</u></b>					
<i>Screen ID:</i>		1003611468			
<i>Layer:</i>					
<i>Slot:</i>					
<i>Screen Top Depth:</i>		2.4			
<i>Screen End Depth:</i>		5.4			
<i>Screen Material:</i>					
<i>Screen Depth UOM:</i>		m			
<i>Screen Diameter UOM:</i>					
<i>Screen Diameter:</i>					
<b><u>Results of Well Yield Testing</u></b>					
<i>Pump Test ID:</i>		1003611470			
<i>Pump Set At:</i>					
<i>Static Level:</i>					
<i>Final Level After Pumping:</i>					
<i>Recommended Pump Depth:</i>					
<i>Pumping Rate:</i>					
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>					
<i>Levels UOM:</i>					
<i>Rate UOM:</i>					
<i>Water State After Test Code:</i>					
<i>Water State After Test:</i>					
<i>Pumping Test Method:</i>					
<i>Pumping Duration HR:</i>					
<i>Pumping Duration MIN:</i>					
<i>Flowing:</i>					
<b><u>Hole Diameter</u></b>					
<i>Hole ID:</i>		1003611464			
<i>Diameter:</i>		20			
<i>Depth From:</i>					
<i>Depth To:</i>		5.4			
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			
<b><u>Bore Hole Information</u></b>					
<i>Bore Hole ID:</i>	1003611489			<i>Elevation:</i>	91.847694

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442276
<b>Code OB Desc:</b>				<b>North83:</b>	5012274
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>		This is a record from cluster log sheet		<b>UTMRC:</b>	4
<b>Date Completed:</b>		8/13/2010		<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>		1003611493			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		HSA			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003611494			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003611496			
<b>Layer:</b>					
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>					
<b>Depth To:</b>		2.6			
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003611495			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>		2.6			
<b>Screen End Depth:</b>		5.7			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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**Results of Well Yield Testing**

**Pump Test ID:** 1003611497  
**Pump Set At:**  
**Static Level:**  
**Final Level After Pumping:**  
**Recommended Pump Depth:**  
**Pumping Rate:**  
**Flowing Rate:**  
**Recommended Pump Rate:**  
**Levels UOM:**  
**Rate UOM:**  
**Water State After Test Code:**  
**Water State After Test:**  
**Pumping Test Method:**  
**Pumping Duration HR:**  
**Pumping Duration MIN:**  
**Flowing:**

**Hole Diameter**

**Hole ID:** 1003611491  
**Diameter:** 20  
**Depth From:**  
**Depth To:** 5.7  
**Hole Depth UOM:** m  
**Hole Diameter UOM:** cm

**Bore Hole Information**

<b>Bore Hole ID:</b>	1003611444	<b>Elevation:</b>	91.52526
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	442403
<b>Code OB Desc:</b>		<b>North83:</b>	5012344
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>	This is a record from cluster log sheet	<b>UTMRC:</b>	4
<b>Date Completed:</b>	8/12/2010	<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

**Annular Space/Abandonment Sealing Record**

**Plug ID:** 1003611448  
**Layer:**  
**Plug From:**  
**Plug To:**  
**Plug Depth UOM:**

**Method of Construction & Well Use**

**Method Construction ID:**  
**Method Construction Code:**  
**Method Construction:**

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Other Method Construction:</i>		HSA			
<b><u>Pipe Information</u></b>					
<i>Pipe ID:</i>		1003611449			
<i>Casing No:</i>		0			
<i>Comment:</i>					
<i>Alt Name:</i>					
<b><u>Construction Record - Casing</u></b>					
<i>Casing ID:</i>		1003611451			
<i>Layer:</i>					
<i>Material:</i>		5			
<i>Open Hole or Material:</i>		PLASTIC			
<i>Depth From:</i>					
<i>Depth To:</i>		1.8			
<i>Casing Diameter:</i>					
<i>Casing Diameter UOM:</i>					
<i>Casing Depth UOM:</i>		m			
<b><u>Construction Record - Screen</u></b>					
<i>Screen ID:</i>		1003611450			
<i>Layer:</i>					
<i>Slot:</i>					
<i>Screen Top Depth:</i>		1.8			
<i>Screen End Depth:</i>		4.8			
<i>Screen Material:</i>					
<i>Screen Depth UOM:</i>		m			
<i>Screen Diameter UOM:</i>					
<i>Screen Diameter:</i>					
<b><u>Results of Well Yield Testing</u></b>					
<i>Pump Test ID:</i>		1003611452			
<i>Pump Set At:</i>					
<i>Static Level:</i>					
<i>Final Level After Pumping:</i>					
<i>Recommended Pump Depth:</i>					
<i>Pumping Rate:</i>					
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>					
<i>Levels UOM:</i>					
<i>Rate UOM:</i>					
<i>Water State After Test Code:</i>					
<i>Water State After Test:</i>					
<i>Pumping Test Method:</i>					
<i>Pumping Duration HR:</i>					
<i>Pumping Duration MIN:</i>					
<i>Flowing:</i>					
<b><u>Hole Diameter</u></b>					
<i>Hole ID:</i>		1003611446			
<i>Diameter:</i>		20			
<i>Depth From:</i>					
<i>Depth To:</i>		4.8			
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1003611480			<b>Elevation:</b>	90.039787
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442330
<b>Code OB Desc:</b>				<b>North83:</b>	5012300
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>	This is a record from cluster log sheet			<b>UTMRC:</b>	4
<b>Date Completed:</b>	8/13/2010			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>	1003611484				
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>	HSA				
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>	1003611485				
<b>Casing No:</b>	0				
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>	1003611487				
<b>Layer:</b>					
<b>Material:</b>	5				
<b>Open Hole or Material:</b>	PLASTIC				
<b>Depth From:</b>					
<b>Depth To:</b>	1.83				
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>	m				
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>	1003611486				
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>	1.83				
<b>Screen End Depth:</b>	5.4				
<b>Screen Material:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Depth UOM: Screen Diameter UOM: Screen Diameter:		m			
<b><u>Results of Well Yield Testing</u></b>					
Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:		1003611488			
<b><u>Hole Diameter</u></b>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:		1003611482 20 5.4 m cm			
<b><u>Bore Hole Information</u></b>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	1003611507			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	9 unknown UTM na
<b><u>Hole Diameter</u></b>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:		1003611509			
<b><u>Bore Hole Information</u></b>					
Bore Hole ID:	1003348117			Elevation:	92.764251

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442027
<b>Code OB Desc:</b>				<b>North83:</b>	5012002
<b>Open Hole:</b>	N			<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	6
<b>Date Completed:</b>	8/13/2010			<b>UTMRC Desc:</b>	margin of error : 300 m - 1 km
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1003611512  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:** 02  
**Other Materials:** TOPSOIL  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 0  
**Formation End Depth:** 0.61  
**Formation End Depth UOM:** m

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1003611513  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 06  
**Most Common Material:** SILT  
**Mat2:** 28  
**Other Materials:** SAND  
**Mat3:** 91  
**Other Materials:** WATER-BEARING  
**Formation Top Depth:** 0.61  
**Formation End Depth:** 1.22  
**Formation End Depth UOM:** m

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1003611517  
**Layer:** 6  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 06  
**Most Common Material:** SILT  
**Mat2:**  
**Other Materials:**  
**Mat3:** 91  
**Other Materials:** WATER-BEARING  
**Formation Top Depth:** 5.49

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation End Depth:</b>			6.1		
<b>Formation End Depth UOM:</b>			m		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1003611516		
<b>Layer:</b>			5		
<b>Color:</b>			2		
<b>General Color:</b>			GREY		
<b>Mat1:</b>			28		
<b>Most Common Material:</b>			SAND		
<b>Mat2:</b>			06		
<b>Other Materials:</b>			SILT		
<b>Mat3:</b>			91		
<b>Other Materials:</b>			WATER-BEARING		
<b>Formation Top Depth:</b>			4.27		
<b>Formation End Depth:</b>			5.49		
<b>Formation End Depth UOM:</b>			m		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1003611514		
<b>Layer:</b>			3		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			28		
<b>Most Common Material:</b>			SAND		
<b>Mat2:</b>			11		
<b>Other Materials:</b>			GRAVEL		
<b>Mat3:</b>			91		
<b>Other Materials:</b>			WATER-BEARING		
<b>Formation Top Depth:</b>			1.22		
<b>Formation End Depth:</b>			3.66		
<b>Formation End Depth UOM:</b>			m		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1003611515		
<b>Layer:</b>			4		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			06		
<b>Most Common Material:</b>			SILT		
<b>Mat2:</b>			28		
<b>Other Materials:</b>			SAND		
<b>Mat3:</b>			11		
<b>Other Materials:</b>			GRAVEL		
<b>Formation Top Depth:</b>			3.66		
<b>Formation End Depth:</b>			4.27		
<b>Formation End Depth UOM:</b>			m		
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>			1003611519		
<b>Layer:</b>			1		
<b>Plug From:</b>			0		
<b>Plug To:</b>			3		
<b>Plug Depth UOM:</b>			m		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		B			
<b>Method Construction:</b>		Other Method			
<b>Other Method Construction:</b>		HSA			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003611511			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003611520			
<b>Layer:</b>		1			
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>		0			
<b>Depth To:</b>		3.1			
<b>Casing Diameter:</b>		5.1			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003611521			
<b>Layer:</b>		1			
<b>Slot:</b>		10			
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>		5			
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>		cm			
<b>Screen Diameter:</b>		5.8			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1003611518			
<b>Diameter:</b>		20			
<b>Depth From:</b>		0			
<b>Depth To:</b>		6.1			
<b>Hole Depth UOM:</b>		m			
<b>Hole Diameter UOM:</b>		cm			
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>		1003611453		<b>Elevation:</b> 90.917266	
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b> 18	
<b>Code OB:</b>				<b>East83:</b> 442316	
<b>Code OB Desc:</b>				<b>North83:</b> 5012083	
<b>Open Hole:</b>				<b>Org CS:</b> UTM83	
<b>Cluster Kind:</b>		This is a record from cluster log sheet		<b>UTMRC:</b> 4	
<b>Date Completed:</b>		8/12/2010		<b>UTMRC Desc:</b> margin of error : 30 m - 100 m	
<b>Remarks:</b>				<b>Location Method:</b> wwr	
<b>Elevrc Desc:</b>					



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003611457			
<b>Layer:</b>					
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>					
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>					
<b>Method Construction:</b>					
<b>Other Method Construction:</b>		HSA			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003611458			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003611460			
<b>Layer:</b>					
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>					
<b>Depth To:</b>		3.1			
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003611459			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>		3.1			
<b>Screen End Depth:</b>		6.7			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1003611461			
<b>Pump Set At:</b>					
<b>Static Level:</b>					
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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**Pumping Rate:**  
**Flowing Rate:**  
**Recommended Pump Rate:**  
**Levels UOM:**  
**Rate UOM:**  
**Water State After Test Code:**  
**Water State After Test:**  
**Pumping Test Method:**  
**Pumping Duration HR:**  
**Pumping Duration MIN:**  
**Flowing:**

**Hole Diameter**

**Hole ID:** 1003611455  
**Diameter:** 20  
**Depth From:**  
**Depth To:** 6.7  
**Hole Depth UOM:** m  
**Hole Diameter UOM:** cm

**Bore Hole Information**

<b>Bore Hole ID:</b>	1003611498	<b>Elevation:</b>	91.096321
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	442296
<b>Code OB Desc:</b>		<b>North83:</b>	5012279
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>	This is a record from cluster log sheet	<b>UTMRC:</b>	4
<b>Date Completed:</b>	8/16/2010	<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

**Annular Space/Abandonment Sealing Record**

**Plug ID:** 1003611502  
**Layer:**  
**Plug From:**  
**Plug To:**  
**Plug Depth UOM:**

**Method of Construction & Well Use**

**Method Construction ID:**  
**Method Construction Code:**  
**Method Construction:**  
**Other Method Construction:** HSA

**Pipe Information**

**Pipe ID:** 1003611503  
**Casing No:** 0  
**Comment:**  
**Alt Name:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Construction Record - Casing</u></b>					
Casing ID:		1003611505			
Layer:					
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		3			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
<b><u>Construction Record - Screen</u></b>					
Screen ID:		1003611504			
Layer:					
Slot:					
Screen Top Depth:		3			
Screen End Depth:		5.4			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
<b><u>Results of Well Yield Testing</u></b>					
Pump Test ID:		1003611506			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<b><u>Hole Diameter</u></b>					
Hole ID:		1003611500			
Diameter:		20			
Depth From:					
Depth To:		5.4			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<a href="#">15</a>	1 of 2	NE/212.5	92.0 / 7.77	lot 13 con 2 NEPEAN ON	WWIS
Well ID:	7278704			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Test Hole			Date Received:	1/10/2017
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Supply			Abandonment Rec:	Yes
Water Type:				Contractor:	4875

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Casing Material:</b>				<b>Form Version:</b>	7
<b>Audit No:</b>	Z220194			<b>Owner:</b>	
<b>Tag:</b>	A166318			<b>Street Name:</b>	3401 GREENBANK RD
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	013
<b>Well Depth:</b>				<b>Concession:</b>	02
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>		1006330968		<b>Elevation:</b>	93.691032
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	441983
<b>Code OB Desc:</b>				<b>North83:</b>	5012061
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>		12/5/2016		<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1006493018			
<b>Layer:</b>		1			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		01			
<b>Other Materials:</b>		FILL			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		1			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1006493021			
<b>Layer:</b>		4			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		11			
<b>Other Materials:</b>		GRAVEL			
<b>Mat3:</b>		63			
<b>Other Materials:</b>		COARSE-GRAINED			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation Top Depth:</b>		9.5			
<b>Formation End Depth:</b>		11			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1006493019			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		34			
<b>Most Common Material:</b>		TILL			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>		05			
<b>Other Materials:</b>		CLAY			
<b>Formation Top Depth:</b>		1			
<b>Formation End Depth:</b>		7			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1006493020			
<b>Layer:</b>		3			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		84			
<b>Other Materials:</b>		SILTY			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		7			
<b>Formation End Depth:</b>		9.5			
<b>Formation End Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1006493030			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		6			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1006493016			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>			1006493026		
<b>Layer:</b>			1		
<b>Material:</b>			1		
<b>Open Hole or Material:</b>			STEEL		
<b>Depth From:</b>			-0.81		
<b>Depth To:</b>			8.04		
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>			cm		
<b>Casing Depth UOM:</b>			m		
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>			1006493027		
<b>Layer:</b>			1		
<b>Slot:</b>			25		
<b>Screen Top Depth:</b>			8.04		
<b>Screen End Depth:</b>			9.26		
<b>Screen Material:</b>			8		
<b>Screen Depth UOM:</b>			m		
<b>Screen Diameter UOM:</b>			cm		
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>			1006493017		
<b>Pump Set At:</b>					
<b>Static Level:</b>			4.8		
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b>					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b>			m		
<b>Rate UOM:</b>			LPM		
<b>Water State After Test Code:</b>			0		
<b>Water State After Test:</b>					
<b>Pumping Test Method:</b>			0		
<b>Pumping Duration HR:</b>					
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>			N		
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>			1006493022		
<b>Diameter:</b>			22.86		
<b>Depth From:</b>			0		
<b>Depth To:</b>			6		
<b>Hole Depth UOM:</b>			m		
<b>Hole Diameter UOM:</b>			cm		
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>			1006493023		
<b>Diameter:</b>			15.58		
<b>Depth From:</b>			6		
<b>Depth To:</b>			8.04		
<b>Hole Depth UOM:</b>			m		
<b>Hole Diameter UOM:</b>			cm		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Hole Diameter</u></b>					
Hole ID:		1006493024			
Diameter:		12.7			
Depth From:		8.04			
Depth To:		9.26			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<b>15</b>	<b>2 of 2</b>	<b>NE/212.5</b>	<b>92.0 / 7.77</b>	<b>lot 12 con 2 Ottawa ON</b>	<b>WWIS</b>
<b>Well ID:</b>	7298092			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>	Not Used			<b>Date Received:</b>	10/31/2017
<b>Sec. Water Use:</b>				<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Abandoned-Supply			<b>Abandonment Rec:</b>	Yes
<b>Water Type:</b>				<b>Contractor:</b>	4875
<b>Casing Material:</b>				<b>Form Version:</b>	7
<b>Audit No:</b>	Z252098			<b>Owner:</b>	
<b>Tag:</b>	A166318			<b>Street Name:</b>	3401 GREENBANK
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	02
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					

**Bore Hole Information**

<b>Bore Hole ID:</b>	1006785069			<b>Elevation:</b>	93.693984
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	441983
<b>Code OB Desc:</b>				<b>North83:</b>	5012061
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	6/30/2017			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

**Annular Space/Abandonment  
Sealing Record**

<b>Plug ID:</b>	1006956039
<b>Layer:</b>	1
<b>Plug From:</b>	0
<b>Plug To:</b>	9.26
<b>Plug Depth UOM:</b>	m

**Annular Space/Abandonment  
Sealing Record**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Plug ID:</b>		1006956040			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		9.26			
<b>Plug Depth UOM:</b>		m			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1006956030			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1006956035			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0			
<b>Depth To:</b>		8.04			
<b>Casing Diameter:</b>		15.88			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1006956036			
<b>Layer:</b>		1			
<b>Slot:</b>		25			
<b>Screen Top Depth:</b>		8.04			
<b>Screen End Depth:</b>		9.26			
<b>Screen Material:</b>		1			
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>		cm			
<b>Screen Diameter:</b>		13.47			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1006956031			
<b>Pump Set At:</b>					
<b>Static Level:</b>		4.95			
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b>					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b>		m			
<b>Rate UOM:</b>		LPM			
<b>Water State After Test Code:</b>		0			
<b>Water State After Test:</b>					
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>					
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1006956033			
<b>Diameter:</b>		15.24			
<b>Depth From:</b>		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		9.26			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>16</u>	1 of 1	NNE/231.9	91.6 / 7.38	ON	BORE
<b>Borehole ID:</b>	612013			<b>Inclin FLG:</b>	No
<b>OGF ID:</b>	215513323			<b>SP Status:</b>	Initial Entry
<b>Status:</b>				<b>Surv Elev:</b>	No
<b>Type:</b>	Borehole			<b>Piezometer:</b>	No
<b>Use:</b>				<b>Primary Name:</b>	
<b>Completion Date:</b>				<b>Municipality:</b>	
<b>Static Water Level:</b>	0.3			<b>Lot:</b>	
<b>Primary Water Use:</b>				<b>Township:</b>	
<b>Sec. Water Use:</b>				<b>Latitude DD:</b>	45.260194
<b>Total Depth m:</b>	-999			<b>Longitude DD:</b>	-75.740645
<b>Depth Ref:</b>	Ground Surface			<b>UTM Zone:</b>	18
<b>Depth Elev:</b>				<b>Easting:</b>	441891
<b>Drill Method:</b>				<b>Northing:</b>	5012122
<b>Orig Ground Elev m:</b>	93			<b>Location Accuracy:</b>	
<b>Elev Reliabil Note:</b>				<b>Accuracy:</b>	Not Applicable
<b>DEM Ground Elev m:</b>	94.1				
<b>Concession:</b>					
<b>Location D:</b>					
<b>Survey D:</b>					
<b>Comments:</b>					

#### Borehole Geology Stratum

<b>Geology Stratum ID:</b>	218389813			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	0			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>	5.8			<b>Material Texture:</b>	
<b>Material Color:</b>				<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Till			<b>Geologic Formation:</b>	
<b>Material 2:</b>				<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>	TILL.				
<b>Geology Stratum ID:</b>	218389814			<b>Mat Consistency:</b>	
<b>Top Depth:</b>	5.8			<b>Material Moisture:</b>	
<b>Bottom Depth:</b>				<b>Material Texture:</b>	
<b>Material Color:</b>	Black			<b>Non Geo Mat Type:</b>	
<b>Material 1:</b>	Bedrock			<b>Geologic Formation:</b>	
<b>Material 2:</b>	Limestone			<b>Geologic Group:</b>	
<b>Material 3:</b>				<b>Geologic Period:</b>	
<b>Material 4:</b>				<b>Depositional Gen:</b>	
<b>Gsc Material Description:</b>					
<b>Stratum Description:</b>	BEDROCK,LIMESTONE. WATER STABLE AT 304.0 FEET.TE,SAND. BLACK. 00080CK. SEISMIC VELOCITY =				
	**Note: Many records provided by the department have a truncated [Stratum Description] field.				

#### Source

<b>Source Type:</b>	Data Survey	<b>Source Appl:</b>	Spatial/Tabular
<b>Source Orig:</b>	Geological Survey of Canada	<b>Source Ident:</b>	1
<b>Source Date:</b>	1956-1972	<b>Scale or Res:</b>	Varies
<b>Confidence:</b>	M	<b>Horizontal:</b>	NAD27
<b>Observatio:</b>		<b>Verticalda:</b>	Mean Average Sea Level
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)		
<b>Source Details:</b>	File: OTTAWA1.txt RecordID: 045210 NTS_Sheet: 31G05B		
<b>Confiden 1:</b>	Reliable information but incomplete.		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Source List</b>					
<b>Source Identifier:</b>	1			<b>Horizontal Datum:</b>	NAD27
<b>Source Type:</b>	Data Survey			<b>Vertical Datum:</b>	Mean Average Sea Level
<b>Source Date:</b>	1956-1972			<b>Projection Name:</b>	Universal Transverse Mercator
<b>Scale or Resolution:</b>	Varies				
<b>Source Name:</b>	Urban Geology Automated Information System (UGAIS)				
<b>Source Originators:</b>	Geological Survey of Canada				

<a href="#">17</a>	1 of 1	NE/233.9	91.9 / 7.76	lot 12 con 2 ON	WWIS
<b>Well ID:</b>	1509671			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	1
<b>Primary Water Use:</b>	Domestic			<b>Date Received:</b>	6/13/1968
<b>Sec. Water Use:</b>	0			<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Water Supply			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	1503
<b>Casing Material:</b>				<b>Form Version:</b>	1
<b>Audit No:</b>				<b>Owner:</b>	
<b>Tag:</b>				<b>Street Name:</b>	
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	012
<b>Well Depth:</b>				<b>Concession:</b>	02
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	RF
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					

**Bore Hole Information**

<b>Bore Hole ID:</b>	10031703			<b>Elevation:</b>	93.737586
<b>DP2BR:</b>	35			<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>	r			<b>East83:</b>	441990.7
<b>Code OB Desc:</b>	Bedrock			<b>North83:</b>	5012082
<b>Open Hole:</b>				<b>Org CS:</b>	
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	5/15/1968			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	p4
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

**Overburden and Bedrock**

**Materials Interval**

<b>Formation ID:</b>	931012744
<b>Layer:</b>	2
<b>Color:</b>	
<b>General Color:</b>	
<b>Mat1:</b>	09
<b>Most Common Material:</b>	MEDIUM SAND
<b>Mat2:</b>	



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		12			
<b>Formation End Depth:</b>		26			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931012747			
<b>Layer:</b>		5			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		15			
<b>Most Common Material:</b>		LIMESTONE			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		35			
<b>Formation End Depth:</b>		169			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931012746			
<b>Layer:</b>		4			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		14			
<b>Most Common Material:</b>		HARDPAN			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		33			
<b>Formation End Depth:</b>		35			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931012745			
<b>Layer:</b>		3			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		14			
<b>Most Common Material:</b>		HARDPAN			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		26			
<b>Formation End Depth:</b>		33			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931012743			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Layer:</b>		1			
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>		13			
<b>Other Materials:</b>		BOULDERS			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		12			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>					
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10580273			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930056043			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		38			
<b>Casing Diameter:</b>		5			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930056044			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>					
<b>Depth To:</b>		169			
<b>Casing Diameter:</b>		5			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		991509671			
<b>Pump Set At:</b>					
<b>Static Level:</b>		11			
<b>Final Level After Pumping:</b>		75			
<b>Recommended Pump Depth:</b>		100			
<b>Pumping Rate:</b>		7			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		2			
<b>Water State After Test:</b>		CLOUDY			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		N			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933464561			
<b>Layer:</b>		2			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		167			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933464560			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		145			
<b>Water Found Depth UOM:</b>		ft			

18      1 of 1      **NNE/233.9**      **90.7 / 6.51**      **NEPEAN ON**      **WWIS**

<b>Well ID:</b>	7165137	<b>Data Entry Status:</b>	
<b>Construction Date:</b>		<b>Data Src:</b>	
<b>Primary Water Use:</b>	Domestic	<b>Date Received:</b>	7/13/2011
<b>Sec. Water Use:</b>		<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Alteration	<b>Abandonment Rec:</b>	
<b>Water Type:</b>		<b>Contractor:</b>	6357
<b>Casing Material:</b>		<b>Form Version:</b>	7
<b>Audit No:</b>	Z131380	<b>Owner:</b>	
<b>Tag:</b>	A116134	<b>Street Name:</b>	3380 GREENBANK RD
<b>Construction Method:</b>		<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>		<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>		<b>Site Info:</b>	
<b>Depth to Bedrock:</b>		<b>Lot:</b>	
<b>Well Depth:</b>		<b>Concession:</b>	
<b>Overburden/Bedrock:</b>		<b>Concession Name:</b>	
<b>Pump Rate:</b>		<b>Easting NAD83:</b>	
<b>Static Water Level:</b>		<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>		<b>Zone:</b>	
<b>Flow Rate:</b>		<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>			

**Bore Hole Information**

<b>Bore Hole ID:</b>	1003532660	<b>Elevation:</b>	94.552093
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>		<b>East83:</b>	441914
<b>Code OB Desc:</b>		<b>North83:</b>	5012119
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>		<b>UTMRC:</b>	3
<b>Date Completed:</b>	6/28/2011	<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003865542			
<b>Layer:</b>		1			
<b>Plug From:</b>		0.05			
<b>Plug To:</b>		1.3			
<b>Plug Depth UOM:</b>		m			
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003865533			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003865537			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0.5			
<b>Depth To:</b>		1.3			
<b>Casing Diameter:</b>		15.86			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003865538			
<b>Layer:</b>		2			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		1.3			
<b>Depth To:</b>					
<b>Casing Diameter:</b>		10			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003865539			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>		cm			
<b>Screen Diameter:</b>					
<b><u>Hole Diameter</u></b>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Hole ID:</i>		1003865535			
<i>Diameter:</i>					
<i>Depth From:</i>					
<i>Depth To:</i>					
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			



# Unplottable Summary

Total: **56** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Mattamy (Half Moon Bay) Limited		Ottawa ON	
CA	Mattamy (Half Moon Bay) Limited		Ottawa ON	
CA	Mattamy (Half Moon Bay 3) Limited		Ottawa ON	
CA	Mattamy (Half Moon Bay) Limited		Ottawa ON	
CA	NEPEAN CITY	GREENBANK RD.	NEPEAN CITY ON	
CA	ROCKY PANTALONE - WEST END STATION RESTA	PT. LOT 13 & 14 CONC. 2	NEPEAN CITY ON	
CA	Mattamy (Half Moon Bay) Limited		Ottawa ON	
CA	Mattamy (Half Moon Bay 3) Limited	Ref. Plan 5R-1 3009, 5R-1 6254	Ottawa ON	
CA	City of Ottawa	Lot 13	Ottawa ON	
CA	Mattamy (Half Moon Bay) Limited	Geo. Twp. of Nepean	Ottawa ON	
CA	Kinross Court	Part of Lot 13, Concession	Ottawa ON	
CA	CITY	GREENBANK RD./EASEMENT	NEPEAN CITY ON	
CA	CITY	GREENBANK RD./EASEMENT	NEPEAN CITY ON	
CA	South Nepean High School	Part of Lot 13, Concession 2 Rideau Front	Ottawa ON	
CA	South Nepean High School	Part of Lot 13, Concession 2 Rideau Front	Ottawa ON	
CA	Mattamy (Half Moon Bay) Limited	Geo. Twp. of Nepean	Ottawa ON	
CA	Hugh Robert Sparks	Lot 12, Conc. 3, March Tp	Ottawa ON	
CA	Mattamy (Half Moon Bay) Limited		Ottawa ON	

CONV	Mattamy (Half Moon Bay) Limited		Ottawa ON	
ECA	Mattamy (Half Moon Bay) Limited		Ottawa ON	K2K 2M5
ECA	Mattamy (Half Moon Bay) Limited	Part of Lot 11 and 12, Concession 3 (Rideau Front)	Ottawa ON	K2K 2M5
ECA	Mattamy (Half Moon Bay) Limited		Ottawa ON	K2S 1B9
ECA	Mattamy (Half Moon Bay) Limited	Rideau Front, Geographic Township of Nepean	Ottawa ON	K2S 1B9
ECA	Mattamy (Half Moon Bay) Limited		Ottawa ON	K2K 2M5
ECA	Mattamy (Half Moon Bay) Limited	Rideau Front, Geographic Township of Nepean	Ottawa ON	K2S 1B9
ECA	Mattamy (Half Moon Bay 3) Limited		Ottawa ON	K2S 1B9
ECA	Mattamy (Half Moon Bay) Limited		Ottawa ON	K2S 1B9
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3	OTTAWA ON	NULL
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3	OTTAWA ON	NULL
GEN	NEPEAN HYDRO	BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD	NEPEAN ON	K2C 3G2
GEN	NEPEAN HYDRO 28-588	BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD	NEPEAN ON	K2C 3G2
GEN	IMPERIAL OIL 37-320	LESLIE PARK EAST-GREENBANK RD PL 551284 LT.C NEPEAN C/O 605 INDUSTRIAL AVE.	OTTAWA ON	K1G 3K4
GEN	IMPERIAL OIL	LESLIE PARK EAST-GREENBANK ROAD PLAN 551284, LOT C	NEPEAN ON	
LIMO	The Corporation of the Township of West Carleton Torbolton Township	Lot 12. Concession 2 Ottawa	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City	of Ottawa CITY OF OTTAWA Nepean ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean	ON	
PTTW	Taggart Construction Limited	Cambrian Road Lot: 11 & 12, Concession: 2, near Greenbank Road (Half Moon Bay (Tamarack)), Ottawa, City + + + + Strandherd Drive Lot: 14 & 15, Concession: 3,	at Fraser-Clark Drain, Ottawa, City CITY OF OTTAWA Nepean ON	
PTTW	Minto Communities Canada Inc.	Lot 12 and 13, Concession 2, Geographic Township: NEPEAN City of Ottawa, Ontario UTM Easting: 442170, UTM Northing: 5012363 NEPEAN	ON	

PTTW	Mattamy (Half Moon Bay) Limited	Lot 11, 12, Concession 3, Ottawa, City	CITY OF OTTAWA	ON
SPL	City of Ottawa	Greenbank Rd northbound at Belman Rd (N of Hunt Club)		Ottawa ON
SPL	Clean Water Works Inc.; City of Ottawa	Greenbank Rd		Ottawa ON
SPL	PRIVATE OWNER	JOCK RIVER AT GREENBANK RD. MOTOR VEHICLE (OPERATING FLUID)		NEPEAN CITY ON
WWIS		lot 12 con 2		ON
WWIS		lot 12 con 3		GREELY ON
WWIS		lot 12 con 2		ON
WWIS		con 2		ON
WWIS		lot 12		ON
WWIS		con 2		ON
WWIS		lot 13		ON
WWIS		lot 12		ON
WWIS		lot 13		ON
WWIS		lot 12		ON
WWIS		con 2		ON
WWIS		con 2		ON
WWIS		con 2		ON
WWIS		con 2		ON

# Unplottable Report

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 0804-89QHMU  
**Application Year:** 2010  
**Issue Date:** 10/4/2010  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 2758-7X2KYB  
**Application Year:** 2009  
**Issue Date:** 10/22/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay 3) Limited*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 2539-8KRPBJ  
**Application Year:** 2011  
**Issue Date:** 8/18/2011  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 9696-8ASHGQ  
**Application Year:** 2010

**Issue Date:** 11/12/2010  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** **NEPEAN CITY  
GREENBANK RD. NEPEAN CITY ON**

**Database:**  
**CA**

**Certificate #:** 3-1646-88-  
**Application Year:** 88  
**Issue Date:** 9/15/1988  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** **ROCKY PANTALONE - WEST END STATION RESTA  
PT. LOT 13 & 14 CONC. 2 NEPEAN CITY ON**

**Database:**  
**CA**

**Certificate #:** 8-4088-96-  
**Application Year:** 96  
**Issue Date:** 4/10/1996  
**Approval Type:** Industrial air  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:** KITCHEN EXHAUST FOR RESTAURANT  
**Contaminants:**  
**Emission Control:**

---

**Site:** **Mattamy (Half Moon Bay) Limited  
Ottawa ON**

**Database:**  
**CA**

**Certificate #:** 4308-7GZQPE  
**Application Year:** 2008  
**Issue Date:** 8/21/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Revoked and/or Replaced  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---



**Site:** *Mattamy (Half Moon Bay 3) Limited*  
*Ref. Plan 5R-1 3009, 5R-1 6254 Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 0173-8GBHW6  
**Application Year:** 2011  
**Issue Date:** 4/29/2011  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *City of Ottawa*  
*Lot 13 Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 3399-6BVHAA  
**Application Year:** 2005  
**Issue Date:** 6/10/2005  
**Approval Type:** Air  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Geo. Twp. of Nepean Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 8279-7XBM9P  
**Application Year:** 2009  
**Issue Date:** 11/9/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Kinross Court*  
*Part of Lot 13, Concession Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 0660-53CRDY  
**Application Year:** 01  
**Issue Date:** 10/11/01  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Tenth Line Development Inc.  
**Client Address:** 210 Gladstone Avenue, Suite 2001  
**Client City:** Ottawa  
**Client Postal Code:** K2P 0Y6  
**Project Description:** Storm sewer construction.

**Contaminants:**  
**Emission Control:**

---

**Site:** CITY  
GREENBANK RD./EASEMENT NEPEAN CITY ON

**Database:**  
CA

**Certificate #:** 3-0235-85-006  
**Application Year:** 85  
**Issue Date:** 4/2/85  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** CITY  
GREENBANK RD./EASEMENT NEPEAN CITY ON

**Database:**  
CA

**Certificate #:** 3-0207-85-006  
**Application Year:** 85  
**Issue Date:** 3/21/85  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** South Nepean High School  
Part of Lot 13, Concession 2 Rideau Front Ottawa ON

**Database:**  
CA

**Certificate #:** 2054-57GJUQ  
**Application Year:** 02  
**Issue Date:** 2/20/02  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Ottawa carleton Catholic School Board  
**Client Address:** 1224 Main St.  
**Client City:** Stittsville  
**Client Postal Code:** K2S 1B2  
**Project Description:** On-site storm drainage system with an off-site drainage swale forming a stormwater management system.  
**Contaminants:**  
**Emission Control:**

---

**Site:** South Nepean High School  
Part of Lot 13, Concession 2 Rideau Front Ottawa ON

**Database:**  
CA

**Certificate #:** 5530-56PKWF  
**Application Year:** 02  
**Issue Date:** 3/8/02  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval

**Client Name:** Ottawa carleton Catholic School Board  
**Client Address:** 1224 Main St.  
**Client City:** Stittsville  
**Client Postal Code:** K2S 1B2  
**Project Description:** Sanitary sewer collection system, sewage pumping station, sanitary forcemain and sanitary sewer construction  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Geo. Twp. of Nepean Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 7789-7T4L5U  
**Application Year:** 2009  
**Issue Date:** 6/17/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** *Hugh Robert Sparks*  
*Lot 12, Conc. 3, March Tp Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 7694-6AHJ4J  
**Application Year:** 2005  
**Issue Date:** 3/17/2005  
**Approval Type:** Waste Management Systems  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 9531-7EZK5S  
**Application Year:** 2008  
**Issue Date:** 6/5/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

---

**Site:** *Mattamy (Half Moon Bay) Limited*  
*Ottawa ON*

**Database:**  
*CONV*

**File No:** 073001

**Location:**

**Crown Brief No:**  
**Court Location:**  
**Publication City:**  
**Publication Title:**  
**Act:**  
**Act(s):**  
**First Matter:**  
**Second Matter:**  
**Investigation 1:**  
**Investigation 2:**  
**Penalty Imposed:**  
**Description:**

**Region:**  
**Ministry District:**

On June 24, 2010, Mattamy (Half Moon Bay) Limited was convicted of two violations for operating a waste disposal site without a Certificate of Approval and failing to conduct a waste audit covering the waste. The Court heard that the company is developing a residential housing subdivision known as Half Moon Bay in the City of Ottawa. On March 21, 2009, ministry staff conducted an inspection of the housing development and observed an employee burning wood waste in an open fire pit. The employee indicated it was the company's practice to burn leftover wood materials at the construction site. No approval had been issued by the ministry. In April 2009, ministry staff followed up with the company and inquired whether it had completed a waste audit and learned that it had not. The company completed and provided a final waste audit to the ministry on May 7, 2009. The company was charged following an investigation by the ministry's Investigations and Enforcement Branch. The company was fined \$24,000 plus a victim fine surcharge and given 60 days to pay the fine.

**Background:**  
**URL:**

**Additional Details**

**Publication Date:**  
**Count:** 2  
**Act:**  
**Regulation:**  
**Section:**  
**Act/Regulation/Section:**  
**Date of Offence:**  
**Date of Conviction:**  
**Date Charged:** June 24, 2010  
**Charge Disposition:** fine, victim fine surcharge  
**Fine:** \$24,000  
**Synopsis:**

---

**Site:** **Mattamy (Half Moon Bay) Limited**  
**Ottawa ON K2K 2M5**

**Database:**  
**ECA**

**Approval No:** 3263-BKWJW9  
**Approval Date:** 2020-01-28  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:**  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/7762-BKGSBE-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:** -8432476.3632  
**Geometry Y:** 5661347.138499998

---

**Site:** **Mattamy (Half Moon Bay) Limited**  
**Part of Lot 11 and 12, Concession 3 (Rideau Front) Ottawa ON K2K 2M5**

**Database:**  
**ECA**

**Approval No:** 8294-AWMJGE  
**Approval Date:** 2018-03-09  
**Status:** Revoked and/or Replaced  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** Part of Lot 11 and 12, Concession 3 (Rideau Front)  
**Full Address:**

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**

**Site:** *Mattamy (Half Moon Bay) Limited*  
Ottawa ON K2S 1B9

**Database:**  
ECA

**Approval No:** 6310-7EVLJSJ  
**Approval Date:** 2008-05-23  
**Status:** Revoked and/or Replaced  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-Municipal Drinking Water Systems  
**Project Type:** Municipal Drinking Water Systems  
**Address:**  
**Full Address:**  
**Full PDF Link:**

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**

**Site:** *Mattamy (Half Moon Bay) Limited*  
Rideau Front, Geographic Township of Nepean Ottawa ON K2S 1B9

**Database:**  
ECA

**Approval No:** 4522-7FBRPC  
**Approval Date:** 2008-06-13  
**Status:** Revoked and/or Replaced  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** Rideau Front, Geographic Township of Nepean  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/0088-7F4LRQ-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**

**Site:** *Mattamy (Half Moon Bay) Limited*  
Ottawa ON K2K 2M5

**Database:**  
ECA

**Approval No:** 3997-BF2GWX  
**Approval Date:** 2019-08-16  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:**  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/7167-BEKRBP-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:** -8432475.9179  
**Geometry Y:** 5661347.138499998

**Site:** *Mattamy (Half Moon Bay) Limited*  
Rideau Front, Geographic Township of Nepean Ottawa ON K2S 1B9

**Database:**  
ECA

**Approval No:** 6638-7FQSS8  
**Approval Date:** 2008-07-11  
**Status:** Revoked and/or Replaced  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** Rideau Front, Geographic Township of Nepean  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/0913-7FQQC5-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**



**Site:** *Mattamy (Half Moon Bay 3) Limited  
Ottawa ON K2S 1B9*

**Database:**  
*ECA*

**Approval No:** 2539-8KRPBJ  
**Approval Date:** 2011-08-18  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:**  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/2386-8KKHNN-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**

**Site:** *Mattamy (Half Moon Bay) Limited  
Ottawa ON K2S 1B9*

**Database:**  
*ECA*

**Approval No:** 9531-7EZK5S  
**Approval Date:** 2008-06-05  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**SWP Area Name:**  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:**  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/9564-7EPREX-14.pdf>

**MOE District:**  
**City:**  
**Longitude:**  
**Latitude:**  
**Geometry X:**  
**Geometry Y:**

**Site:** *HYLANDS GOLF CLUB  
LOT 13 14 & 15 CON 3 OTTAWA ON NULL*

**Database:**  
*FST*

**Instance No:** 10904209  
**Cont Name:**  
**Instance Type:** FS Liquid Fuel Tank  
**Fuel Type:** Diesel  
**Status:** Active  
**Capacity:** 4540  
**Tank Material:** Steel  
**Corrosion Protection:** Impressed Current  
**Tank Type:** Single Wall UST  
**Install Year:** 1990  
**Parent Facility Type:** Fuels Safety Private Fuel Outlet - Self Serve  
**Facility Type:** FS Liquid Fuel Tank

**Site:** *HYLANDS GOLF CLUB  
LOT 13 14 & 15 CON 3 OTTAWA ON NULL*

**Database:**  
*FST*

**Instance No:** 10904186  
**Cont Name:**  
**Instance Type:** FS Liquid Fuel Tank  
**Fuel Type:** Gasoline  
**Status:** Active  
**Capacity:** 10000  
**Tank Material:** Steel  
**Corrosion Protection:** Impressed Current  
**Tank Type:** Single Wall UST  
**Install Year:** 1990  
**Parent Facility Type:** Fuels Safety Private Fuel Outlet - Self Serve  
**Facility Type:** FS Liquid Fuel Tank

**Site:** *NEPEAN HYDRO*

**Database:**  
*GEN*

**BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD NEPEAN ON K2C 3G2**

**Generator No:** ON0453105 **PO Box No:**  
**Status:** **Country:**  
**Approval Years:** 89,90 **Choice of Contact:**  
**Contam. Facility:** **Co Admin:**  
**MHSW Facility:** **Phone No Admin:**  
**SIC Code:** 4911  
**SIC Description:** ELECT. POWER SYS.

**Detail(s)**

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

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

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**Site:** **NEPEAN HYDRO 28-588** **Database:**  
**BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD NEPEAN ON K2C 3G2** **GEN**

**Generator No:** ON0453105 **PO Box No:**  
**Status:** **Country:**  
**Approval Years:** 92,93,94,95,96,97,98 **Choice of Contact:**  
**Contam. Facility:** **Co Admin:**  
**MHSW Facility:** **Phone No Admin:**  
**SIC Code:** 4911  
**SIC Description:** ELECT. POWER SYS.

**Detail(s)**

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

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

---

**Site:** **IMPERIAL OIL 37-320** **Database:**  
**LESLIE PARK EAST-GREENBANK RD PL 551284 LT.C NEPEAN C/O 605 INDUSTRIAL AVE. OTTAWA ON K1G 3K4** **GEN**

**Generator No:** ON1315711 **PO Box No:**  
**Status:** **Country:**  
**Approval Years:** 94,95,96 **Choice of Contact:**  
**Contam. Facility:** **Co Admin:**  
**MHSW Facility:** **Phone No Admin:**  
**SIC Code:** 5111  
**SIC Description:** PETROLEUM PROD., WH.

**Detail(s)**

**Waste Class:** 221  
**Waste Class Desc:** LIGHT FUELS

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**Site:** **IMPERIAL OIL** **Database:**  
**LESLIE PARK EAST-GREENBANK ROAD PLAN 551284, LOT C NEPEAN ON** **GEN**

**Generator No:** ON1315711 **PO Box No:**  
**Status:** **Country:**  
**Approval Years:** 92,93,97,98,99,00,01 **Choice of Contact:**  
**Contam. Facility:** **Co Admin:**  
**MHSW Facility:** **Phone No Admin:**  
**SIC Code:** 5111  
**SIC Description:** PETROLEUM PROD., WH.

**Detail(s)**

Waste Class: 221  
Waste Class Desc: LIGHT FUELS

**Site:** The Corporation of the Township of West Carleton Torbolton Township  
Lot 12, Concession 2 Ottawa ON

**Database:**  
LIMO

<b>ECA/Instrument No:</b>	A461006	<b>Natural Attenuation:</b>	
<b>Oper Status 2016:</b>	Closed	<b>Liners:</b>	
<b>C of A Issue Date:</b>		<b>Cover Material:</b>	
<b>C of A Issued to:</b>		<b>Leachate Off-Site:</b>	
<b>Lndfl Gas Mgmt (P):</b>		<b>Leachate On Site:</b>	
<b>Lndfl Gas Mgmt (F):</b>		<b>Req Coll Lndfl Gas:</b>	
<b>Lndfl Gas Mgmt (E):</b>		<b>Lndfl Gas Coll:</b>	
<b>Lndfl Gas Mgmt Sys:</b>		<b>Total Waste Rec:</b>	
<b>Landfill Gas Mntr:</b>		<b>TWR Methodology:</b>	
<b>Leachate Coll Sys:</b>		<b>TWR Unit:</b>	
<b>ERC Est Vol (m3):</b>		<b>Tot Aprv Cap Unit:</b>	
<b>ERC Volume Unit:</b>		<b>Financial Assurance:</b>	
<b>ERC Dt Last Det:</b>		<b>Last Report Year:</b>	
<b>Landfill Type:</b>		<b>MOE Region:</b>	
<b>Source File Type:</b>		<b>MOE District:</b>	
<b>Fill Rate:</b>		<b>Site County:</b>	
<b>Fill Rate Unit:</b>		<b>Lot:</b>	
<b>Tot Fill Area (ha):</b>		<b>Concession:</b>	
<b>Tot Site Area (ha):</b>		<b>Latitude:</b>	
<b>Footprint:</b>		<b>Longitude:</b>	
<b>Tot Aprv Cap (m3):</b>		<b>Easting:</b>	
<b>Contam Atten Zone:</b>		<b>Northing:</b>	
<b>Grndwtr Mntr:</b>		<b>UTM Zone:</b>	
<b>Surf Wtr Mntr:</b>		<b>Data Source:</b>	
<b>Air Emis Monitor:</b>			
<b>Approved Waste Type:</b>			
<b>Client Site Name:</b>			
<b>ERC Methodology:</b>			
<b>Site Name:</b>	The Corporation of the Township of West Carleton Torbolton Township		

**Site Location Details:**  
**Service Area:**  
**Page URL:**

**Site:** Mattamy (Half Moon Bay) Limited  
Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3,  
Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean ON

**Database:**  
PTTW

<b>EBR Registry No:</b>	012-5618	<b>Decision Posted:</b>	
<b>Ministry Ref No:</b>	6071-A3PQPJ	<b>Exception Posted:</b>	
<b>Notice Type:</b>	Instrument Decision	<b>Section:</b>	
<b>Notice Stage:</b>		<b>Act 1:</b>	
<b>Notice Date:</b>	February 01, 2016	<b>Act 2:</b>	
<b>Proposal Date:</b>	November 03, 2015	<b>Site Location Map:</b>	
<b>Year:</b>	2015		
<b>Instrument Type:</b>	(OWRA s. 34) - Permit to Take Water		
<b>Off Instrument Name:</b>			
<b>Posted By:</b>			
<b>Company Name:</b>	Mattamy (Half Moon Bay) Limited		
<b>Site Address:</b>			
<b>Location Other:</b>			
<b>Proponent Name:</b>			
<b>Proponent Address:</b>	2360 Bristol Circle, Oakville Ontario, Canada L6H 6M5		
<b>Comment Period:</b>			
<b>URL:</b>			

**Site Location Details:**

Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean

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**Site:** *Mattamy (Half Moon Bay) Limited*  
*Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean ON*

**Database:**  
*PTTW*

**EBR Registry No:** 010-4784  
**Ministry Ref No:** 6623-7JUKMA  
**Notice Type:** Instrument Decision  
**Notice Stage:**  
**Notice Date:** April 29, 2009  
**Proposal Date:** October 08, 2008  
**Year:** 2008  
**Instrument Type:** (OWRA s. 34) - Permit to Take Water  
**Off Instrument Name:**  
**Posted By:**  
**Company Name:** Mattamy (Half Moon Bay) Limited  
**Site Address:**  
**Location Other:**  
**Proponent Name:**  
**Proponent Address:** 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9  
**Comment Period:**  
**URL:**

**Decision Posted:**  
**Exception Posted:**  
**Section:**  
**Act 1:**  
**Act 2:**  
**Site Location Map:**

**Site Location Details:**

Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean

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**Site:** *Taggart Construction Limited*  
*Cambrian Road Lot: 11 & 12, Concession: 2, near Greenbank Road (Half Moon Bay (Tamarack)), Ottawa, City + + +*  
*+ Strandherd Drive Lot: 14 & 15, Concession: 3, at Fraser-Clark Drain, Ottawa, City CITY OF OTTAWA Nepean ON*

**Database:**  
*PTTW*

**EBR Registry No:** 010-3795  
**Ministry Ref No:** 1231-7FFJA4  
**Notice Type:** Instrument Decision  
**Notice Stage:**  
**Notice Date:** April 28, 2009  
**Proposal Date:** June 20, 2008  
**Year:** 2008  
**Instrument Type:** (OWRA s. 34) - Permit to Take Water  
**Off Instrument Name:**  
**Posted By:**  
**Company Name:** Taggart Construction Limited  
**Site Address:**  
**Location Other:**  
**Proponent Name:**  
**Proponent Address:** 3187 Albion Rd S, Ottawa Ontario, K1V 8Y3  
**Comment Period:**  
**URL:**

**Decision Posted:**  
**Exception Posted:**  
**Section:**  
**Act 1:**  
**Act 2:**  
**Site Location Map:**

**Site Location Details:**

Cambrian Road Lot: 11 & 12, Concession: 2, near Greenbank Road (Half Moon Bay (Tamarack)), Ottawa, City + + + Strandherd Drive Lot: 14 & 15, Concession: 3, at Fraser-Clark Drain, Ottawa, City CITY OF OTTAWA Nepean

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**Site:** *Minto Communities Canada Inc.*  
*Lot 12 and 13, Concession 2, Geographic Township: NEPEAN City of Ottawa, Ontario UTM Easting: 442170, UTM*  
*Northing: 5012363 NEPEAN ON*

**Database:**  
*PTTW*

**EBR Registry No:** 013-2921  
**Ministry Ref No:** 3551-AY8R3T  
**Notice Type:** Instrument Decision  
**Notice Stage:**  
**Notice Date:** September 19, 2018  
**Proposal Date:** May 02, 2018  
**Decision Posted:** 442170  
**Exception Posted:**  
**Section:**  
**Act 1:** 5012363  
**Act 2:**  
**Site Location Map:**

**Year:** 2018  
**Instrument Type:** Permit to Take Water - OWRA s. 34  
**Off Instrument Name:**  
**Posted By:**  
**Company Name:** Minto Communities Canada Inc.(OWRA s. 34) - Permit to Take Water  
**Site Address:**  
**Location Other:**  
**Proponent Name:** Minto Communities Canada Inc.  
**Proponent Address:** 180 Kent Street  
Ottawa Ontario  
Canada K1P 0B6  
**Comment Period:**  
**URL:** <http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM1MjUx&statusId=MjA3Mzg1&language=en>

**Site Location Details:**

Lot 12 and 13, Concession 2, Geographic Township: NEPEAN

City of Ottawa, Ontario

UTM Easting: 442170, UTM Northing: 5012363  
NEPEAN

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**Site:** **Mattamy (Half Moon Bay) Limited**  
**Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA ON**

**Database:**  
**PTTW**

**EBR Registry No:** 010-5959  
**Ministry Ref No:** 8783-7PCUC4  
**Notice Type:** Instrument Decision  
**Notice Stage:**  
**Notice Date:** June 26, 2009  
**Proposal Date:** February 20, 2009  
**Year:** 2009  
**Instrument Type:** (OWRA s. 34) - Permit to Take Water  
**Off Instrument Name:**  
**Posted By:**  
**Company Name:** Mattamy (Half Moon Bay) Limited  
**Site Address:**  
**Location Other:**  
**Proponent Name:**  
**Proponent Address:** 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9  
**Comment Period:**  
**URL:**

**Decision Posted:**  
**Exception Posted:**  
**Section:**  
**Act 1:**  
**Act 2:**  
**Site Location Map:**

**Site Location Details:**

Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA

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**Site:** **City of Ottawa**  
**Greenbank Rd northbound at Belman Rd (N of Hunt Club) Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 8317-8PB698  
**Site No:**  
**Incident Dt:** 12/6/2011  
**Year:**  
**Incident Cause:**  
**Incident Event:**  
**Contaminant Code:** 27  
**Contaminant Name:** COOLANT (N.O.S.)  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Environment Impact:** Not Anticipated

**Discharger Report:**  
**Material Group:**  
**Health/Env Conseq:**  
**Client Type:**  
**Sector Type:**  
**Agency Involved:**  
**Nearest Watercourse:**  
**Site Address:** Greenbank Rd northbound at Belman Rd (N of Hunt Club)  
**Site District Office:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa

**Nature of Impact:**  
**Receiving Medium:** Sewage - Municipal/Private and Commercial  
**Receiving Env:**  
**MOE Response:** No Field Response  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 12/6/2011  
**Dt Document Closed:**  
**Incident Reason:**  
**Site Name:** Storm CB<UNOFFICIAL>  
**Site County/District:**  
**Site Geo Ref Meth:**  
**Incident Summary:** OC Transpo- coolant to CB  
**Contaminant Qty:** 40 L

**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Map Datum:**  
**SAC Action Class:** Land Spills  
**Source Type:**

---

**Site:** Clean Water Works Inc.; City of Ottawa  
Greenbank Rd Ottawa ON

**Database:**  
**SPL**

**Ref No:** 8678-9X4KTE  
**Site No:** NA  
**Incident Dt:** 6/2/2015  
**Year:**  
**Incident Cause:** Unknown / N/A  
**Incident Event:**  
**Contaminant Code:** 27  
**Contaminant Name:** OIL ADDITIVES  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Environment Impact:**  
**Nature of Impact:** Land  
**Receiving Medium:**  
**Receiving Env:**  
**MOE Response:** N  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 6/2/2015  
**Dt Document Closed:**  
**Incident Reason:** Unknown / N/A  
**Site Name:** Gas line <UNOFFICIAL>  
**Site County/District:**  
**Site Geo Ref Meth:**  
**Incident Summary:** 2000L oily substance in excavated pit  
**Contaminant Qty:** 2000 L

**Discharger Report:**  
**Material Group:**  
**Health/Env Conseq:**  
**Client Type:**  
**Sector Type:**  
**Agency Involved:**  
**Nearest Watercourse:**  
**Site Address:** Greenbank Rd  
**Site District Office:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Map Datum:**  
**SAC Action Class:** Land Spills  
**Source Type:**

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**Site:** PRIVATE OWNER  
JOCK RIVER AT GREENBANK RD. MOTOR VEHICLE (OPERATING FLUID) NEPEAN CITY ON

**Database:**  
**SPL**

**Ref No:** 25410  
**Site No:**  
**Incident Dt:** 9/16/1989  
**Year:**  
**Incident Cause:** OTHER TRANSPORTATION ACCIDENT  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:** WATER  
**Receiving Env:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 9/16/1989  
**Dt Document Closed:**  
**Incident Reason:** ERROR  
**Site Name:**

**Discharger Report:**  
**Material Group:**  
**Health/Env Conseq:**  
**Client Type:**  
**Sector Type:**  
**Agency Involved:**  
**Nearest Watercourse:**  
**Site Address:**  
**Site District Office:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** 20104  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Map Datum:**  
**SAC Action Class:**  
**Source Type:**



Site County/District:  
Site Geo Ref Meth:  
Incident Summary:  
Contaminant Qty:

MOTORIST DROVE CAR INTO JOCK RIVER - 10 L GAS & MOTOR OIL TO RIVER.

**Site:**  
lot 12 con 2 ON

**Database:**  
WWIS

**Well ID:** 1531209  
**Construction Date:**  
**Primary Water Use:** Domestic  
**Sec. Water Use:**  
**Final Well Status:** Water Supply  
**Water Type:**  
**Casing Material:**  
**Audit No:** 208600  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 7/17/2000  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 1558  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:** 012  
**Concession:** 02  
**Concession Name:** CON  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10052743  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** \_  
**Code OB Desc:** No formation data  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 6/8/2000  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

**Method of Construction & Well Use**

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

**Pipe Information**

**Pipe ID:** 10601313  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Results of Well Yield Testing**

**Pump Test ID:** 991531209

**Pump Set At:**  
**Static Level:** 23  
**Final Level After Pumping:** 75  
**Recommended Pump Depth:** 100  
**Pumping Rate:** 10  
**Flowing Rate:**  
**Recommended Pump Rate:** 5  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 2  
**Water State After Test:** CLOUDY  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:**  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934396582  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 125  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934665308  
**Test Type:** Draw Down  
**Test Duration:** 45  
**Test Level:** 125  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934121171  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 125  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934913853  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 125  
**Test Level UOM:** ft

**Site:**  
**lot 12 con 3 GREELY ON**

**Database:**  
**WWIS**

**Well ID:** 7045740  
**Construction Date:**  
**Primary Water Use:** Domestic  
**Sec. Water Use:**  
**Final Well Status:** Test Hole  
**Water Type:**  
**Casing Material:**  
**Audit No:** Z64742  
**Tag:** A052502  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**

**Data Entry Status:**  
**Data Src:**  
**Date Received:** 6/28/2007  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 1119  
**Form Version:** 3  
**Owner:**  
**Street Name:** 1934 STAGECOACH  
**County:** OTTAWA-CARLETON  
**Municipality:** OSGOODE TOWNSHIP  
**Site Info:**  
**Lot:** 012  
**Concession:** 03  
**Concession Name:**

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

Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

**Bore Hole Information**

Bore Hole ID: 11768260  
DP2BR: 19  
Spatial Status:  
Code OB: r  
Code OB Desc: Bedrock  
Open Hole:  
Cluster Kind:  
Date Completed: 2/9/2007  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

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

**Overburden and Bedrock**  
**Materials Interval**

Formation ID: 933106528  
Layer: 4  
Color:  
General Color:  
Mat1: 15  
Most Common Material: LIMESTONE  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 22.86  
Formation End Depth: 24.38  
Formation End Depth UOM: m

**Overburden and Bedrock**  
**Materials Interval**

Formation ID: 933106526  
Layer: 2  
Color:  
General Color:  
Mat1: 15  
Most Common Material: LIMESTONE  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 5.79  
Formation End Depth: 15.24  
Formation End Depth UOM: m

**Overburden and Bedrock**  
**Materials Interval**

Formation ID: 933106527  
Layer: 3  
Color:  
General Color:  
Mat1: 18

**Most Common Material:** SANDSTONE  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 15.24  
**Formation End Depth:** 22.86  
**Formation End Depth UOM:** m

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 933106525  
**Layer:** 1  
**Color:**  
**General Color:**  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:** 11  
**Other Materials:** GRAVEL  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 0  
**Formation End Depth:** 5.79  
**Formation End Depth UOM:** m

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 933106530  
**Layer:** 6  
**Color:**  
**General Color:**  
**Mat1:** 15  
**Most Common Material:** LIMESTONE  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 42.67  
**Formation End Depth:** 48.77  
**Formation End Depth UOM:** m

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 933106529  
**Layer:** 5  
**Color:**  
**General Color:**  
**Mat1:** 18  
**Most Common Material:** SANDSTONE  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 24.38  
**Formation End Depth:** 42.67  
**Formation End Depth UOM:** m

**Annular Space/Abandonment**  
**Sealing Record**

**Plug ID:** 933322350  
**Layer:** 1  
**Plug From:** 7.92

**Plug To:** 4.88  
**Plug Depth UOM:** m

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933322351  
**Layer:** 2  
**Plug From:** 4.88  
**Plug To:** 0  
**Plug Depth UOM:** m

**Method of Construction & Well  
Use**

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

**Pipe Information**

**Pipe ID:** 11775950  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930901845  
**Layer:** 2  
**Material:** 4  
**Open Hole or Material:** OPEN HOLE  
**Depth From:** 7.92  
**Depth To:** 48.77  
**Casing Diameter:**  
**Casing Diameter UOM:** cm  
**Casing Depth UOM:** m

**Construction Record - Casing**

**Casing ID:** 930901844  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:** 0  
**Depth To:** 8.53  
**Casing Diameter:** 15.88  
**Casing Diameter UOM:** cm  
**Casing Depth UOM:** m

**Results of Well Yield Testing**

**Pump Test ID:** 11779669  
**Pump Set At:** 45.72  
**Static Level:** 3.99  
**Final Level After Pumping:** 9.71  
**Recommended Pump Depth:** 45.72  
**Pumping Rate:** 22.71  
**Flowing Rate:**  
**Recommended Pump Rate:** 22.71  
**Levels UOM:** m  
**Rate UOM:** LPM  
**Water State After Test Code:** 2  
**Water State After Test:** CLOUDY

**Pumping Test Method:** 1  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:**  
**Flowing:**

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836350  
**Test Type:** Draw Down  
**Test Duration:** 1  
**Test Level:** 5.18  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836359  
**Test Type:** Recovery  
**Test Duration:** 5  
**Test Level:** 5.49  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836360  
**Test Type:** Draw Down  
**Test Duration:** 10  
**Test Level:** 7.63  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836365  
**Test Type:** Recovery  
**Test Duration:** 20  
**Test Level:** 4.19  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836367  
**Test Type:** Recovery  
**Test Duration:** 25  
**Test Level:** 4.04  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836358  
**Test Type:** Draw Down  
**Test Duration:** 5  
**Test Level:** 6.67  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836361  
**Test Type:** Recovery  
**Test Duration:** 10  
**Test Level:** 4.73  
**Test Level UOM:** m

**Draw Down & Recovery**



**Pump Test Detail ID:** 11836362  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 8.04  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836370  
**Test Type:** Draw Down  
**Test Duration:** 40  
**Test Level:** 9.07  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836372  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 9.71  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836351  
**Test Type:** Recovery  
**Test Duration:** 1  
**Test Level:** 7  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836355  
**Test Type:** Recovery  
**Test Duration:** 3  
**Test Level:** 6  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836363  
**Test Type:** Recovery  
**Test Duration:** 15  
**Test Level:** 4.48  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836368  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 8.76  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836356  
**Test Type:** Draw Down  
**Test Duration:** 4  
**Test Level:** 6.38  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836371  
**Test Type:** Draw Down  
**Test Duration:** 50  
**Test Level:** 9.38  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836364  
**Test Type:** Draw Down  
**Test Duration:** 20  
**Test Level:** 8.45  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836366  
**Test Type:** Draw Down  
**Test Duration:** 25  
**Test Level:** 8.6  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836353  
**Test Type:** Recovery  
**Test Duration:** 2  
**Test Level:** 6.4  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836352  
**Test Type:** Draw Down  
**Test Duration:** 2  
**Test Level:** 5.58  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836354  
**Test Type:** Draw Down  
**Test Duration:** 3  
**Test Level:** 6.03  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836357  
**Test Type:** Recovery  
**Test Duration:** 4  
**Test Level:** 5.75  
**Test Level UOM:** m

**Draw Down & Recovery**

**Pump Test Detail ID:** 11836369  
**Test Type:** Recovery  
**Test Duration:** 30  
**Test Level:** 3.99  
**Test Level UOM:** m

Water Details

Water ID: 934087510  
Layer: 1  
Kind Code:  
Kind:  
Water Found Depth: 41.15  
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11854905  
Diameter: 14.91  
Depth From: 0  
Depth To: 48.77  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Site: lot 12 con 2 ON

Database:  
WWIS

Well ID: 1531208  
Construction Date:  
Primary Water Use: Domestic  
Sec. Water Use:  
Final Well Status: Water Supply  
Water Type:  
Casing Material:  
Audit No: 208601  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

Data Entry Status:  
Data Src: 1  
Date Received: 7/17/2000  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 1558  
Form Version: 1  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: NEPEAN TOWNSHIP  
Site Info:  
Lot: 012  
Concession: 02  
Concession Name: CON  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052742  
DP2BR:  
Spatial Status:  
Code OB: p  
Code OB Desc: Unknown type above a bedrock layer  
Open Hole:  
Cluster Kind:  
Date Completed: 6/8/2000  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

Elevation:  
Elevrc:  
Zone: 18  
East83:  
North83:  
Org CS:  
UTMRC: 9  
UTMRC Desc: unknown UTM  
Location Method: na

Overburden and Bedrock  
Materials Interval

Formation ID: 931077834  
Layer: 2  
Color: 2  
General Color: GREY

Mat1: 15  
Most Common Material: LIMESTONE  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 60  
Formation End Depth: 130  
Formation End Depth UOM: ft

**Overburden and Bedrock  
Materials Interval**

Formation ID: 931077833  
Layer: 1  
Color:  
General Color:  
Mat1: 00  
Most Common Material: UNKNOWN TYPE  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 0  
Formation End Depth: 60  
Formation End Depth UOM: ft

**Method of Construction & Well  
Use**

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

**Pipe Information**

Pipe ID: 10601312  
Casing No: 1  
Comment:  
Alt Name:

**Construction Record - Casing**

Casing ID: 930092211  
Layer: 1  
Material: 4  
Open Hole or Material: OPEN HOLE  
Depth From:  
Depth To:  
Casing Diameter: 6  
Casing Diameter UOM: inch  
Casing Depth UOM: ft

**Results of Well Yield Testing**

Pump Test ID: 991531208  
Pump Set At:  
Static Level: 20  
Final Level After Pumping: 60  
Recommended Pump Depth: 100  
Pumping Rate: 10  
Flowing Rate:  
Recommended Pump Rate: 5  
Levels UOM: ft  
Rate UOM: GPM

**Water State After Test Code:** 2  
**Water State After Test:** CLOUDY  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:**  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934665307  
**Test Type:** Draw Down  
**Test Duration:** 45  
**Test Level:** 110  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934396581  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 125  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934913852  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 60  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934121170  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 125  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 933491572  
**Layer:** 1  
**Kind Code:** 5  
**Kind:** Not stated  
**Water Found Depth:** 121  
**Water Found Depth UOM:** ft

**Site:**  
con 2 ON

**Database:**  
WWIS

**Well ID:** 1529561  
**Construction Date:**  
**Primary Water Use:** Commerical  
**Sec. Water Use:** Municipal  
**Final Well Status:** Observation Wells  
**Water Type:**  
**Casing Material:**  
**Audit No:** 169526  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 8/12/1997  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 6844  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:**  
**Concession:** 02

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

**Concession Name:** OF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10051096  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** o  
**Code OB Desc:** Overburden  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 2/5/1997  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931073140  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 81  
**Other Materials:** SANDY  
**Mat3:** 01  
**Other Materials:** FILL  
**Formation Top Depth:** 0  
**Formation End Depth:** 5  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931073141  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 12  
**Other Materials:** STONES  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 5  
**Formation End Depth:** 15  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment**  
**Sealing Record**

**Plug ID:** 933114577  
**Layer:** 3  
**Plug From:** 4  
**Plug To:** 15



**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114576  
**Layer:** 2  
**Plug From:** 2  
**Plug To:** 4  
**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114575  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 2  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

**Method Construction ID:**  
**Method Construction Code:** 6  
**Method Construction:** Boring  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 10599666  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930089191  
**Layer:** 1  
**Material:** 5  
**Open Hole or Material:** PLASTIC  
**Depth From:**  
**Depth To:** 15  
**Casing Diameter:** 2  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Screen**

**Screen ID:** 933326720  
**Layer:** 1  
**Slot:** 010  
**Screen Top Depth:** 5  
**Screen End Depth:** 15  
**Screen Material:**  
**Screen Depth UOM:** ft  
**Screen Diameter UOM:** inch  
**Screen Diameter:** 2

**Water Details**

**Water ID:** 933489563  
**Layer:** 1  
**Kind Code:** 5

Kind: Not stated  
Water Found Depth: 8  
Water Found Depth UOM: ft

Site:  
lot 12 ON

Database:  
WWIS

Well ID: 1535508  
Construction Date:  
Primary Water Use:  
Sec. Water Use:  
Final Well Status:  
Water Type:  
Casing Material:  
Audit No: Z17642  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

Data Entry Status:  
Data Src:  
Date Received: 5/28/2005  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 6907  
Form Version: 3  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: OTTAWA CITY  
Site Info:  
Lot: 012  
Concession:  
Concession Name:  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11316047  
DP2BR:  
Spatial Status:  
Code OB: -  
Code OB Desc: No formation data  
Open Hole:  
Cluster Kind:  
Date Completed: 5/10/2005  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

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

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 11330902  
Casing No: 1  
Comment:  
Alt Name:

Site:  
con 2 ON

Database:  
WWIS

Well ID: 1529562  
Construction Date:

Data Entry Status:  
Data Src: 1

**Primary Water Use:** Commerical  
**Sec. Water Use:**  
**Final Well Status:** Observation Wells  
**Water Type:**  
**Casing Material:**  
**Audit No:** 169530  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Date Received:** 8/12/1997  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 6844  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:**  
**Concession:** 02  
**Concession Name:** OF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

#### Bore Hole Information

**Bore Hole ID:** 10051097  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** o  
**Code OB Desc:** Overburden  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 2/4/1997  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

#### Overburden and Bedrock

##### Materials Interval

**Formation ID:** 931073142  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 34  
**Most Common Material:** TILL  
**Mat2:** 81  
**Other Materials:** SANDY  
**Mat3:** 11  
**Other Materials:** GRAVEL  
**Formation Top Depth:** 0  
**Formation End Depth:** 5  
**Formation End Depth UOM:** ft

#### Overburden and Bedrock

##### Materials Interval

**Formation ID:** 931073143  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 12  
**Other Materials:** STONES  
**Mat3:**  
**Other Materials:**

**Formation Top Depth:** 5  
**Formation End Depth:** 10  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114578  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 1  
**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114579  
**Layer:** 2  
**Plug From:** 1  
**Plug To:** 3  
**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114580  
**Layer:** 3  
**Plug From:** 3  
**Plug To:** 10  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

**Method Construction ID:**  
**Method Construction Code:** 6  
**Method Construction:** Boring  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 10599667  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930089192  
**Layer:** 1  
**Material:** 5  
**Open Hole or Material:** PLASTIC  
**Depth From:**  
**Depth To:** 10  
**Casing Diameter:** 1  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Screen**

**Screen ID:** 933326721  
**Layer:** 1  
**Slot:** 010  
**Screen Top Depth:** 5

Screen End Depth: 10  
Screen Material:  
Screen Depth UOM: ft  
Screen Diameter UOM: inch  
Screen Diameter: 1

**Water Details**

Water ID: 933489564  
Layer: 1  
Kind Code: 5  
Kind: Not stated  
Water Found Depth: 8  
Water Found Depth UOM: ft

**Site:**  
lot 13 ON

**Database:**  
**WWIS**

Well ID: 1520666  
Construction Date:  
Primary Water Use: Domestic  
Sec. Water Use:  
Final Well Status: Water Supply  
Water Type:  
Casing Material:  
Audit No: NA  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

**Data Entry Status:**  
Data Src: 1  
Date Received: 8/8/1986  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 1517  
Form Version: 1  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: OTTAWA CITY  
Site Info:  
Lot: 013  
Concession:  
Concession Name:  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

**Bore Hole Information**

Bore Hole ID: 10042508  
DP2BR: 0  
Spatial Status:  
Code OB: r  
Code OB Desc: Bedrock  
Open Hole:  
Cluster Kind:  
Date Completed: 7/17/1986  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

**Elevation:**  
Elevrc:  
Zone: 18  
East83:  
North83:  
Org CS:  
UTMRC: 9  
UTMRC Desc: unknown UTM  
Location Method: na

**Overburden and Bedrock**  
**Materials Interval**

Formation ID: 931045467  
Layer: 1  
Color: 2  
General Color: GREY  
Mat1: 15  
Most Common Material: LIMESTONE  
Mat2:

**Other Materials:**

**Mat3:**

**Other Materials:**

**Formation Top Depth:** 0  
**Formation End Depth:** 75  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933109179  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 30  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

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

**Pipe Information**

**Pipe ID:** 10591078  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930074202  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:**  
**Depth To:** 30  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 991520666  
**Pump Set At:**  
**Static Level:** 1  
**Final Level After Pumping:** 40  
**Recommended Pump Depth:** 60  
**Pumping Rate:** 20  
**Flowing Rate:**  
**Recommended Pump Rate:** 70  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:**  
**Water State After Test:**  
**Pumping Test Method:** 2  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934112552



Test Type:  
Test Duration: 15  
Test Level: 20  
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387835  
Test Type:  
Test Duration: 30  
Test Level: 30  
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648438  
Test Type:  
Test Duration: 45  
Test Level: 35  
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907199  
Test Type:  
Test Duration: 60  
Test Level: 40  
Test Level UOM: ft

Water Details

Water ID: 933477982  
Layer: 1  
Kind Code: 1  
Kind: FRESH  
Water Found Depth: 72  
Water Found Depth UOM: ft

Site: lot 12 ON

Database:  
WWIS

Well ID: 1520054  
Construction Date:  
Primary Water Use: Domestic  
Sec. Water Use:  
Final Well Status: Water Supply  
Water Type:  
Casing Material:  
Audit No:  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

Data Entry Status:  
Data Src: 1  
Date Received: 10/2/1985  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 1505  
Form Version: 1  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: NEPEAN TOWNSHIP  
Site Info:  
Lot: 012  
Concession:  
Concession Name:  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10041904 Elevation:

**DP2BR:** 60  
**Spatial Status:**  
**Code OB:** r  
**Code OB Desc:** Bedrock  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 7/8/1985  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931043590  
**Layer:** 2  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 06  
**Most Common Material:** SILT  
**Mat2:** 28  
**Other Materials:** SAND  
**Mat3:** 79  
**Other Materials:** PACKED  
**Formation Top Depth:** 1  
**Formation End Depth:** 2  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931043589  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 01  
**Most Common Material:** FILL  
**Mat2:** 77  
**Other Materials:** LOOSE  
**Mat3:** 79  
**Other Materials:** PACKED  
**Formation Top Depth:** 0  
**Formation End Depth:** 1  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**  
**Materials Interval**

**Formation ID:** 931043591  
**Layer:** 3  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 79  
**Other Materials:** PACKED  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 2  
**Formation End Depth:** 14  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 931043594  
**Layer:** 6  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 15  
**Most Common Material:** LIMESTONE  
**Mat2:** 26  
**Other Materials:** ROCK  
**Mat3:** 73  
**Other Materials:** HARD  
**Formation Top Depth:** 68  
**Formation End Depth:** 75  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 931043593  
**Layer:** 5  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 26  
**Most Common Material:** ROCK  
**Mat2:** 11  
**Other Materials:** GRAVEL  
**Mat3:** 71  
**Other Materials:** FRACTURED  
**Formation Top Depth:** 60  
**Formation End Depth:** 68  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 931043592  
**Layer:** 4  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 13  
**Other Materials:** BOULDERS  
**Mat3:** 60  
**Other Materials:** CEMENTED  
**Formation Top Depth:** 14  
**Formation End Depth:** 60  
**Formation End Depth UOM:** ft

**Method of Construction & Well  
Use**

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

**Pipe Information**

**Pipe ID:** 10590474  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930073157  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:**  
**Depth To:** 73  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 991520054  
**Pump Set At:**  
**Static Level:** 0  
**Final Level After Pumping:** 30  
**Recommended Pump Depth:** 35  
**Pumping Rate:** 50  
**Flowing Rate:**  
**Recommended Pump Rate:** 50  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934376714  
**Test Type:**  
**Test Duration:** 30  
**Test Level:** 30  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934110332  
**Test Type:**  
**Test Duration:** 15  
**Test Level:** 30  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934904434  
**Test Type:**  
**Test Duration:** 60  
**Test Level:** 30  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934655465  
**Test Type:**  
**Test Duration:** 45  
**Test Level:** 30  
**Test Level UOM:** ft

**Water Details**

Water ID: 933477202  
Layer: 1  
Kind Code: 1  
Kind: FRESH  
Water Found Depth: 65  
Water Found Depth UOM: ft

**Site:**  
lot 13 ON

**Database:**  
WWIS

Well ID: 1517753  
Construction Date:  
Primary Water Use: Domestic  
Sec. Water Use:  
Final Well Status: Water Supply  
Water Type:  
Casing Material:  
Audit No:  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

Data Entry Status:  
Data Src: 1  
Date Received: 3/18/1982  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 1558  
Form Version: 1  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: NEPEAN TOWNSHIP  
Site Info:  
Lot: 013  
Concession:  
Concession Name:  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

**Bore Hole Information**

Bore Hole ID: 10039625  
DP2BR: 75  
Spatial Status:  
Code OB: r  
Code OB Desc: Bedrock  
Open Hole:  
Cluster Kind:  
Date Completed: 2/23/1982  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

Elevation:  
Elevrc:  
Zone: 18  
East83:  
North83:  
Org CS:  
UTMRC: 9  
UTMRC Desc: unknown UTM  
Location Method: na

**Overburden and Bedrock**  
**Materials Interval**

Formation ID: 931036220  
Layer: 3  
Color: 2  
General Color: GREY  
Mat1: 28  
Most Common Material: SAND  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 55  
Formation End Depth: 75  
Formation End Depth UOM: ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931036219  
**Layer:** 2  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 5  
**Formation End Depth:** 55  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931036221  
**Layer:** 4  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 18  
**Most Common Material:** SANDSTONE  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 75  
**Formation End Depth:** 175  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931036218  
**Layer:** 1  
**Color:** 7  
**General Color:** RED  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:**  
**Other Materials:**  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 0  
**Formation End Depth:** 5  
**Formation End Depth UOM:** ft

**Method of Construction & Well**

**Use**

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

**Pipe Information**

**Pipe ID:** 10588195  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**



**Casing ID:** 930069265  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:**  
**Depth To:** 76  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Casing**

**Casing ID:** 930069266  
**Layer:** 2  
**Material:** 4  
**Open Hole or Material:** OPEN HOLE  
**Depth From:**  
**Depth To:** 175  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 991517753  
**Pump Set At:**  
**Static Level:** 50  
**Final Level After Pumping:** 100  
**Recommended Pump Depth:** 165  
**Pumping Rate:** 25  
**Flowing Rate:**  
**Recommended Pump Rate:** 5  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934895696  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 100  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934376585  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 100  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934646421  
**Test Type:** Draw Down  
**Test Duration:** 45  
**Test Level:** 100  
**Test Level UOM:** ft

Draw Down & Recovery

**Pump Test Detail ID:** 934102965  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 100  
**Test Level UOM:** ft

Water Details

**Water ID:** 933474291  
**Layer:** 1  
**Kind Code:** 1  
**Kind:** FRESH  
**Water Found Depth:** 85  
**Water Found Depth UOM:** ft

Site: lot 12 ON

**Database:**  
**WWIS**

<b>Well ID:</b>	1523196	<b>Data Entry Status:</b>	
<b>Construction Date:</b>		<b>Data Src:</b>	1
<b>Primary Water Use:</b>		<b>Date Received:</b>	1/9/1989
<b>Sec. Water Use:</b>		<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>		<b>Abandonment Rec:</b>	
<b>Water Type:</b>		<b>Contractor:</b>	5222
<b>Casing Material:</b>		<b>Form Version:</b>	1
<b>Audit No:</b>	39047	<b>Owner:</b>	
<b>Tag:</b>		<b>Street Name:</b>	
<b>Construction Method:</b>		<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>		<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>		<b>Site Info:</b>	
<b>Depth to Bedrock:</b>		<b>Lot:</b>	012
<b>Well Depth:</b>		<b>Concession:</b>	
<b>Overburden/Bedrock:</b>		<b>Concession Name:</b>	
<b>Pump Rate:</b>		<b>Easting NAD83:</b>	
<b>Static Water Level:</b>		<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>		<b>Zone:</b>	
<b>Flow Rate:</b>		<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>			

Bore Hole Information

<b>Bore Hole ID:</b>	10044999	<b>Elevation:</b>	
<b>DP2BR:</b>	8	<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	18
<b>Code OB:</b>	r	<b>East83:</b>	
<b>Code OB Desc:</b>	Bedrock	<b>North83:</b>	
<b>Open Hole:</b>		<b>Org CS:</b>	
<b>Cluster Kind:</b>		<b>UTMRC:</b>	9
<b>Date Completed:</b>	7/15/1988	<b>UTMRC Desc:</b>	unknown UTM
<b>Remarks:</b>		<b>Location Method:</b>	na
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

Overburden and Bedrock

Materials Interval

**Formation ID:** 931053866  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY

**Mat1:** 15  
**Most Common Material:** LIMESTONE  
**Mat2:** 18  
**Other Materials:** SANDSTONE  
**Mat3:** 73  
**Other Materials:** HARD  
**Formation Top Depth:** 8  
**Formation End Depth:** 78  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 931053865  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 01  
**Other Materials:** FILL  
**Mat3:** 79  
**Other Materials:** PACKED  
**Formation Top Depth:** 0  
**Formation End Depth:** 8  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933110155  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 21  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

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

**Pipe Information**

**Pipe ID:** 10593569  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930078707  
**Layer:** 2  
**Material:** 4  
**Open Hole or Material:** OPEN HOLE  
**Depth From:**  
**Depth To:** 78  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Casing**

**Casing ID:** 930078706  
**Layer:** 1  
**Material:** 1  
**Open Hole or Material:** STEEL  
**Depth From:**  
**Depth To:** 22  
**Casing Diameter:** 6  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 991523196  
**Pump Set At:**  
**Static Level:** 8  
**Final Level After Pumping:** 50  
**Recommended Pump Depth:** 50  
**Pumping Rate:** 20  
**Flowing Rate:**  
**Recommended Pump Rate:** 20  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 1  
**Pumping Duration HR:** 2  
**Pumping Duration MIN:** 0  
**Flowing:** N

**Draw Down & Recovery**

**Pump Test Detail ID:** 934649580  
**Test Type:** Draw Down  
**Test Duration:** 45  
**Test Level:** 50  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934388597  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 50  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934906781  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 50  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 934104365  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 50  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 933481372  
**Layer:** 2

Kind Code: 1  
Kind: FRESH  
Water Found Depth: 56  
Water Found Depth UOM: ft

Water Details

Water ID: 933481373  
Layer: 3  
Kind Code: 1  
Kind: FRESH  
Water Found Depth: 72  
Water Found Depth UOM: ft

Water Details

Water ID: 933481371  
Layer: 1  
Kind Code: 1  
Kind: FRESH  
Water Found Depth: 40  
Water Found Depth UOM: ft

Site:  
con 2 ON

Database:  
WWIS

Well ID: 1529331  
Construction Date:  
Primary Water Use: Commerical  
Sec. Water Use:  
Final Well Status: Observation Wells  
Water Type:  
Casing Material:  
Audit No: 169510  
Tag:  
Construction Method:  
Elevation (m):  
Elevation Reliability:  
Depth to Bedrock:  
Well Depth:  
Overburden/Bedrock:  
Pump Rate:  
Static Water Level:  
Flowing (Y/N):  
Flow Rate:  
Clear/Cloudy:

Data Entry Status:  
Data Src: 1  
Date Received: 2/14/1997  
Selected Flag: Yes  
Abandonment Rec:  
Contractor: 6844  
Form Version: 1  
Owner:  
Street Name:  
County: OTTAWA-CARLETON  
Municipality: NEPEAN TOWNSHIP  
Site Info:  
Lot:  
Concession: 02  
Concession Name: OF  
Easting NAD83:  
Northing NAD83:  
Zone:  
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050867  
DP2BR:  
Spatial Status:  
Code OB: o  
Code OB Desc: Overburden  
Open Hole:  
Cluster Kind:  
Date Completed: 12/18/1996  
Remarks:  
Elevrc Desc:  
Location Source Date:  
Improvement Location Source:  
Improvement Location Method:  
Source Revision Comment:  
Supplier Comment:

Elevation:  
Elevrc: 18  
Zone:  
East83:  
North83:  
Org CS:  
UTMRC: 9  
UTMRC Desc: unknown UTM  
Location Method: na

Overburden and Bedrock

**Materials Interval**

**Formation ID:** 931072414  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 02  
**Other Materials:** TOPSOIL  
**Mat3:** 01  
**Other Materials:** FILL  
**Formation Top Depth:** 0  
**Formation End Depth:** 2  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931072415  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 91  
**Other Materials:** WATER-BEARING  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 2  
**Formation End Depth:** 19  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment**

**Sealing Record**

**Plug ID:** 933114304  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 5  
**Plug Depth UOM:** ft

**Annular Space/Abandonment**

**Sealing Record**

**Plug ID:** 933114305  
**Layer:** 2  
**Plug From:** 5  
**Plug To:** 19  
**Plug Depth UOM:** ft

**Method of Construction & Well**

**Use**

**Method Construction ID:**  
**Method Construction Code:** 6  
**Method Construction:** Boring  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 10599437  
**Casing No:** 1  
**Comment:**  
**Alt Name:**



**Construction Record - Casing**

**Casing ID:** 930088796  
**Layer:** 1  
**Material:** 5  
**Open Hole or Material:** PLASTIC  
**Depth From:**  
**Depth To:** 19  
**Casing Diameter:** 2  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Screen**

**Screen ID:** 933326679  
**Layer:** 1  
**Slot:** 010  
**Screen Top Depth:** 9  
**Screen End Depth:** 19  
**Screen Material:**  
**Screen Depth UOM:** ft  
**Screen Diameter UOM:** inch  
**Screen Diameter:** 2

**Water Details**

**Water ID:** 933489270  
**Layer:** 1  
**Kind Code:** 5  
**Kind:** Not stated  
**Water Found Depth:** 9  
**Water Found Depth UOM:** ft

**Site:**  
con 2 ON

**Database:**  
WWIS

**Well ID:** 1529332  
**Construction Date:**  
**Primary Water Use:** Commerical  
**Sec. Water Use:**  
**Final Well Status:** Observation Wells  
**Water Type:**  
**Casing Material:**  
**Audit No:** 169509  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 2/14/1997  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 6844  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:**  
**Concession:** 02  
**Concession Name:** OF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10050868  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** o  
**Code OB Desc:** Overburden  
**Open Hole:**  
**Cluster Kind:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9

Date Completed: 12/18/1996

Remarks:

Elevrc Desc:

Location Source Date:

Improvement Location Source:

Improvement Location Method:

Source Revision Comment:

Supplier Comment:

UTMRC Desc:

unknown UTM

Location Method:

na

**Overburden and Bedrock**

**Materials Interval**

Formation ID: 931072417  
Layer: 2  
Color: 2  
General Color: GREY  
Mat1: 05  
Most Common Material: CLAY  
Mat2: 91  
Other Materials: WATER-BEARING  
Mat3:  
Other Materials:  
Formation Top Depth: 2  
Formation End Depth: 15  
Formation End Depth UOM: ft

**Overburden and Bedrock**

**Materials Interval**

Formation ID: 931072416  
Layer: 1  
Color: 6  
General Color: BROWN  
Mat1: 05  
Most Common Material: CLAY  
Mat2: 02  
Other Materials: TOPSOIL  
Mat3: 01  
Other Materials: FILL  
Formation Top Depth: 0  
Formation End Depth: 2  
Formation End Depth UOM: ft

**Annular Space/Abandonment**

**Sealing Record**

Plug ID: 933114307  
Layer: 2  
Plug From: 3  
Plug To: 15  
Plug Depth UOM: ft

**Annular Space/Abandonment**

**Sealing Record**

Plug ID: 933114306  
Layer: 1  
Plug From: 0  
Plug To: 3  
Plug Depth UOM: ft

**Method of Construction & Well**

**Use**

Method Construction ID:

Method Construction Code: 6

**Method Construction:** Boring  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 10599438  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930088797  
**Layer:** 1  
**Material:** 5  
**Open Hole or Material:** PLASTIC  
**Depth From:**  
**Depth To:** 15  
**Casing Diameter:** 2  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Screen**

**Screen ID:** 933326680  
**Layer:** 1  
**Slot:** 010  
**Screen Top Depth:** 5  
**Screen End Depth:** 15  
**Screen Material:**  
**Screen Depth UOM:** ft  
**Screen Diameter UOM:** inch  
**Screen Diameter:** 2

**Water Details**

**Water ID:** 933489271  
**Layer:** 1  
**Kind Code:** 5  
**Kind:** Not stated  
**Water Found Depth:** 10  
**Water Found Depth UOM:** ft

**Site:**  
con 2 ON

**Database:**  
WWIS

**Well ID:** 1529333  
**Construction Date:**  
**Primary Water Use:** Commerical  
**Sec. Water Use:**  
**Final Well Status:** Observation Wells  
**Water Type:**  
**Casing Material:**  
**Audit No:** 169508  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 2/14/1997  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 6844  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:**  
**Concession:** 02  
**Concession Name:** OF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10050869  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** 0  
**Code OB Desc:** Overburden  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 12/18/1996  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931072419  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 91  
**Other Materials:** WATER-BEARING  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 5  
**Formation End Depth:** 18  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931072418  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:** 11  
**Other Materials:** GRAVEL  
**Mat3:** 01  
**Other Materials:** FILL  
**Formation Top Depth:** 0  
**Formation End Depth:** 5  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment**

**Sealing Record**

**Plug ID:** 933114310  
**Layer:** 3  
**Plug From:** 7  
**Plug To:** 18  
**Plug Depth UOM:** ft

**Annular Space/Abandonment**

**Sealing Record**

**Plug ID:** 933114308

Layer: 1  
Plug From: 0  
Plug To: 5  
Plug Depth UOM: ft

**Annular Space/Abandonment  
Sealing Record**

Plug ID: 933114309  
Layer: 2  
Plug From: 5  
Plug To: 7  
Plug Depth UOM: ft

**Method of Construction & Well  
Use**

Method Construction ID:  
Method Construction Code: 6  
Method Construction: Boring  
Other Method Construction:

**Pipe Information**

Pipe ID: 10599439  
Casing No: 1  
Comment:  
Alt Name:

**Construction Record - Casing**

Casing ID: 930088798  
Layer: 1  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From:  
Depth To: 18  
Casing Diameter: 2  
Casing Diameter UOM: inch  
Casing Depth UOM: ft

**Construction Record - Screen**

Screen ID: 933326681  
Layer: 1  
Slot: 010  
Screen Top Depth: 8  
Screen End Depth: 18  
Screen Material:  
Screen Depth UOM: ft  
Screen Diameter UOM: inch  
Screen Diameter: 2

**Water Details**

Water ID: 933489272  
Layer: 1  
Kind Code: 5  
Kind: Not stated  
Water Found Depth: 15  
Water Found Depth UOM: ft

**Site:**  
con 2 ON

**Database:**  
**WWIS**

**Well ID:** 1529560  
**Construction Date:**  
**Primary Water Use:** Commerical  
**Sec. Water Use:**  
**Final Well Status:** Observation Wells  
**Water Type:**  
**Casing Material:**  
**Audit No:** 169523  
**Tag:**  
**Construction Method:**  
**Elevation (m):**  
**Elevation Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Flowing (Y/N):**  
**Flow Rate:**  
**Clear/Cloudy:**

**Data Entry Status:**  
**Data Src:** 1  
**Date Received:** 8/12/1997  
**Selected Flag:** Yes  
**Abandonment Rec:**  
**Contractor:** 6844  
**Form Version:** 1  
**Owner:**  
**Street Name:**  
**County:** OTTAWA-CARLETON  
**Municipality:** NEPEAN TOWNSHIP  
**Site Info:**  
**Lot:**  
**Concession:** 02  
**Concession Name:** OF  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

**Bore Hole Information**

**Bore Hole ID:** 10051095  
**DP2BR:**  
**Spatial Status:**  
**Code OB:** 0  
**Code OB Desc:** Overburden  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 3/6/1997  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Elevation:**  
**Elevrc:**  
**Zone:** 18  
**East83:**  
**North83:**  
**Org CS:**  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** na

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931073139  
**Layer:** 2  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 12  
**Other Materials:** STONES  
**Mat3:**  
**Other Materials:**  
**Formation Top Depth:** 5  
**Formation End Depth:** 12  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 931073138  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:** 81



**Other Materials:** SANDY  
**Mat3:** 01  
**Other Materials:** FILL  
**Formation Top Depth:** 0  
**Formation End Depth:** 5  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114574  
**Layer:** 3  
**Plug From:** 5  
**Plug To:** 12  
**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114572  
**Layer:** 1  
**Plug From:** 0  
**Plug To:** 3  
**Plug Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 933114573  
**Layer:** 2  
**Plug From:** 3  
**Plug To:** 5  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

**Method Construction ID:**  
**Method Construction Code:** 6  
**Method Construction:** Boring  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 10599665  
**Casing No:** 1  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 930089190  
**Layer:** 1  
**Material:** 5  
**Open Hole or Material:** PLASTIC  
**Depth From:**  
**Depth To:** 12  
**Casing Diameter:** 2  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Construction Record - Screen**

**Screen ID:** 933326719

**Layer:** 1  
**Slot:** 010  
**Screen Top Depth:** 8  
**Screen End Depth:** 13  
**Screen Material:**  
**Screen Depth UOM:** ft  
**Screen Diameter UOM:** inch  
**Screen Diameter:** 2

**Water Details**

**Water ID:** 933489562  
**Layer:** 1  
**Kind Code:** 5  
**Kind:** Not stated  
**Water Found Depth:** 8  
**Water Found Depth UOM:** ft

## Appendix: Database Descriptions

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

### **Abandoned Aggregate Inventory:**

Provincial

[AAGR](#)

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

**Government Publication Date: Sept 2002\***

### **Aggregate Inventory:**

Provincial

[AGR](#)

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

**Government Publication Date: Up to Sep 2019**

### **Abandoned Mine Information System:**

Provincial

[AMIS](#)

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

**Government Publication Date: 1800-Oct 2018**

### **Anderson's Waste Disposal Sites:**

Private

[ANDR](#)

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

**Government Publication Date: 1860s-Present**

### **Aboveground Storage Tanks:**

Provincial

[AST](#)

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

**Government Publication Date: May 31, 2014**

### **Automobile Wrecking & Supplies:**

Private

[AUWR](#)

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

**Government Publication Date: 1999-Jan 31, 2020**

### **Borehole:**

Provincial

[BORE](#)

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

**Government Publication Date: 1875-Jul 2018**

**Certificates of Approval:**

Provincial CA

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

**Government Publication Date: 1985-Oct 30, 2011\***

**Dry Cleaning Facilities:**

Federal CDRY

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

**Government Publication Date: Jan 2004-Dec 2017**

**Commercial Fuel Oil Tanks:**

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

**Government Publication Date: Feb 28, 2017**

**Chemical Register:**

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

**Government Publication Date: 1999-Jan 31, 2020**

**Compressed Natural Gas Stations:**

Private CNG

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

**Government Publication Date: Dec 2012 - Feb 2020**

**Inventory of Coal Gasification Plants and Coal Tar Sites:**

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.\*

**Government Publication Date: Apr 1987 and Nov 1988\***

**Compliance and Convictions:**

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

**Government Publication Date: 1989-Nov 2019**

**Certificates of Property Use:**

Provincial CPU

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

**Government Publication Date: 1994-Mar 31, 2020**

**Drill Hole Database:**

Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

**Government Publication Date: 1886 - Sep 2019**

**Environmental Activity and Sector Registry:**

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

**Government Publication Date: Oct 2011-Apr 30, 2020**

**Environmental Registry:**

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

**Government Publication Date: 1994-Mar 31, 2020**

**Environmental Compliance Approval:**

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

**Government Publication Date: Oct 2011-Apr 30, 2020**

**Environmental Effects Monitoring:**

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

**Government Publication Date: 1992-2007\***

**ERIS Historical Searches:**

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

**Government Publication Date: 1999-Jan 31, 2020**

**Environmental Issues Inventory System:**

Federal [EIS](#)

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

**Government Publication Date: 1992-2001\***

**Emergency Management Historical Event:**

Provincial [EMHE](#)

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

**Government Publication Date: Dec 31, 2016**

**Environmental Penalty Annual Report:**

Provincial [EPAR](#)

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

**Government Publication Date: Jan 1, 2011 - Dec 31, 2019**

**List of Expired Fuels Safety Facilities:**

Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

**Government Publication Date: Feb 28, 2017**

**Federal Convictions:**

Federal FCON

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

**Government Publication Date: 1988-Jun 2007\***

**Contaminated Sites on Federal Land:**

Federal FCS

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

**Government Publication Date: Jun 2000-Nov 2019**

**Fisheries & Oceans Fuel Tanks:**

Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

**Government Publication Date: 1964-Sep 2019**

**Federal Identification Registry for Storage Tank Systems (FIRSTS):**

Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

**Government Publication Date: May 31, 2018**

**Fuel Storage Tank:**

Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

**Government Publication Date: Feb 28, 2017**

**Fuel Storage Tank - Historic:**

Provincial FSTH

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

**Government Publication Date: Pre-Jan 2010\***

**Ontario Regulation 347 Waste Generators Summary:**

Provincial GEN

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

**Government Publication Date: 1986-Jan 31, 2020**



**Greenhouse Gas Emissions from Large Facilities:**

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

**Government Publication Date: 2013-Dec 2017**

**TSSA Historic Incidents:**

Provincial

HINC

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

**Government Publication Date: 2006-June 2009\***

**Indian & Northern Affairs Fuel Tanks:**

Federal

IAFT

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

**Government Publication Date: 1950-Aug 2003\***

**Fuel Oil Spills and Leaks:**

Provincial

INC

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

**Government Publication Date: Feb 28, 2017**

**Landfill Inventory Management Ontario:**

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

**Government Publication Date: Feb 28, 2019**

**Canadian Mine Locations:**

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

**Government Publication Date: 1998-2009\***

**Mineral Occurrences:**

Provincial

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

**Government Publication Date: 1846-Jan 2020**

**National Analysis of Trends in Emergencies System (NATES):**

Federal

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

**Government Publication Date: 1974-1994\***

**Non-Compliance Reports:**Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

**Government Publication Date:** Dec 31, 2018

**National Defense & Canadian Forces Fuel Tanks:**Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

**Government Publication Date:** Up to May 2001\*

**National Defense & Canadian Forces Spills:**Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

**Government Publication Date:** Mar 1999-Apr 2018

**National Defence & Canadian Forces Waste Disposal Sites:**Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

**Government Publication Date:** 2001-Apr 2007\*

**National Energy Board Pipeline Incidents:**Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

**Government Publication Date:** 2008-Dec 31, 2019

**National Energy Board Wells:**Federal [NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

**Government Publication Date:** 1920-Feb 2003\*

**National Environmental Emergencies System (NEES):**Federal [NEES](#)

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

**Government Publication Date:** 1974-2003\*

**National PCB Inventory:**Federal [NPCB](#)

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

**Government Publication Date:** 1988-2008\*

**National Pollutant Release Inventory:**Federal [NPRI](#)

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

**Government Publication Date:** 1993-May 2017

**Oil and Gas Wells:**

Private

[OGWE](#)

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at [www.nickles.com](http://www.nickles.com).

**Government Publication Date: 1988-Feb 29, 2020**

**Ontario Oil and Gas Wells:**

Provincial

[OOGW](#)

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

**Government Publication Date: 1800-Jun 2019**

**Inventory of PCB Storage Sites:**

Provincial

[OPCB](#)

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

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

**Orders:**

Provincial

[ORD](#)

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

**Government Publication Date: 1994-Mar 31, 2020**

**Canadian Pulp and Paper:**

Private

[PAP](#)

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

**Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014**

**Parks Canada Fuel Storage Tanks:**

Federal

[PCFT](#)

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

**Government Publication Date: 1920-Jan 2005\***

**Pesticide Register:**

Provincial

[PES](#)

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

**Government Publication Date: 1988 - Apr 2020**

**Pipeline Incidents:**

Provincial

[PINC](#)

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

**Government Publication Date: Feb 28, 2017**

**Private and Retail Fuel Storage Tanks:**

Provincial

[PRT](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

**Government Publication Date: 1989-1996\***

**Permit to Take Water:**

Provincial

[PTTW](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

**Government Publication Date: 1994-Mar 31, 2020**

**Ontario Regulation 347 Waste Receivers Summary:**

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

**Government Publication Date: 1986-2016**

**Record of Site Condition:**

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental clean-up orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

**Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2020**

**Retail Fuel Storage Tanks:**

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

**Government Publication Date: 1999-Jan 31, 2020**

**Scott's Manufacturing Directory:**

Private SCT

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

**Government Publication Date: 1992-Mar 2011\***

**Ontario Spills:**

Provincial SPL

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

**Government Publication Date: 1988-Aug 2019**

**Wastewater Discharger Registration Database:**

Provincial SRDS

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

**Government Publication Date: 1990-Dec 31, 2017**

**Anderson's Storage Tanks:**

Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

**Government Publication Date: 1915-1953\***

**Transport Canada Fuel Storage Tanks:**

Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

**Government Publication Date: 1970-Aug 2018**

**Variances for Abandonment of Underground Storage Tanks:**

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

**Government Publication Date: Feb 28, 2017**

**Waste Disposal Sites - MOE CA Inventory:**

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

**Government Publication Date: Oct 2011-Apr 30, 2020**

**Waste Disposal Sites - MOE 1991 Historical Approval Inventory:**

Provincial [WDSH](#)

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

**Government Publication Date: Up to Oct 1990\***

**Water Well Information System:**

Provincial [WWIS](#)

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

**Government Publication Date: Feb 28, 2019**

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.



# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

## 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