Geotechnical Engineering

**Environmental Engineering** 

Hydrogeology

Geological Engineering

**Materials Testing** 

**Building Science** 

Archaeological Services

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# **Phase I-Environmental Site Assessment**

1015 March Road Ottawa, Ontario

**Prepared For** 

Kanata United

# 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 December 7, 2020

Report: PE4677-1



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#### **EXECUTIVE SUMMARY**

#### **Assessment**

Paterson Group was retained by Kanata United. to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

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

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

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

#### Recommendations

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

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



# 1.0 INTRODUCTION

At the request of Kanata United., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

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

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

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



# 2.0 PHASE I PROPERTY INFORMATION

Address: 1015 March Road, Ottawa, Ontario

Legal Description: Part of Lot 13, Concession 3, Geographic Township of

March, City of Ottawa

Location: The site is located on the west side of March Road,

approximately 750 m north of Old Carp Road, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan

in the Figures section following the text.

PIN: 04526-1625

Latitude and Longitude: 45° 21' 41.12" N, 75° 56' 50.42" W

**Site Description:** 

Configuration: Rectangular

Area: 4.9 hectares (approximately)

Zoning: RC – Residential Zone

RU - Rural Zone

Current Use: The subject site is occupied by a residential dwelling

with an agricultural field.

Services: The subject site is serviced by a private well and

septic system.



# 3.0 SCOPE OF INVESTIGATION

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



# 4.0 RECORDS REVIEW

#### 4.1 General

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

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

#### First Developed Use Determination

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

#### Fire Insurance Plans

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

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

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

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

#### Chain of Title

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

#### Plan of Survey

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



## **Previous Engineering Reports**

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

#### 4.2 Environmental Source Information

#### **Environment Canada**

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

# **PCB Inventory**

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

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

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

#### **MECP Instruments**

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

# **MECP Incident Reports**

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



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

#### **MECP Waste Management Records**

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

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

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

# **MECP Waste Disposal Site Inventory**

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

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

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

#### **Areas of Natural Significance**

A search for areas of natural significance and features within the Phase I study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on July 9, 2019. The search did not reveal any areas of natural significance within the Phase I study area.



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

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

# **City of Ottawa Landfill Document**

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. There were no former landfill sites identified within the Phase 1 Study Area.

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

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. The search indicated that there were no activities associated with the subject site or with properties situated 250m from the subject property. A copy of the HLUI request form is provided in Appendix 2.

# 4.3 Physical Setting Sources

#### **Aerial Photographs**

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

	Neighbouring lands to the north, north west and south east of the site consist of some residential dwellings. Much of the surrounding area is occupied by vacant agricultural fields and treed lands.
1991	The subject site now has a residential dwelling located in the

southeast corner of the property. The surrounding lands are primarily comprised of agricultural fields with some areas being developed with residential dwellings.

The subject site is vacant agricultural land with no obvious buildings.

No significant changes are apparent on the subject site or neighbouring lands aside from the development of a large subdivision to the southeast of the subject site.

1976



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

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

# **Topographic Maps**

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

## **Physiographic Maps**

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

#### **Geological Maps**

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of interbedded sandstone dolomite of the March Formation. The surficial geology on the northern and southern portion of the site consist of offshore marine sediments (erosion terraces) and exposed bedrock, respectively, with a drift thickness ranging from 0 to 3 m.

#### **Water Well Records**

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

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



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

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

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

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

## 5.0 INTERVIEWS

#### **Property Owner Representative**

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

# **6.0 SITE RECONNAISSANCE**

# 6.1 General Requirements

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

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

#### Site Features

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



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

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

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

#### **Subsurface Structures and Utilities**

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

## **Buildings and Structures**

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

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

#### **Interior Assessment**

☐ Floor finishes consisted of vinyl tiles, hardwood, laminate and concrete

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

(basement);
 Wall finishes consist of dry wall, wood, ceramic tiles and concrete/stone and mortar (basement);
 Ceilings are finished with ceiling stipple, decorative plaster, ceiling tiles;

Centings are infisited with centing supple, decorative plaster, centing the

☐ Lighting is provided by incandescent fixtures.



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

# **Fuel and Chemical Storage**

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

# Wastewater Discharge

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

#### **Waste Management**

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

# **Neighbouring Properties**

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection.

Land use adjacent to the subject site is as follows:

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

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



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

## 7.0 REVIEW AND EVALUATION OF INFORMATION

# 7.1 Land Use History

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

# Potentially Contaminating Activities and Areas of Potential Environmental Concern

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

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

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

# 7.2 Conceptual Site Model

## **Geological and Hydrogeological Setting**

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

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

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

# **Existing Buildings and Structures**

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



#### Water Bodies and Areas of Natural Significance

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

# **Drinking Water Wells**

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

## **Neighbouring Land Use**

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

# Potentially Contaminating Activities and Areas of Potential Environmental Concern

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

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

There are no contaminants of potential concern.

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

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



#### 8.0 CONCLUSIONS

#### Assessment

Paterson Group was retained by Kanata United to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

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

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

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

#### Recommendations

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

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



#### 9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of Kanata United. Permission and notification from Kanata United and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Samuel Berube, B.Eng.

Mark S. D'Arcy, P.Eng.

M.S. D'ARCY BY 90377839

#### **Report Distribution:**

- Kanata United
- Paterson Group



# 10.0 REFERENCES

#### **Federal Records**

Air photos at the Energy Mines and Resources Air Photo Library.

National Archives.

Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

#### **Provincial Records**

MECP Freedom of Information and Privacy Office.

MECP Municipal Coal Gasification Plant Site Inventory, 1991.

MECP document titled "Waste Disposal Site Inventory in Ontario".

MECP Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MECP Water Well Record Inventory.

Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

#### **Municipal Records**

City of Ottawa Document "Old Landfill Management Strategy, Phase I -

Identification of Sites.", prepared by Golder Associates, 2004.

Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

#### **Local Information Sources**

Personal Interviews.

#### **Public Information Sources**

Google Earth.

Google Maps/Street View.

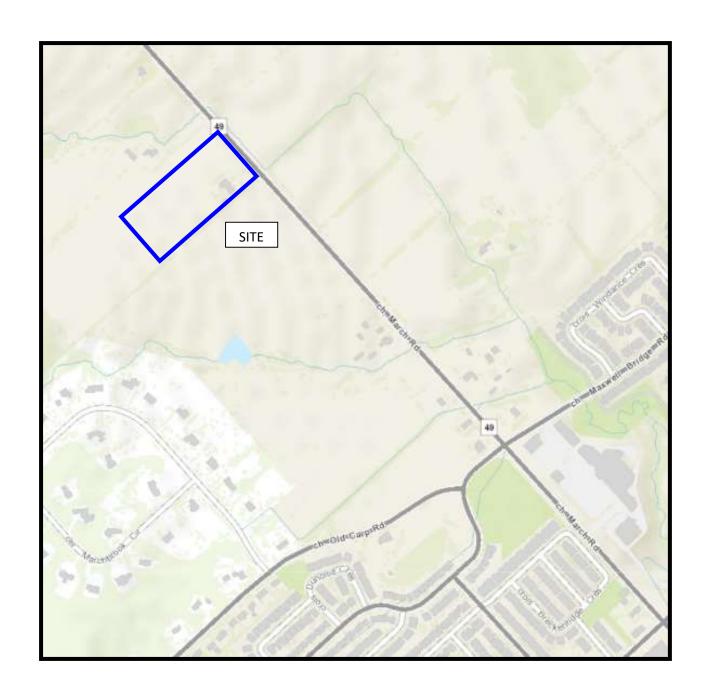
# **FIGURES**

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

**DRAWING PE4677-1 - SITE PLAN** 

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

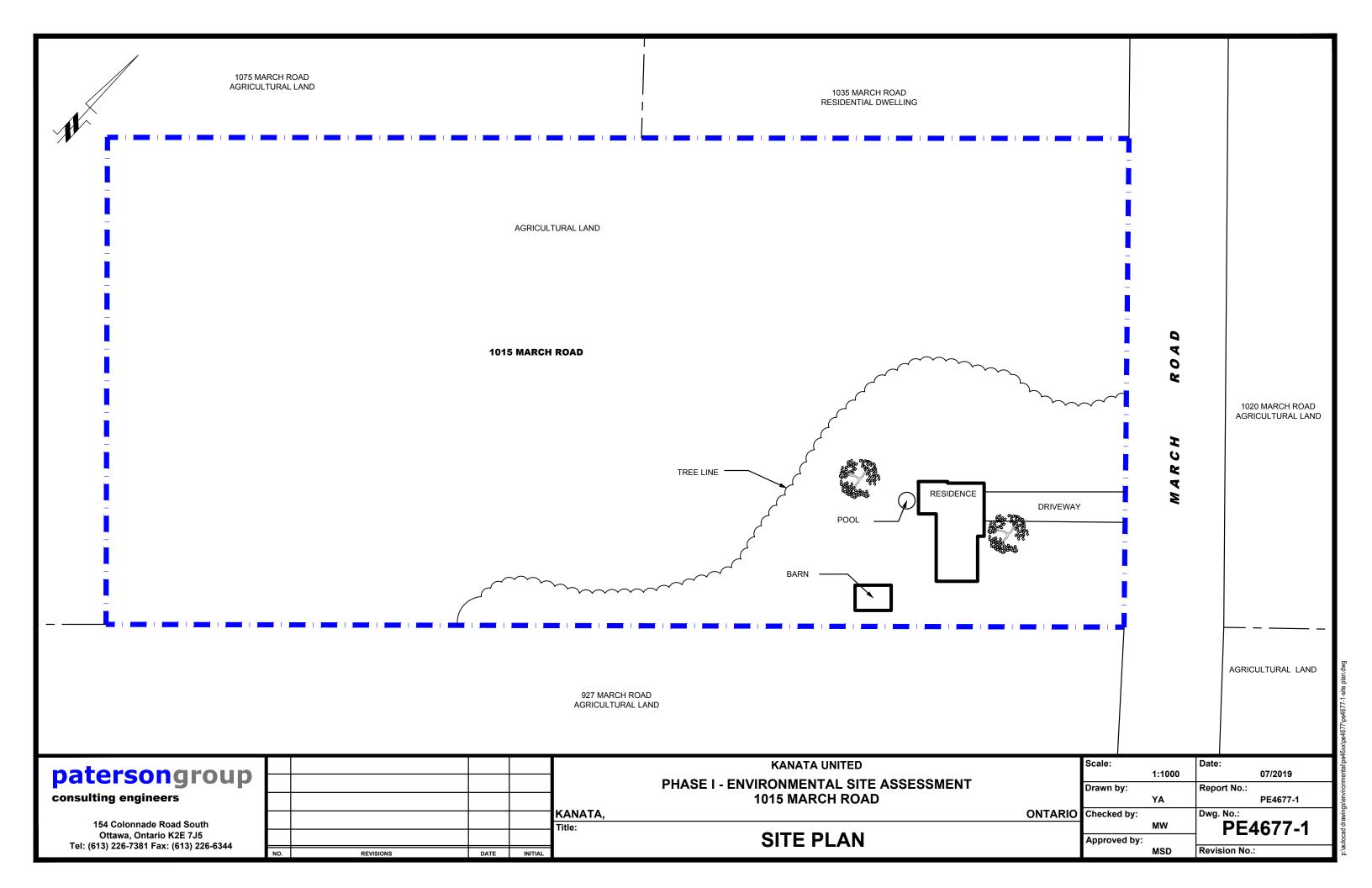


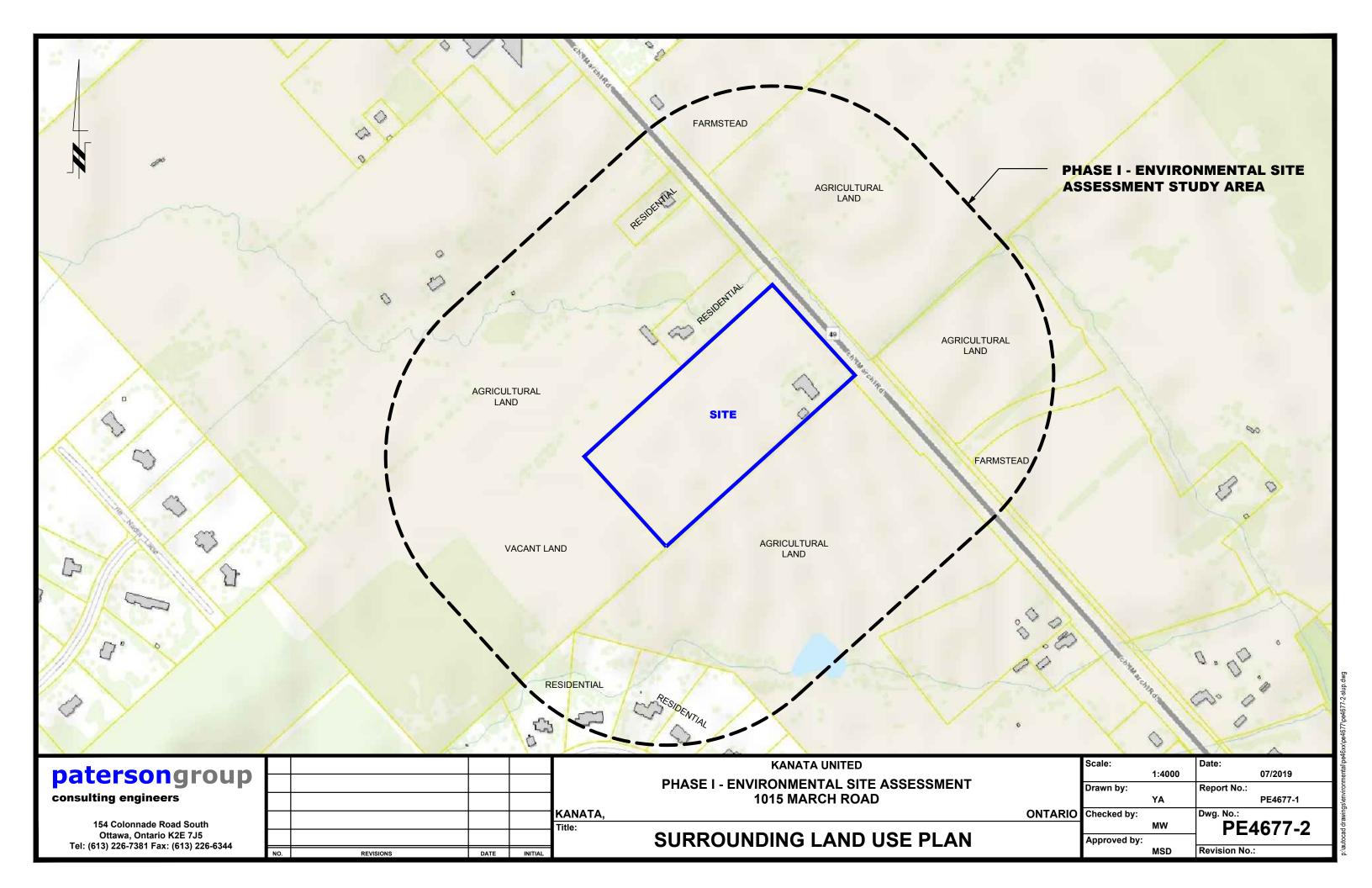
# FIGURE 1 KEY PLAN



# FIGURE 2 TOPOGRAPHIC MAP

patersongroup.



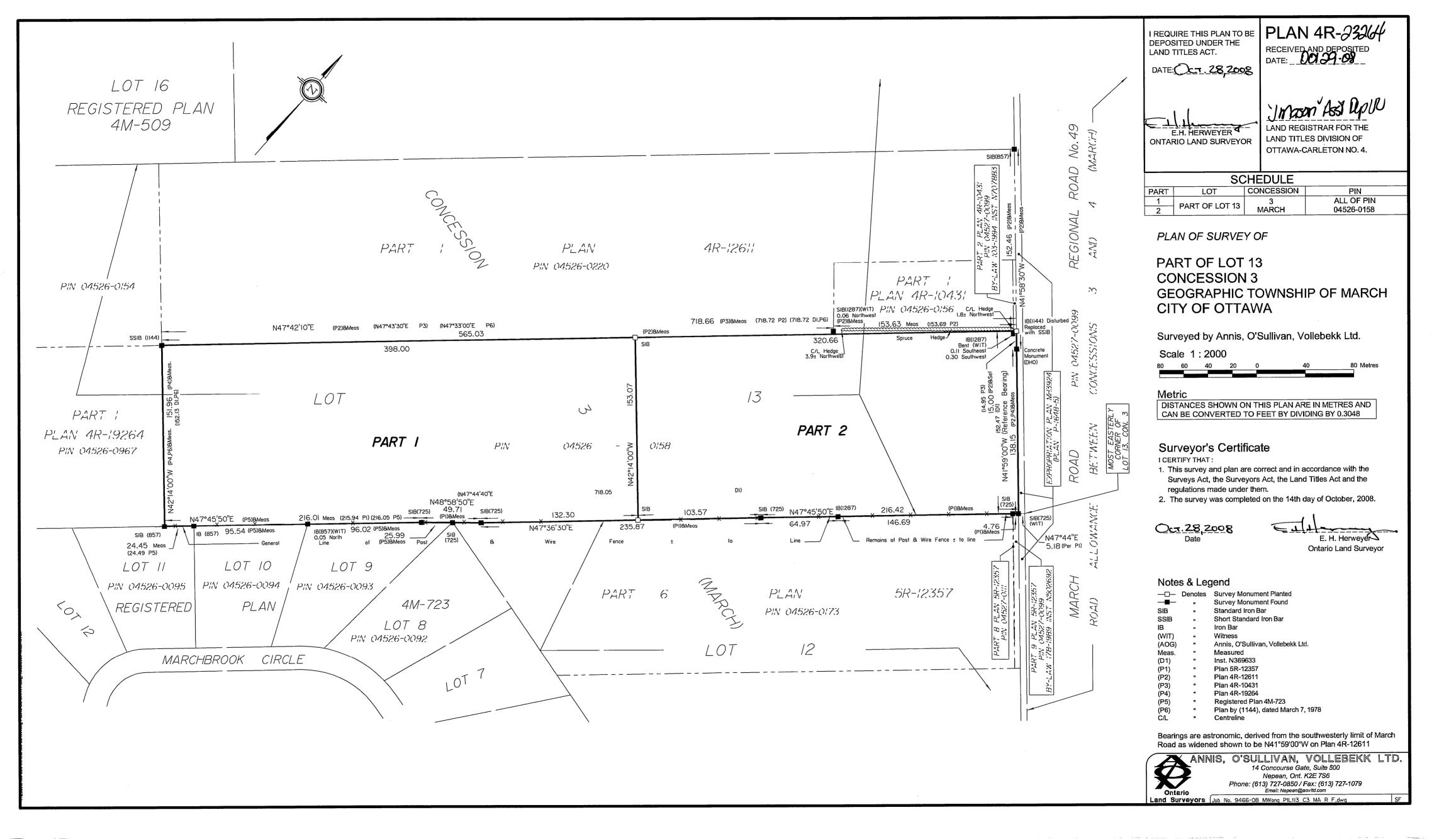


# **APPENDIX 1**

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS





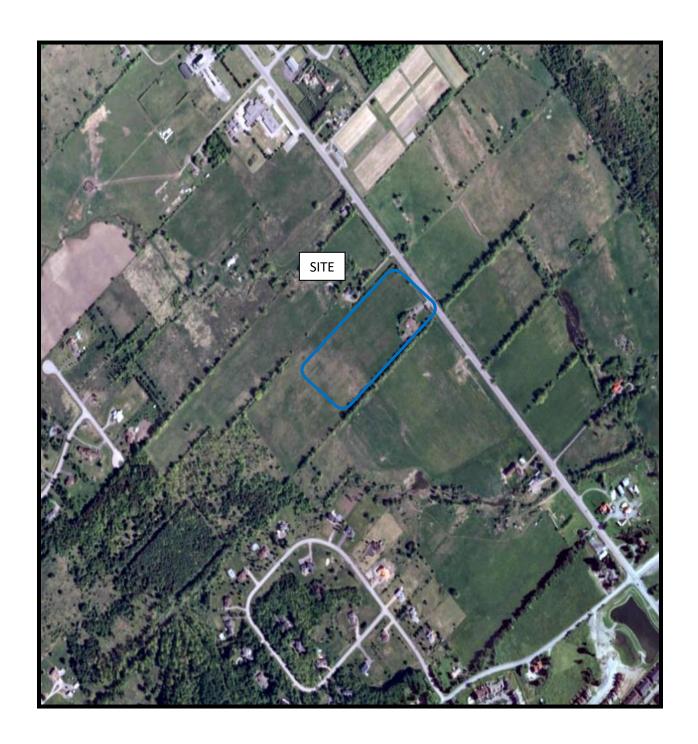
**AERIAL PHOTOGRAPH 1976** 

patersongroup —



**AERIAL PHOTOGRAPH 1991** 

patersongroup \_\_\_\_



**AERIAL PHOTOGRAPH 2008** 

patersongroup \_\_\_\_



**AERIAL PHOTOGRAPH 2017** 

patersongroup \_\_\_\_



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



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

# **APPENDIX 2**

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment, Conservation and Parks

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

Fax: (416) 314-4285

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

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

12º étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél.: (416) 314-4075



July 15, 2019

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

Dear Adrian Menyhart:

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

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1015 March Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. We have applied the \$30.00 for this request from your initial payment. This file is now closed.

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

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

Yours truly,

Janet Dadufalza

Manager, Access and Privacy

#### **Samuel Berube**

From: Mandy Witteman

Sent: July 9, 2019 8:32 AM

To: Samuel Berube

Subject: FW: Search Records Request (PE4666) (No Record)

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

Cheers.

Mandy Witteman

# patersongroup

solution oriented engineering over 60 years servicing our clients

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

Cell: (403) 921-1157

From: Public Information Services <publicinformationservices@tssa.org>

Sent: July-02-19 1:47 PM

**To:** Mandy Witteman < MWitteman@Patersongroup.ca> **Subject:** Re: Search Records Request (PE4666) (No Record)

Hello,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please complete our release of public information form found at <a href="https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392">https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392</a> and email the completed form to <a href="mailto:publicinformationservices@tssa.org">publicinformationservices@tssa.org</a> or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thank you and have a great day,

Roxana



**Public Information Agent** 

Facilities and Business Services 345 Carlingview Drive Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org

www.issa.org





From: Mandy Witteman < <u>MWitteman@Patersongroup.ca</u>>

Sent: July 2, 2019 12:24 PM

To: Public Information Services < <u>publicinformationservices@tssa.org</u>>

Subject: Search Records Request (PE4666)

Good Afternoon,

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

Langstaff Drive: 147, 119, 118 Carp Rd: 3806, 3790, 3709 Cavanagh Dr: 105, 102 Donald B. Munro Dr: 405

Thank you.

Cheers,

Mandy Witteman

# patersongroup

solution oriented engineering over 60 years servicing our clients

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

Cell: (403) 921-1157

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



File Number: D06-03-19-0106

August 15, 2019

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

Sent via email [sberube@patersongroup.ca]

Dear Mr. Berube,

**Re:** Information Request

1015 March Road, Ottawa, Ontario ("Subject Property")

#### **Internal Department Circulation**

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

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

# **Search of Historical Land Use Inventory**

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

A search of the HLUI database revealed the following information:

There are no activities associated with the Subject Property.

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

Shaping our future together Ensemble, formons notre avenir City of Ottawa Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor Ottawa, ON K1P 1J1 Tel: (613) 580-2424 ext. 14743 Fax: (613) 560-6006 www.ottawa.ca Ville d'Ottawa Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage Ottawa (Ontario) K1P 1J1 Tél.: (613) 580-2424 ext. 14743 Téléc: (613) 560-6006 www.ottawa.ca  There are no activities associated with the properties located within 250m of the Subject Property.

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

Additional information may be obtained by contacting:

### **Ontario's Environmental Registry**

The Environmental Registry found at <a href="http://www.ebr.gov.on.ca/ERS-WEB-External/">http://www.ebr.gov.on.ca/ERS-WEB-External/</a> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

### The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House 161 Elgin Street 4th Floor Ottawa ON K2P 2K1 Tel: (613) 239-1230

Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database. Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Samantha Gatchene at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,

Samantha Gatchene

Somowtha Gatchene

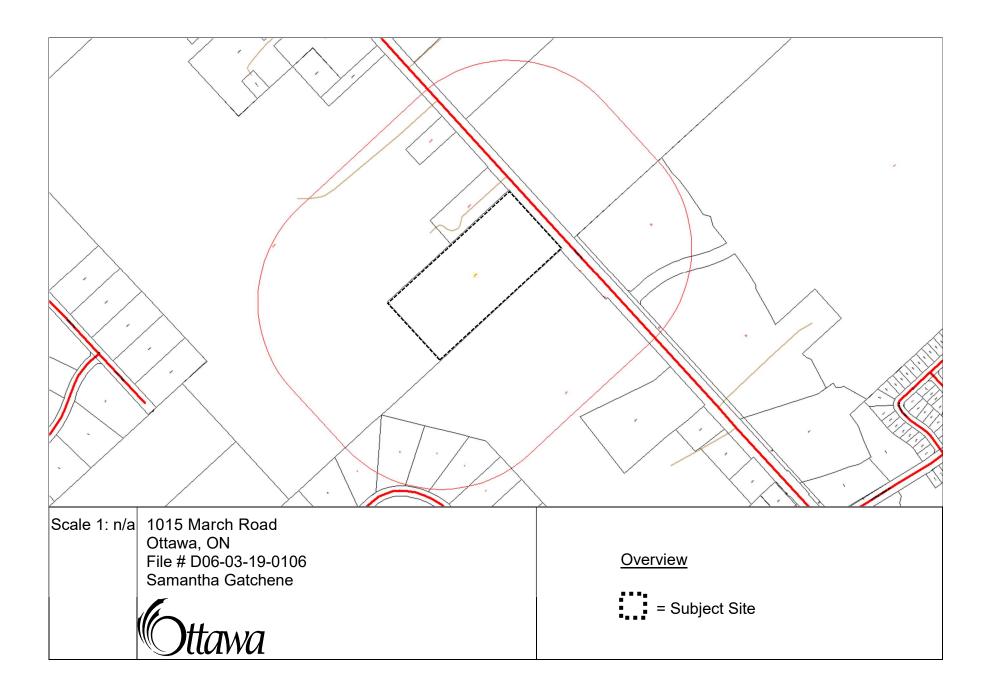
Per:

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

MB/SG

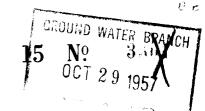
Enclosures

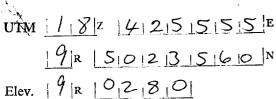
cc: File no. D06-03-19-0106



388A  UTM 18 42 412 16 14 13 10 E  Co. 15 R 5 10 12 13 1 1 10 15 N Ontario Water Res  Elev. 14 R 10 12 16 10 WATER WE	LL	REC	Act DRD	JAN 17 III	S64 STER MISSION
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Type of screen 170.18	Pum	ping level		40,	,
Length of screen	Dura	ation of test	oumping	/ hr	
Depth to top of screen	Wat	er clear or cl	oudy at end o	f test c/eq	<i>.</i>
Diameter of finished hole	Rec	ommended 1	oumping rate	5	G.P.M.
Diameter of finished hote	with	pump settir	ng of 5	o feet belo	w ground surface
Well Log				Wate	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock		0	12		
himestone		12 38	38	60	Fresh
Sand STone					
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  Mchean Water Supply Ltd.  Address 1532 Raven Hve  Ollawa, Onl.  Licence Number 1090  Name of Driller or Borer H. Scharf	Roce Bet Lo	In diagra road and d ween	um below sho l lot line. In	of Well w distances of we ndicate north by	ell from arrow.
Address Date May 23 163 ComcLen			¥ = 17.2 17.2 ← OT 3 ← OT	WY 17	v RP →
(Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138	_		2 CH	, nen (1	
OWRC COPY					

28.  UTM 1/18/21/42/5181410 F.   S R 05/012/317/719The Ontario Water Reserved.  Elev. 14/R 0/2/85 WATER WEI  Basin 25/012/85 WATER WEI  Con. 3 Lot /3	LL REC	ORD own or Gity		3360
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Diameter of finished hole	į			w ground surface
	with pump settin	g oi		r Record
Well Log		<b></b>	Depth(s) at	Kind of water
Overburden and Bedrock Record	From ft.	To ft.	which water(s) found	(fresh, salty, sulphur)
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		10	65	F18811
Limesta, 45000570		63	3 3	· Cr Sud
For what purpose(s) is the water to be used?			of Well	11 6
	1 0		v distances of we dicate north by	
Is well on upland, in valley, or on hillside?		4	0	//
Drilling or Boring Firm			18	1 H
C DUFILESILE		\		y V Magry M Str.
Address 0771)WA				
		Se40		
Licence Number 2676			100 3.6	1
Name of Driller or Borer 5 13 n. c		_1	X.A.	
Address		3		
Date JUNES		4	2	
C) refree see				n ARCH
(Signature of Licensed Drilling or Boring Contractor)			5.1	n protection
Form 7 15M-60-4138				
O W R C COPY				** T . *





The Water-well Drillers Act, 1954 Department of Mines

Water-Well Record

	Carlet	.g~v \	ip, V	<mark>Village, Town or C</mark> i	ty Mar	<u></u>
			ı Vil	llage, Town or Cit	y)	Dut
				ess Zourio	PICOCONY	
Date completed	(month)	(year)	/			
Pipe and Casin	g Record			I	Pumping Test	
, , , , ,			<u> </u>	<i>H</i>	1 1/2 1	
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			Pum	oing level	4%'	
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Length of screen			Dura	tion of test		
Well Log	3			V	Vater Record	
	From	То		Depth(s) at which	No. of feet	Kind of water (fresh, salty,
Overburden and Bedrock Record	ft.	ft.		water(s) found	water rises	or sulphur)
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		_\	[			
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Address	γ. <b> </b>					
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I certify that the			1	y		37 3
statements of fac			X'		1	*w7

Date Oct 22/5.7 E Chestack
Signature of Licensee
Per a Sparks Form 5

C88,58

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UN 182 4216141615E	3195d	V	VATER RESOURCES  DIVISION N	3414,
C.15 R [50 2 3 2 7 0 N The Ontario Water Reso	urces Commission	A	JUL 6 1964	
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County or District COX T		•		64
Con. Lot / L	_	(day	month	year)
	ress S O	uth 1	march	<b>_</b>
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Type of screen	Pumping level	11'	·······	
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Depth to top of screen	Water clear or clo	oudy at end of	test <u>clo</u>	ridy
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Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
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Is well on upland, in valley, or on hillside?	road and	lot line. Ind	icate north by	arrow.
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Ottawa			11 3	
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Address				
Dates 9/3/64				
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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

## ATER WELL RECO

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NAME OF DRI	Kavanach	,		SUBMISSION DATI			HSD HEMARKS:				,		P75
STATURE													W I

### MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

## WATER WELL RECORD

Ontario	1. PRINT ONLY IN 2. CHECK ⊠ CORF	SPACES PROVIDED		11	51626	0	MUNICIP. 15101016	(C)	<u> </u>	03
COUNTY OR DISTRICT	ton	TOWNSHIP, BOROUGH, CITY,	TOWN, VILLAG	3		con 3	., BLOCK, TRACT, SURVE	Y, ETC.	1	9/2527
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Much	upavan	Ceft DAY 5 MO.	10 YR.		0	<i>.</i>				7 MOE 07-091



The Ontario Water Resources Act

### WATER WELL RECORD

Untario  1. Print only in space: 2. Check ⊠ correct b	1 13 1	1526402 MUNICIP COM.	63
	OWNSHIP, BOROUGH, CITY, TOWN VILLAGE	CON BLOCK TRACT, SURVEY ETC LOT	22 23 24
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10-13 1 FRESH 3 SULPHUR		OF SCREEN	41-44 30
6 □ GAS  15-18 1 □ FRESH 3 □ SULPHUR 19	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	61 PLUGGING & SEALING RECORD	FEET
2 SALTY 4 MINERALS 6 GAS 20-23 1 FRESH 3 SULPHUR 24	5 PLASTIC  17-18 1 STEEL 2 GALVANIZED	20-23 DEPTH SET AT FEET MATERIAL AND TYPE (CEMENT GREET) FROM TO MATERIAL AND TYPE (LEAD PACKER)	
2 SALTY 4 MINERALS 6 GAS  25-28 1 FRESH 3 SULPHUR 29	3 CONCRETE 4 OPEN HOLE 5 PLASTIC	60 0 Hole Plug (15)	
2 SALTY 4 MINERALS 6 GAS 30-33 1 FRESH 3 SULPHUR 34 80	24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE	18-21 22-25	
Z SALTY 6 GAS	4 □ OPEN HOLE 5 □ PLASTIC	26-29 30-33 80	
71 PUMPING TEST METHOD 19 PUMPING RATE	15-14 DURATION OF PUMPING  15-16 17-18  GPM HOURS MINS	LOCATION OF WELL	
STATIC WATER LEVEL 25 LEVEL END OF WATER LEVELS PUMPING	t C PHIMPING	IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.	
	MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 35-37		
1 1 1	FEET FEET FEET WATER AT END OF TEST 42		
FEET FEET FEET  IF FLOWING. GIVE RATE  GPM  RECOMMENDED PUMP TYPE  RECOMMENDED PUMP TYPE  PUMP	FEET 1 CLEAR 2 CLOUDY 43-45 RECOMMENDED 46-49	hole hole	
SHALLOW DEEP SETTING	PUMPING FEET RATE GPM	Programadoor	
SINIAI 1 WATER SUPPLY	ABANDONED, INSUFFICIENT SUPPLY	plugged hole under indoor swimming pool	
STATUS  2 OBSERVATION WELL 3 TEST HOLE	ABANDONED PROPERTY TO UNFINISHED	"inning"	
OF WELL 4   RECHARGE WELL	□ DEWATERING	50	
WATER 3   IRRIGATION 7	MUNICIPAL PUBLIC SUPPLY		
USE 4 D INDUSTRIAL • D	COOLING OR AIR CONDITIONING  9  NOT USED		
METHOD  1 CABLE TOOL 2 ROTARY (CONVENTIONAL)	6 BORING 7 DIAMOND		
OF 3 PROTARY (REVERSE) CONSTRUCTION 4 ROTARY (AIR)	■ JETTING     □ DRIVING	DRILLERS REMARKS 1206	21
S ☐ AIR PERCUSSION	☐ DIGGING ☐ OTHER		
1 1	LICENCE NUMBER	1 5 8 AUG 1 8 1992	63-68 40
Capital Water Supply Ltd. ADDRESS  Box 490 Stittsville, Ont NAME OF WELL TECHNICIAN  Walter Kavanach SIGNATURE OF TECHNICIAN/CONTRACTOR	ario K2S 1A6	S E	
Walter Kavanach	WELL TECHNICIAN'S LICENCE NUMBER	D REMARKS	
nn	SUBMISSION DATE  DAY 13 MO. 7 YR. 92	Agreement of the property of t	11/1/
MINISTRY OF THE ENVIRONME		FORM NO. 0506 (11/86)	FORM 9



# The Ontario Water Resources Act WATER WELL RECORD

	1. PRINT ONLY IN 2. CHECK 🗵 CORF	RECT BOX WHERE APPLICABLE		26403	15006 CC	N	<u>                                      </u>
COUNTY OR DISTRICT	lar laton	TOWNSHIP, BOROUGH, CITY TOWN VILLAG	Kana		BLOCK, TRACT, SURVEY ETC	1	13
		Panandrick Vi	ew C	arp, Ontario	KOA 1LO		44-53 7 YR. <mark>92</mark>
1 2	M 10 12	1NG		ELEVATION RC.	BASIN CODE II	1,1,1	,v   1 1 1
		OG OF OVERBURDEN AND BED	ROCK	MATERIALS (SEE	INSTRUCTIONS)		
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENE	RAL DESCRIPTION	DEPTH FROM	FEET TO
Brown	Sandy Caay			Pac	ked	0	4
Grat	Limestone				y Hard	4	30
Gray & W	hite Sandston			Ver	Y HArd	30	75_
			v				
	1					<u>L</u>	
31   11		<u>                                      </u>	نبا لـ ۱۱،۰				
41 WAT	TER RECORD	51 CASING & OPEN HOL	E RECC	ORD Z SIZE C	54 65 (S) OF OPENING 31-33 DIAME	TER 34-38	75 80 ENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE WALL THICKNESS INCHES	DEPTH FROM		ERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 30
25 ' -	SALTY 4   MINERALS 6   GAS	6 1 1 1 2 STEEL 12 1 1 1 2 1 1 2 1 3 1 2 2 2 3 1 2 2 2 3 1 2 2 3 1	0	21"			FEET
	SALTY 4 MINERALS 6 GAS FRESH J SULPHUR 24	5 □ PLASTIC  17-18 1 □ STEEL  19		20-23 DEPTH	PLUGGING & SEAL	TYPE (CEME	NT GROUT
	SALTY 4 UMINERALS 6 CGAS  FRESH 3 CSULPHUR 29	6 1/8 2 GALVANIZED 3 CONCRETE 4 POPEN HOLE 5 PLASTIC	21	75	10 0-13 14-17 5 <b>GEDLEC</b>		
	SALTY 4 DMINERALS 6 DGAS  FRESH 3 DSULPHUR 34 BO 4 DMINERALS	24-25   STEEL 26   2 GALVANIZED 3 CONCRETE		27-30 21	5 22-25 <b>Groted</b>	CCHETT	(3)
PUMPING TEST MET	SALTY 6 GAS	4 OPEN HOLE 5 PLASTIC  11-14 DURATION OF PUMPING	<u> </u>				
1 R PUMP	į	30-40 GPM 15-16 17-1			OCATION OF WEL		W.D.
STATIC LEVEL	END OF WATER L PUMPING 22-24 15 MINUTES	EVELS DURING  2 RECOVERY  30 MINUTES 45 MINUTES 60 MINUTES	$\frac{1}{2}$	LOT LINE IN	Rad Line	FROM ROAD A	10
	50 FEET 3 9 9 E	310et 310 feet 310					<del></del>
IF FLOWING. GIVE RATE  RECOMMENDED PUN	GPM	FEET 1 TCLEAR 2 CLOUDY		Noco p	2-5		17
SHALLOW	PUMP	43-45 RECOMMENDED 46-4 PUMPING RATE 5 GPM		2050		170	
	54 WATER SUPPLY	S ABANDONED. INSUFFICIENT SUPPLY	-	Ros	,	X	
STATUS OF WELL	2 OBSERVATION WEL 3 TEST HOLE 4 RECHARGE WELL				Ź	المار	
55	-S6 1 DOMESTIC	5 COMMERCIAL  6 MUNICIPAL	$\parallel$		1/20: 65'	7	
WATER USE	3   IRRIGATION 4   INDUSTRIAL   OTHER	PUBLIC SUPPLY COOLING OR AIR CONDITIONING				3	
•	57   CABLE TOOL	9 □ NOT USED	$\left  \cdot \right $		L	6	:
METHOD OF CONSTRUCTION	2 ROTARY (CONVENT 3 ROTARY (REVERSE)	IONAL) 7 DIAMOND		<del></del>			000
	s AIR PERCUSSION	☐ DIGGING ☐ OTHER	: <del>     </del>	LERS REMARKS			621
Capital	Water Supply I	well contractor licence number	]   \	SOURCE	1558 DATE RECEIVED	1 8 1992	63-68 80
151		Ontario K2S 1A6	JSE O	DATE OF INSPECTION	INSPECTOR		
S. Mille		WELL TECHNICIAN'S LICENCE NUMBER T0097 SUBMISSION DATE	FFICE U	REMARKS			
Mexan	and Investor	DAY 13 MO 77 YR. 96	9 9				
MINISTR	Y OF THE ENVIRO	NMENT COPY			FOI	RM NO. 0506 (1	/86) FORM 9

Ontario		1. PRINT ONLY IN 2. CHECK ⊠ CORI			11	1	5264	84	NUNICIP	0,6	O,N. , ,	,    0,3
COUNTY OR DIS	TRICT	Z. CHECK E.S. CON	<del></del>	BOROUGH, CITY	1 2 7. TOWN, VILLA	GE		CON	BLOCK TRACT.	14 15 SURVEY ETC		22 23 74 LOT 25-27
	Î	•		anata					3	DATE CO	MPLETED	13
					rick Vi		Carp, On		KOA ILO		L9 <sub>Mo</sub> <b>9</b> 8	
1 2		M 10 12	17	+1NG		RC.	ELEVATION	] []	BASIN CODE	<u> </u>	<u> </u>	
			OG OF OVE		AND BED		-				· · · · · · · · · · · · · · · · · · ·	
GENERAL CO	LOUR	MOST COMMON MATERIAL		OTHER MAI	ERIALS			GENERA	L DESCRIPTIO	I N	DEPTH FROM	· FEET
Вком	,	Soil									0	3
Gray		Limestone						Hard			3	38
-	S Whi	ite Sandston	2					Hard	-		38	100
31	لبيا			سا لــــــــــــــــــــــــــــــــــــ		ــاً لـــ		ـا لىلىـ				
32		15 21		32		با لـ			<u>,                                    </u>			75 40
WATER FOUND	1	R RECORD	51 C	ASING &	OPEN HO		CORD	Z size(s)	OF OPENING	31-33 DIAM		ENGTH 39-40
AT - FEET		RESH 3 [] SULPHUR	DIAM INCHES	MATERIAL	THICKNESS INCHES	FROM	10		IAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30
67	2 🗆 S	ALTY 4 MINERALS 6 GAS	6 1/4	STEEL 12 GALVANIZED CONCRETE	-188	C	21"	ــــــــــــــــــــــــــــــــــــــ				FEET
94	Z D S	RESH 3 DSULPHUR	5 🗆	PLASTIC			20-23	61 DEPTH SE	PLUGO	<u> </u>	LING RECO	RD NT GROUT
20-23	2 D 5	RESH 3 USULPHUR **	2 2	STEEL GALVANIZED CONCRETE				FROM 10-1	TO 14-17	MATERIAL AN		CKER. ETC 1
25-28	1   F	A DAIMEDALC 1	24.25	PLASTIC 26		2]	. 75	21	5_	ii .	d Cement	(3)
30-33	1 0 6	RESH 3 DSULPHUR 34 00	2 3	GALVANIZED CONCRETE OPEN HOLE PLASTIC		75	100	26-2	9 30-33	80		
PUMPING T	Z S		16	PLASTIC	IMPING		, 100	<u> </u>				
<b> </b> 71	PUMP 2		30 GPM	15-1 	6 17	-18 INS		L (	CATIO	OF WEL	_L	
STAT		ATER LEVEL 25 END OF WATER L PUMPING	EVELS DURING		PUMPING RECOVERY		IN DIA LOT L		W SHOW DIST CATE NORTH		. FROM ROAD A	ΝĐ
TEST	19-21	22-24 IS MINUTES 26-2	30 MINUTES 29-31	45 MINUTES	60 MINUTE	S 37		Nadi	`.a			
		9 FEET 9 FEE		9 FE	DF TEST	42 42	<del></del>	7000				$\overline{}$
δ	DED PUMP T	GPM  YPE RECOMMENDED	20 FEET	1 CLEAR	2 CLOUI						į	
□ SH	ALLOW	PUMP	20 feet	PUMPING RATE		-49 PM			24	<b></b>	İ	!
50-53								1	-\		l .	
FINA		WATER SUPPLY DBSERVATION WEL	L 🛭 🖺 ABA	NDONED POOR		Y		رعزالا	6'8" \/7	81411	!	
OF WE	ELL	3 TEST HOLE 4 RECHARGE WELL	7 - UNF	TUNISHED VATERING			_	آيد ايد	14		ŀ	1
WATE	55-56 FR	DOMESTIC 2 STOCK	S COMMER	PAL				計一			_'	
USE		3   IRRIGATION 4   INDUSTRIAL   OTHER	7 PUBLIC 8 COOLING	G OR AIR COND!			-	3		<b>.</b> .		
	\$7			9   NOT	J3EU			Panan	$\mathcal{P}_{0}$	nandr Es	ates	
METH OF		1	IONAL) 7	☐ BORING ☐ DIAMOND ☐ JETTING			F	۲	,	E	) `	
CONSTRU				DRIVING	OTHER		RILLERS REMARK	(5				)664
NAME OF	WELL CON	<u> </u>		WELL	CONTRACTO		DATA			9-62 DATE RECEIVE	D	63-64 80
č Capi	tal W	ater Supply I	td.	_	.558		2	CTION 1	558		2 2 199	2
Box		Stittsville,		K2S 14	6		4		INSPECT			
151	iller	ECHNICIAN		LICE	NCE NUMBER		~ F ~ C ~ C ~ C ~ C ~ C ~ C ~ C ~ C ~ C		-			~~
SIGNATU	RE OF TEC	HNICIAN/CONTRACTOR	į.	20 MO	097 		5					
MINI	STOV	OF THE ENVIRO			<u> </u>					F(	ORM NO. 0506 (1	1 /86\ EORM 9

Ontario	1 PRINT ONLY IN 2. CHECK 🗵 CORE	SPACES PROVIDED RECT BOX WHERE APPLICABLE	11	1 5	5264	185	15006	] [C_0	N	EPLL
COUNTY OR DISTRICT	arloton	TOWNSHIP, BOROUGH, CIT				CON .	BLOCK, TRACT, SURVEY	T ETC		LOT 25-27
			ata .				3	DATE COMP		13
		anano Hing	rick View		erp_On	tario K	BASIN CODE	DAY 19	<u>мо 8</u>	vr. <b>92</b> _
\$ 2	M 10 12	OG OF OVERBURDEN		OCK 4	4.4.7.5.0.4	30	31	<u> </u>		
GENERAL COLOUR	MOST	OTHER MA		OCK N	MATERIA		STRUCTIONS)  L DESCRIPTION		DEPTH	- FEET
	COMMON MATERIAL		<del></del>						FROM	10
Brown White	Soil Sandstone	Stone	S				Packed		0	4
mile	Sandscorie						Very HArd		4	100
			****							
	Apr. a.				<u></u>					
31	بينا ليابيا			سا ا	لبلل			سا لــــــــــــــــــــــــــــــــــــ		
32	14 15			43	<del></del>	54	OF OPENING	55 SI-33 DIAMET	FR.	75 BO ENGTH 39-40
WATER FOUND	ER RECORD	INSIDE	OPEN HOLE	RECO		Z ISLOT	(O)	SI-33 DIAMET	INCHES	FEET 39-40
10-13	FRESH 3 [] SULPHUR 14 SALTY 4 [] MINERALS	MATERIAL MATERIAL 1974 1 Transport		RUM	<sup>70</sup>	MATERI O	AL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30
25	6 GAS	2 Ugalvanized 3 Concrete 4 Copen Hole	•188	0	21	61	PLUGGING	& SEAL	ING RECO	RD FEET
	SALTY 4 MINERALS 6 GAS  FRESH 3 DSULPHUR 24	5 UPLASTIC	9		20-23		T AT - FEET	ATERIAL AND	TYPE (CEME	NT GROUT CKER, ETC 1
1 41	SALTY 4 MINERALS 6 GAS MESH S 532PHUR 29	6 1/8 3 CONCRETE 4 COPEN HOLE 5 PLASTIC		21	75	21	14-17	hatur	Cement	/31
<b>———</b>	SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 34 10	24-25 1 STEEL 20 GALVANIZED 3 CONCRETE			27-30	18-2	1 22-25		CEMEIIC	\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>
2 0	SALTY 6 GAS	4 M OPEN HOLE 5 PLASTIC		75	100	26-29	30-33 80			
71 PUMPING TEST METH	l l	15-				rc	CATION O	F WELI		
STATIC LEVEL	WATER LEVEL 25	EVELS DURING T	PUMPING RECOVERY .		IN DIA LOT L		V SHOW DISTANCES CATE NORTH BY ARE		ROM ROAD A	N D
19-21	22-24 15 MINUTES 26-2		60 MINUTES 35-37			<u>Nadi</u>	م			
FEET OF FLOWING. GIVE RATE  RECOMMENDED PUMP	6 FEET 6 FEE	SET AT WATER AT END						i		
RECOMMENDED PUMP	GPM P TYPE RECOMMENDED PUMP		2 CLOUDY			Pool	-	•		
SHALLOW 50-53		20 FEET RATE	<b>5</b> GPM		3 43	7	-	1		
FINAL	4 water supply	S ABANDONED, INSU			引作	47		i		
STATUS OF WELL	2 GOBSERVATION WEL 3 GOBSERVATION WEL 4 GOBSERVATION WEL 4 GOBSERVATION WEL	L 6 ABANDONED POOR 7 UNFINISHED DEWATERING	QUALITY		1			) 		
55-:		5 COMMERCIAL  6 MUNICIPAL			5				\ <u></u>	
WATER USE	3   IRRIGATION	7 D PUBLIC SUPPLY  COOLING OR AIR COND	TIONING	-	4			Wgr.	, CK	
	OTHER	9 🗍 NOT	USED		Ze J		Pana	~ E6	kates	
METHOD OF	Z CABLE TOOL Z ROTARY (CONVENT 3 ROTARY (REVERSE)			(	শ্ব			U		\
	N 4 D ROTARY (AIR)  S AIR PERCUSSION	• DRIVING	OTHER	DRILL	.ERS REMARK	:s	CH		120	665
NAME OF WELL CO		LICEN	CONTRACTOR'S		ATA OURCE	58 CON	TRACTOR 8-62 D	ATE RECEIVED		63-68 80
Capital ADDRESS  Box 490 NAME OF WELL SIGNATURE OF	Water Supply L	td. 15	558	ONI	ATE OF INSPE	CTION	558	SEP	2 2 1997	<u> </u>
Box 490	Stittsville,				EMARKS			<del>-</del> ·		<u>.</u>
S Mille	CHNICIAN/CONTRAGTOR	SUBMISSION DATE	097	OFFICE						ļ.
1 mil	and	DAY 20 MO		9						
MINISTRY	Y OF THE ENVIRO	NMENT COPY						FOR	M NO. 0506 (1	/86) FORM 9

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Mark correct box with a checkmark, where applicable.

11

1528887

Municipality	Con.				
15006	CON	1		0	3
10 14	15		22	23	24

County or District Ottawa Carleto		Kana	ough/City/Town/V	llage		С	on block	tract surv	ey, etc. Lo	13
Owner's surname  Landark Constr	28-47 First name	Address Rox 324	Stittsv	ille. (	Ontario	K2S 1	<b>A</b> 4	Date completed	7 <sub>day</sub> 12 m	48-5 25-0
21	u Zone	Easting No.	orthing	RC	Elevation		asin Code		ruay zas n	iv
1 2	M 10	OF OVERBURDEN A	24	MATERIA	LS (see inst	ao ai	s)			4
General colour Mo	ost common material	Other m				eneral des			From	epth – feet To
Brown S	oil					Fill			0	3
						Packe	د		3	9
	lay					racke HArd	<b>u</b>		9	120
Gray & White S	andstone					naro	•		<del>  9</del>	120
										-
							• • • • • • • • • • • • • • • • • • • •			
									-	
31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					4	:		1.1		
32					: :	i ! . !			. 1	
10 14 15 41 WATER REC	ORD 51	CASING & OPE	N HOLE REC	ORD	Size	es of openi	ng	31-33 Diameter	34 38 Leng	r5 39
Water found at - feet Kind of	inches	Material th	all Deficiences From	epth - feet To	SCREEN SIGNATURE	it No.)			inches	fee
10 13 1	Sulphur 14 6 17		188 0	22	5 S Mat	erial and ty	pe		Depth at top	of screen
15-18 NOT TES	☐ Gas ☐ Gaiphur 19 ☐ Minerals	Graduation   Grad								feet
2 L Salty	Gas 17-1	18 1 Steel 19		24	61		.UGGIN ular space	G & SEALI	NG RECOF  Abandonn	
₂ ☐ Salty 4	☐ Minerals ☐ Gas 5 7/	Galvanized 3 ☐ Concrete 4 ☑ Open hole	22	.5 120	Depth s From	et at - feet		rial and type (C	ement grout, b	entonite, etc.
25 - 28 1	☐ Sulphur <sup>29</sup> ☐ Minerals ☐ Gas	5 ☐ Plastic			20.5		Gr	outed C	ement (	3)
1	☐ Sulphur 34 69 ☐ Minerals	2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole			18-2	22	-33 80		•	-
2 ☐ Salty 6	Gas	5 □ Plastic								
Pumping test method 71 Pump 2 Bailer	Pumping rate	Duration of pumping	Mins			LOCAT	ION OF	WELL		1
Static level Water level end of pumpi	Water levels during	ı ÇPumping 2 ☐ Re	ecovery	In diag	ram below sl te north by ar	how dista	ances o	f well from ro	ad and lot I	
19 21 22.5		s 45 minutes 60 mi	nutes		7			PIAIR	776.776	
1.5eet 20 fee 2 If flowing give rate 38		feet 50 feet Water at end of test	20eet		(					11
GP GP	м 1	leet ☐ Clear 🕱 C	Cloudy		/					×
Recommended pump type  Shallow Deep	Recommended pump setting 30–50	Recommended pump rate	46-49		·	\				1
50-53		eet	GPM			$\setminus$ /		Wood,		0
FINAL STATUS OF WEI		ent supply 9 🔲 Unfinished	t woll			Υ	SX	ري بحي ''	Ó	Ϊ́
2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well	Abandoned (Other)	inty to heplacement		<del>-</del> - <del>-</del> <del>-</del>		- 4	•	سال		
WATER USE	55 S6		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	57 00	,	1				
, ₽ Domestic 2  Stock	5 Commercial 6 Municipal	9 ☐ Not used		ı	_	1				
₃ ☐ Irrigation ₄ ☐ Industrial	Public supply Cooling & air condition			[	G	1	3			
METHOD OF CONSTRU	CTION 57			8'		]	monahan			
Cable tool Cable tool Cable tool		9 Driving 10 Digging		* *		]	0			i
□ Rotary (reverse) □ Rotary (air)	/ ☐ Diamond <sub>3</sub> ☐ Jetting	n □ Other				_ ]	۶	16	<b>701</b> 5	ı
Name of Well Contractor		Well Contractor's Lic	cence No.	Data	5я С <b>а</b>	<u> </u>	0	59-62 Date re		63-68
Capital Water	Supply Ltd.	1558	ONE	source		<b>5</b> 5		MAI		996
	Stittsville, (			Date of insper	ston	Inspe	ctor			
Name of Well Technician	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Well Technician's Lic		Remarks						
	•									
W. Kavanagh Signature of Technician/Contrac	tor	T0095 Submission date day 8 mo 12	Cence No.						CSS.ES	2

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Mark correct box with a checkmark, where applicable.

2 - MINISTRY FENVIRONMENT & ENERGY COPY

1529027

Municipality	Con.	
15006	CON	1 03
10 14	15	22 23 24

0506 (07/94) Front Form 9

			1 2			• •	150	<u> </u>	<u>N</u>	22 23 2
County or District			Township/Borough/Cit	y/Town/Village	9		Con block	tract survey	etc. Lot	25-27
Ottawa Co				anata				3		13
1		rst name	Address					Date	·	48 -53
	onstruction <sub>v</sub>	Zone Easting	South Mounta	in. Ont	RC Elevation		Basin Code	completed 3		
21	. I	10 12	17 18	24	25 26				8i 1 1 1 1	vi ii .
		LOG OF O	VERBURDEN AND BE	DROCK MA	TERIALS (se	e instructio	ns)			4
General colour	Most common mate	erial	Other materials		General description					th - feet
Brown	Soil		Ob						From	То
			Stones			Pa	cked		0	4
Gray	Sandsto	one				Ve	ry Wet		4	45
		-								
						<u>.</u>				
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31 :				·						··
32				1 1 1 1		J : 1	البليانا	لبد الد	1	.
10 14	ED DECORD			43		54		<u> </u>		75 80
Water found	ER RECORD Kind of water	Inside	CASING & OPEN HOL	E RECORD  Depth -		Sizes of ope (Slot No.)	ning 31:	Diameter	34-38 Length	39- 40
at – feet	Fresh 3 Sulphur 14	inches	Material thickness inches	From	To 22	Material and	hmo	incl		feet
38	Salty 6 Gas	2 🗓	Steel 12 -188	2	22   5	Naterial and	type		epth at top of	41-44 30
	Fresh 4 Minerals	4	Concrete Open hole Plastic		_				·	feet
	Salty 6 Gas  Fresh 5 D Sulphur 24	17 18	Steel 19	-	20-23 6		LUGGING nular space	& SEALING		
1	Salty 6 Gas	] s 🗆	Galvanized Concrete Open hole	22	45	epth set at - fe	et	and type (Ceme	Abandonmer	
	Fresh 3 Sulphur 29 Salty 4 Minerals	5 🗇	Plastic	2.2	<b>~</b> ~		14 - 17			
	Galty 6 ☐ Gas		Steel % Galvanized		27-30		) Gro	uted Cen	ent (3	1)
'	Fresh 3  Sulphur 34 60 Salty 6 Gas		Concrete Open hole Plastic			26 29	30 33 80			
					L					
Pumping test me			ration of pumping			LOCA	TION OF W	ELL.		
	ater level d of pumping 25 Water levels	during   □ Pun	nping ₂□ Recovery		n diagram bel ndicate north	ow show dis	tances of w	ell from road	and lot line	<b>)</b> .
19.21	22-24 15 minutes 3	30 minutes 45	minutes 60 minutes	V	rialogio riorer	by arrow.				1
8 feet If flowing give rate Recommended pi	25 feet 43feet	40 feet	30 feet 25 feet	m	pocal	د مع				
If flowing give rate			ter at end of test 42				Te_			
Recommended p	ump type Recommended		☐ Clear ☐ Cloudy commended 46 49		4		l		_	18
-	Deep pump setting	30 feet pur	nprate <b>5</b> GPM		39 Th	3'6"	1			
50-53					~	36	1			19
FINAL STATUS  ,	iy , ☐ Abandoned,	, insufficient supply					}			र्भ
Observation Test hole	☐ Abandoned		10 Replacement well		_		i			19
₄ ☐ Recharge w	rell , Dewatering							_		
VATER USE	55 56 5 Commercial			1,	1-42/-			Loso e	<b>6</b>	3
Stock	€ ☐ Municipal  7 ☐ Public suppl		9 Not used 10 Other		~.OF <b>©</b>		1 5	~ <b>~</b> ~~~	. )	1,8
₄ ☐ Industrial	8 Cooling & ai						~×<~	(500		
ETHOD OF CO	NSTRUCTION 57							•		
Cable tool	5 ☐ Air percussion	on	9 Driving							
Rotary (cor)	erse) / Diamond		10 Digging 11 Other	-				1670	160	
	9 2 3 3 3 1 1 1			L				1670	סמר	
lame of Well Contrac	tor		Well Contractor's Licence No.	> Data	58 C	Contracctor	59-		f	63-68 80
Capital Wa	ter Supply Ltd	3.	1558	Source		155	8	AUG	1 3 199	1 1
Nodress P.O. Box 4			io K25 136	Date of	inspection	Inspe	ecto			
lame of Well Technici			Vell Technician's Licence No.	Remark	(S					
S. Miller ignature of Technicia	n/Contractor		T0097	IST						
Manage of Technicia	_		Submission date	Z Z				C	SS.ES	

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funicipality	Con.						
5006	CON	1	1	1	1	O.	3
14	15				22	23	24

County or District	t		Township	/Borough/City	/Town/Villag	е		Con block tract s	survey, etc.	Lot 25 27
Ottawa Car Owner's surname	rleton e Fire	st name	Kai Address	nata				<u></u>	)	12
	n Construction			escar L	ano C	arm Ont	aria MOI	Date comple	ted 4 day 5	month <b>98</b> /ear
21	u <sub>,</sub> z	one Easting	TOO M	Northing	30e C	RC Elev	ation RC	Basin Code	14 day 5	iv
1 2	т М 16		17	18	24	25 26		31		47
		LOG OF O	/ERBURDE	N AND BE	PROCK MA	ATERIALS	(see instruction	ons)	1	Donth 1:
General colour	Most common mate	rial	Oti	her materials			General	description	From	Depth – feet To
D										
Brown	Bandst Soi	1 -	Sto	nes	<del>-</del>					<del>) 6</del>
Gray & Wh:	ite Sandstone						Very	Hard		5 136
Goloured	Granite						Hard		130	5 175
								·		
	2,11,20.41.4									
31				Lili	عينا ل					
32					لـــــا لــ					
10 14 41 <b>WA</b>	TER RECORD	51	CASING &	OPEN HOL	E RECOR	D	Sizes of op	ening 31-33 Dian	neter <sup>34–38</sup> Le	75 80 ength <sup>39-40</sup>
Water found at - feet	Kind of water		Material	Wall thickness		- feet	(Slot No.)		inches	feet
10-13 1	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>14</sup> ☐ Minerals	inches	Steel 12	inches	From	22 <sup>13</sup> -5	Material an	d type	Depth at t	op of screen 30
	」Salty 6 ☐ Gas	6 1/4 2 🕱		-188	0	22.5	(Å)			feet
2 [	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>19</sup> ☐ Salty <sup>4</sup> ☐ Minerals ☐ Gas	5 🗆				!	61	PLUGGING & SEA	ALING RECO	ORD
	Fresh <sup>3</sup> Sulphur <sup>24</sup>	17-18 1				20-23	<b>y</b> - /	Annular space	☐ Abando	
	3 Salty 6 ☐ Gas	5 15 1	Concrete		22.5	75	Depth set at -	feet Material and typ	e (Cement grout	, bentonite, etc.)
25-28	Fresh <sup>3</sup> Sulphur <sup>29</sup> Salty <sup>4</sup> Minerals	16			22.5		21 (	14-17	Cement	(3)
TOS -	Gas Gas Fresh S T S Diphur 34 80	2 🗆	Galvanized		75	27-30	18-21	22-25	- Canalia	
2 [	→resh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	, la_U	Open hole Plastic		75	150	26-29	30-33 80		
		13 20 ·			150	175				
71 Pumping test m	-	20 GPM	ration of pumpi Hours				LOC	ATION OF WELL		
	Water level end of pumping Water levels		mping 2	Recovery	$\ \cdot\ $		n below show d orth by arrow.	istances of well fro	m road and lo	ot line.
		30 minutes 45	minutes	60 minutes 35-37		1	or arrow.			
Ŭ O T					_7	7				
If flowing give r			37 • 2 <del>de</del> et   ater at end of te	37 feet st 42	11					
37 feet  If flowing give r	GPM Recommended	feet 43-45 Re	☐ Clear	Cloudy 46-49	1			ימינהי	•	1
☐ Shallow	Deep	pu	mp rate	<b></b> .		- 1	i 1	410	- !	1
50-53	X '	140 feet		<b>5</b> GPM	1		, 1	$\hat{\Lambda}$	!	1
FINAL STATU		d ! ##-!	le 9	L - J	]		19	GN1	ł	
1 Water sup 2 Observati	ion well 6 🗌 Abandone		10 ☐ Replac	ement well			i	Indoor	1	- 1
3 ☐ Test hole 4 ☐ Recharge							•	6001	1	
WATER USE	55-56	. ,			<del> </del>	1	1	Lot #23	*	(
1 Domestic	c <sup>5</sup> ☐ Commercia <sup>6</sup> ☐ Municipal	al	9 🗆 Not use	ed		- 1		House # 107	53	1
3 ☐ Irrigation 4 ☐ Industrial	7 🔲 Public sup	ply air conditioning	G Other				İ	mouse 101	~ <b>~</b>	
					d_	}				)
	CONSTRUCTION 57	sion	9 🗌 Driving		<sub>.</sub> td	- 1	_ \	72 \	O -4	)
2 ☐ Rotary (c	ol 5 Air percuss conventional) 6 Boring reverse) 7 Diamond		10 🗌 Digging		114-		march	TYOOK	<del>~~~</del>	854
4 ☐ Rotary (a			Other.		ď				T02	UU 4
			)41. II O		<b> </b>		ia			
Name of Well Cont	ractor		Well Contracto	or's Licence No.	ONIC Data		58 Contracctor	59-62 Dat	e received	65-68 80 1000
Capital W	ater Supply Ltd	l•	1556	3	Date	of inspection	In:	spector J	UL Z	1998
P.O. Roy	490 Stitterill	e.Ontari	72g 3	A6	OSE Date					
Name of Well Tech	490 Stittsvill	<del>.c, on tal 1</del>	Well Technicia	n's Licence No.	Rem	narks				
S. Miller Signature of Jechni	ician/Contractor		TOO9	7	MINISTRY			C	SS. S	<b>9</b>
MI			da 15 mo		Ē					17
	WOTER OF A								0506 (07/9	4) Front Form
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Ministry of the Environment

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Municipality	Con.	
15006	CON	03

County or District		Township/Borough/City  KAnata	y/Town/Village		tract survey, etc.	Lot 13
Ottawa Carleton wner's surname	First Name	Address			Date	49.53
Gold Haven Construc	Zone Easting	P.O. Box 72		Ontario K2K 2P4 evation RC Basin Code	18day1	1 month 9 Sear
	M 10 12	17 18	24 25 26	30 3:		1 1 4:
	LOG OF OV	ERBURDEN AND BED	PROCK MATERIALS	(see instructions)		Depth - feet
ieneral colour Most commo	n material	Other materials		General description	Froi	· ,
Brown Soil						0 2
Gray & White Sands	stone			Very Hard	Margaret Margaret	2 90
			****			
				1.411		
 1		11			<u></u>	, 1 , 1 , 1 ;
<u>                                     </u>		1 <del>1   1   1   1   1   1   1   1   1   1</del>		<del> </del>		
1 WATER RECORD		ASING & OPEN HOLE	RECORD	Oizoo oi opoiiiig	65 11-33 <b>Diameter</b> 34-38	Length 39.40
ater found Kind of water	Inside diam	Wall Material thickness	Depth - feet From To	(Slot No.)	inches	feet
19-13 1 Gresh 3 Gulphui	s    5 1/4 X	inches 12 .188	0 22:5	Material and type	Depth a	at top of screen
80 Salty 6 Gas	r 19	Galvanized Concrete Open hole				feet
≥ ☐ Salty <sup>4</sup> ☐ Mineral	17-18	Plastic 19	20:23	61 PLUGGING	& SEALING REC	ORD donment
20-23	s 24 2 5 3 5	Galvanized Concrete		Depth set at - feet	erial and type (Cement gro	
25-28 Fresh Sulphu	29 5	Open hole Plastic	22.5 90	10-13 14-17	routed - Cem	en t(3)
Gas	2	] Steel 20 ] Galvanized ] Concrete		19:21 22:25		
1   Fresh   3   Sulphu 2   Salty   6   Gas	ls   4 [	] Open hole ] Plastic		26-29 30-33 80		
Pumping test method 10 Pumpi		uration of pumping	7 [ •	LOCATION OF	WELL	
Pump 2 Bailer  Otatio Issuel Water level	20 GPM	Hours Mins	In diagra	am below show distances		nd lot line.
Static level end of pumping end of pumping 22-24 15 min		umping 2  Recovery  5 minutes 32-34  60 minutes	11 1	north by arrow.		1
1 Ofeet 50 feet 8	26-28 29-31 5 feet 75 feet	32-34 35-37 60 feet 50fee	V	<u> </u>	<b>.</b>	1
If flowing give rate 38-41 Pump	intake set at V	later at end of test	$\frac{1}{1}$	nandrick	, View	3
Hecommended pump type		☐ Clear ☐ Cloudy  Recommended  46-49		mi AT was	1	4
☐ Shallow ☐ Deep pump	75 feet	pump rate 5 GPM	<u> </u>	30/ \	1	্গ্ৰ
INAL STATUS OF WELL	54			✓ <u> </u>		4
¹ Water supply 5 ☐ Ab	andoned, insufficient suppleandoned, poor quality	y <sup>9</sup> ☐ Unfinished  10 ☐ Replacement well	1	1	ı	નું
<sup>3</sup> ☐ Test hole <sup>7</sup> ☐ Ab	andoned (Other) watering		1			1
VATER USE	55-56		<b>-</b>	ı	1	4
2 🖺 Stock 6 🗆 Mu		9  Not use 10  Other	.]]		i	Ĕ
	ublic supply poling & air conditioning			hot #5		, A
METHOD OF CONSTRUCTION			<b>1</b> 1			
1 Cable tool 5 Air	r percussion oring	9 ☐ Driving 10 ☐ Digging				
3 ☐ Rotary (reverse) 7 ☐ Dia 4 ☐ Rotary (air) 8 ☐ Je	amond tting	11 Other			20	8508
lame of Well Contractor		Well Contractor's Licence No	Data	58 Contractor	59-62 Date received	63-68 86
	aler T#A	1558	source	1558	DEC 0	7 <b>1999</b>
Capital Water Support			Date of inspectio			
P.O. Box 490 Stit	tsville,Onta	rio K2S 1A6	<b>┧</b> ┃ <b>╸</b> ┣───			
lame of Well Technician		Well Technician's Licence N	o. Remarks			
Iame of Well Technician  S. Miller  ignature of Jechnician/Contractor		Well Technician's Licence No.  T0097  Submission date	Pemarks Remarks		C	SS.ES0



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Municipality 1506	Con.	111	03

Co	unty or District	<u> </u>			Townshi	p/Borough/City	/Town/Villac	je		Cor	block	tract survey	, etc.	Lot 25-27
C	ttawa C	arleton	-		Kar	nata				3		•	,	12
	mer's sumame cold Hav		Firs	t Name	Address Box	72059,	Kanata	ON.	K2K 2P4	ī		Date completed	31 day	07 01 month year
21			<u> </u>		asting	Northing	لبننا	RC	Elevation		in Code	ii -	iii 	iv
_	•	<b>,</b>	M 10	LOG OF	OVERBURDE	N AND BEDI	ROCK MA		s (see instr	uctions)				47
Ge	eneral colour	Most	common materia	al	Ott	ner materials			Ger	neral descri	ption		Fron	Depth - feet
В	rown	soil											0	5
G	rey &	white	sandstone	e									5	137
C	oloured	grani	te										137	150
									····· -					
													-	
													-	
			<u> </u>									<del></del>		
31		<del>         </del>		<del>                                     </del>			ببنا ك		ا لىلىا	<del></del>	4		1	البلبا
41	10 1-	R RECORI	21	51		PEN HOLE	L L		54 Size	es of opening	<u> </u>	1-33 Diameter	34-38	75 80 Length 39-40
Wat	ter found feet	Kind of w		Inside diam	Material	Wall thickness	Depth	1		ot No.)			nches	feet
	37 10-13 1N	Test Est		inches 6 11/4	1 Steel 12	inches •188	From	70 21 13-	Mat	terial and type	,		Depth at	top of screen 41-44
	45.40		Sulphur 19		2  Galvanized 3  Concrete 4  Open hole									feet
	00.02	」Salty <sub>6</sub> □	Minerals Gas Sulphur 24	17-18	5 Plastic  1 Steel  19			20-	61	PLUG		& SEALING	RECO	
	'	Salty 6	Minerals Gas		2 Galvanized 3 Concrete 4 Open hole				Depth From	set at - feet To	Mate	rial and type (Ce	ment grou	ut, bentonite, etc.)
			Sulphur 29 Minerals Gas	24-25	5 Plastic  1 Steel			27-		3 <b>0</b> -17	G	routed o	emer	it (2)
		Fresh 3 🗆	Sulphur 34 60 Minerals	6	2 Galvanized 3 Concrete 4 MOpen hole		21	150	18-2		80			
		Salty 6			5   Plastic				_					
71	Pumping test m		Pumping rate 2	11-14 <b>5</b> GPM	15.10	oing 17-18 Mins	1			LOCATIO				
٦	Static level e	Vater level and of pumping	Water levels d	-		2   Recovery	₽	Indica	te north by a	rrow.		of well from ro	oad and	d lot line.
3 TEST	34'6"	22-24	15 minutes 3	0 minutes 29-31	45 minutes 32-34	60 minutes 35-37	=	IO	1d Co	7 P Y	२व			
PUMPING	If flowing give ra	65 <sub>feet</sub>	145 feet Pump intake set a	100	75 feet Water at end of te	65 feet				•				
2	Recommended p	GPM	Recommended	fee 43-45		Cloudy 46-49				<b>.</b> Λ			/h	į.
	☐ Shallow	<b>™</b> Deep	pump setting 10	XO fee	pump rate	<b>5</b> <sub>GPM</sub>		ڪر ا	10	)" <u> </u>	FR.CH	BROOK.	د بررا ا	ie
	50-53 IAL STATU	S OE WELL	54							1 10	7 13	35	i	
	□	ply	- ∽ 5 ☐ Abandoned, i 6 ☐ Abandoned, p					CO CO		1	_		101	''
	<ul><li><sup>3</sup> ☐ Test hole</li><li><sup>4</sup> ☐ Recharge</li></ul>		<ul> <li>7 ☐ Abandoned (6</li> <li>8 ☐ Dewatering</li> </ul>				ا	9		1		<u>ر</u> کا	<b>V</b> .1	
WA	ATER USE		55-56					7		ŧ			A	
	1		<ul><li>5 ☐ Commercial</li><li>6 ☐ Municipal</li><li>7 ☐ Public supply</li></ul>		9 🔲 Not use	<del>9</del>		4		1		12	ι' Ι	
	4   Industrial		8 Cooling & air		g		5	1		, 1			•	
ME	THOD OF C			n	<sup>9</sup> □ Driving					•		•	1	
	<sup>2</sup> ☐ Rotary (co <sup>3</sup> ☐ Rotary (re	verse)	<ul> <li>Air percussion</li> <li>Boring</li> <li>Diamond</li> </ul>		10 ☐ Digging	g							22	0104
	<sup>4</sup> ☐ Rotary (air	r)	8   Jetting					11					23	0184
Nan	ne of Well Contr	actor				or's Licence No.	<b>→</b> Data source		58 Contrac	tor	0	59-62 Date recei		2001 63-68 80
C Add	apital I	Water S	upply Lta	i	1558		O Date	of inspect	tion	Inspecto	<u>0</u>	AUG	21	2001
	ox 490,		ville, Or	n. K25		an'e Line-or At	L OSE	arke						
s	. Miller	•			10097	an's Licence No.	MINISTRY	rai KS					CSS	.ES1
Sigr	nature of Technic	cian/Contractor	2		Submission day		WIN WIN							
<b>4</b>	- MINIS	TRY OF	) THE FNVI	RONM	IENT COPY	. yı 🕶 t							0506 (0	7/00) Front Form
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	A SALES		N.			A Standard	<b>t</b> ,		A Separate Separate				*1
& C	nta	ario		Ministry of the Enviror	2	Well Tag	Number		tief fine the first	Regulation 90	↓ 03 Ontari		Record
Instructio	ns for	Comple	atir	na Form	,	A	014	624		· · · · · · · · · · · · · · · · · · ·	, o o , , , , , , , , , , , , , , , , ,	*	of
<ul><li>For use</li><li>All Sec</li><li>Questi</li><li>All me</li></ul>	e in the tions r ons req <b>tre me</b>	Provin nust be garding o asurem	ce con om	of Ontario npleted in f	full to avoid application reported t	docume delays n can be	ent is a peri in process e directed t	nanent <b>leç</b> ng. Furthe o the Wate	al document. I	Please retain for futund explanations are averagement Coordinator a	vailable o t 416-23	ence. on the back o	
Address of W						~	To	wnship		Lot		Concession	1
RR#/Street N	lumber/	Name		Casi				City/Town/	Village	Site/Comp	artment/E	る Block/Tract et	tc.
GPS Readin	<b>9</b> ,	NAD	Zon	e Easting		Northi		Unit Make/	Model Mod	e of Operation: 🔃 Un	differentiate	Aurona de la companya	
Log of Ove		8⊥3 len and	Be		5 87√ iterials (se	e instr	<u>2 33 3 </u> uctions)	TILAC	gelan	Dif	ferentiated,	specify	
General Colou	<del>-</del>	lost comm	on	material	0	ther Mate	erials		Gener	al Description		Depth From	Metres To
0 (0.	C	lau	,	\ <b>~</b>	^ ^	1			* .			0	1.2
gree	13	and	S	Dre	gree	1 110	neon	ne	mixe	C		1.2	21.3
					The state of the s				THE REAL PROPERTY OF THE PROPE				
						~ ***	,						
Hole	Diame	ter	<u> </u>	1	THE STREET STREET	Consti	ruction Rec	Led		T.	st of Wel	I Viald	
Depth	Metres	Diamete		Inside			Wall	Depth	Metres	Pumping test method		Down R	ecovery
From	To	Centimetr	es r	diam centimetres	Material		thickness centimetres	From	То	Sulpunp	Time Wa	ter Level Time Metres min	Water Level Metres
0 2	1. 2	12.59			i de		Casing			Pump intake set at - (metres)		171	12.29
					Steel Fit	oreglass	110		1	Pumping rate - (litres/min)	1 7	,20 1	7.53
Water found at Metres	er Reco	rd d of Water	Н	15.88	Galvanized		.48	0	1.3	Duration of pumping hrs + mir		·27 2	6.24
at Metres	Fresh	Sulphi			SteelFit PlasticCo	oreglass oncrete				Final water level end of pumping ametre	3 C	. <b>95</b> 3	6.05
Other:	Salty	Minera	ųs		Galvanized			THE PERSON IN PROPERTY OF THE PERSON IN PROPERTY OF THE PERSON IN PROPERTY OF THE PERSON IN PROPERTY OF THE PERSON IN PARTY OF THE PERSON		Recommended pump type.		.UY 4	5.99
	Fresh Salty_	Sulphi			Steel Fib					Shallow Deep	59	&O 5	5.92
Other:	Fresh	Minera CC Sulphi			Galvanized		Screen		atter y in a street	Recommended pump	3		5.77
Gas Other:	Salty	Minera		Outside diam	Steel Fit	oreglass	Slot No.	300 September 1971		rate. (litres/min) If flowing give rate -	15 11	. 29 15	5,65
After test of we					Plastic Co	ncrete				(litres/min)	20 //	.SS 20 .&Y 25	5.56
Clear and s	Sted	ree		L   St.		No Ca	sing or Scr	<del></del>		If pumping discontinued, give reason.	30 //	2.0 40	5,44
Chlorinated -	Yes	☐ No			Open hole			6.7	21.3		50 / 3	2. <b>20</b> 50	5,25
	Plugg	ing and	Sea	l iling Recor	d 🗓	-Annular s	space	andonment		Location	1	<b>≀.⊋9</b>   60	3,13
Depth set at - N	etres To	laterial and	type	e (bentonite slu	ırry, neat ceme	nt slurry) e		e Placed metres)	In diagram below		<del></del>	lot line, and bu	الما
6.7	0	Cer	$\sim$	ents	Stur	4	0.20	343		y arrow.			14
		7								id Carpe	9		·
									لـ ا	210			
			M	ethod of Co	onstruction	<del> </del>				was from	,	- mule	
Cable Tool	entional)	∏ Rota	у (а	nir)		nond		Digging Other		191/100	nchk	poole	
Rotary (reve	1	Borir			☐ Drivi	•		Otrier		Car	C		
Domestic		Indus	l			ic Supply		Other					ĺ.
☐ Stock ☐ Irrigation		Com			Localita	used ling & air d	conditioning	:	Audit No. <b>7</b>	4 E	te Well Co	mpleted	MM DD
Water Suppl	:	Recharge	wel	Final Statu	s of Well	nished	Abando	ned, (Other)	Pica .		te Delivered		
Observation Test Hole				nsufficient sup oor quality		atering acement v	well		package delivere		20	DY (	%28°
Name of Well C	ontractor	Well C	-		nician Info	rmation	Contractor's L	cence No.	Data Source	Ministry Us	e Only ntractor 🐗	4 4 4	
11/16	Kocl	pame, nu	mbe	le (z	syd		119		Date Received	-	te of Inspec	etion yyyy	<b>J</b>
KIL	1 1	(last name	<u> </u>	nion	d,D	J.	Technician's L	icence No	U JUL 2	1 2004	- P	- · · · · · · · · · · · · · · · · · · ·	MM DD
Signature of Ve	10	U		shor	non	7~	L(2)		Remarks	VVe	ell Record N		_
x HO	2						100rl	0116				3479	
0506E (09/03)				Contra	actor's Copy	∐ Mini	stry's Copy L	vvell Ow	ner's Copy 🗌	Cette fo	rmule es	st disponible e	ən trançais

	Onta	∏O₂∵ tr	linistry of ne Environm		Number (Place	THE PART OF THE	number below)	Regulation 903 Ontario		
<ul><li>For u</li><li>All Se</li><li>Ques</li><li>All m</li><li>Pleas</li></ul>	use in the ections <b>m</b> stions rega netre mea se print cl	ust be com arding comp surements early in blue	f Ontario o pleted in ful pleting this a s shall be re e or black in	I to avoid delays application can be aported to 1/10 <sup>th</sup>	ent is a perma in processing e directed to t of a metre.	nent <b>legal</b> Further in	structions and	ease retain for future reference lexplanations are available of the coordinator at 416-235  Ministry Use Only	II tille back of	this form.
								- Marie - Mill at Canadasian	Ĵ	
RR#/Stree Lot 7 GPS Read	ding N	Name rick Vie NAD Zon B 3 18	Easting <b>4256</b>		ing U	anata ity/Town/Vill Kanata nit Make/Mo Garmin		Site/Compartment/E	ed <b>X</b> Aver	
General Co	olour M	ost common	material	erials (see inst Other Ma		pack	ed	l Description	Depth From 0	Metres To 2.43 22.85
gray &	white	sandsto	ne			very	hard		2,43	22.03
	i i pi		<u> </u>	Cons	truction Reco	rd		Test of We	II Yield	
Depth From	Metres To	Diameter Centimetres	Inside diam	Material	Wall thickness centimetres	Depth From	Metres	Time W	/ Down F /ater Level Time Metres min	
<b>6.4</b> 0	6.40 22.85	22.75 15.07	centimetres	Steel Fibreglass	Casing			Pump intake set at - Static	1.85 2.62 1	1.97
	Water Rec		15.86	Plastic Concrete Galvanized	0.48	+1.67	6.40	Duration of pumping 2  1 hrs + min	<b>2.74</b> 2	2.04
Water foundat Met	Fresh Salty	d of Water Sulphur Minerals	1 1	Steel Fibreglass Plastic Concrete Galvanized			. ,	Final water level end 3 of pumping 3 metres Recommended pump 4	2.78 3 2.81 4	0.07
NOT of Gas Other:	ESTRIBsh Salty	Sulphur Minerals		Steel Fibreglass Plastic Concrete Galvanized				type. Shallow Deep Recommended pump 5 depth. 15 23 etres	<b>2.83</b> 5	2.03
m	Fresh	Sulphur			Screen			Recommended pump 10 rate. (litratamais) 15	2.87 10 2.92 15	
Gas Other:	Salty	Minerals	Outside diam	Steel Fibreglass Plastic Concrete	Slot No.			If flowing give rate - 20	2.94 20	1.96
	of well yield, and sedimen			Galvanized				(litres/min) 25 If pumping discontinued, give reason.	2.97 25 2.98 30	1.94
Other,					asing or Scre	en		40 50	3.00 40 3.03 50	
Chlorinate	ed 🗶 Yes	□No	15.07	Open hole		6.40	22.85	60	60	
Don't out			aling Recor	d Annula	Volum	andonment e Placed	In diagram belo	Location of Well w show distances of well from road		ouilding
From	То			urry, neat cement slurry	(cubic	metres)	Indicate north b		, 100 11110, 1110 1	, all of the
6.40	0	Groute	d Bentor	ite Slurry	.110	)m.3		•		
								x p	itless	1
								·		ŧ.
			Method of C	onstruction		~	١٩			1
☐ Cable T	Tool (conventions	Rotary al) 👿 Air per		☐ Diamond ☐ Jetting	. [	Digging Other	1	Lot 7		i 1
Rotary	(reverse)	Boring	Water	☐ Driving Use			San San	Panandrich	4 11	
Domes Stock		☐ Industr ☐ Commo	ercial	Public Sup Not used Cooling & a	oly	Other	Audit No.	Data Mall (	Completed	MM DD
Water		Recharge w	Final Statu ell , insufficient su	Unfinished	_	ned, (Other)	Was the well o package deliver	wner's information Date Delive	2005	00 2 X 00 20 09 29
Test F	T	Abandoned	poor quality	Replaceme	nt well			Ministry Use Only		
1	Well Contract				/ell Contractor's L 1558	icence No.	Data Source	Contractor	15	50
Business /	Address (stre	et name, num	ber, city etc.)	o K2S 1A6	1.1.30		Date Received OCT 2	4 2005 Date of Insp	pection YYYY	MM DD
Name of V	Nell Technici	an (last name,	first name)	W RZS IAU	/ell Technician's L	icence No.	Remarks	Well Recor	d Number	<del></del>
Signature	Teginicia	n/Contractor		De	ate Submitted <sub>YYYY</sub> 2005	MM DD 09 29				
0506E (09/	(19 <b>/19/20</b> 103)	v~l	Cont	ractor's Copy 📗 N	Ministry's Copy		ner's Copy 🗌	Cette formule	est disponibl	e en français

	lano	Ministry o the Enviro		II Tag Number (PI	457	rint number below)		Regulation 90	3 Ontari	o Water Re	
<ul><li>All Section</li><li>Questions</li><li>All metre</li></ul>	the <b>Province</b> ns <b>must</b> be con regarding con	of Ontarion of Ont	full to avoid de is application o e reported to	A035457 cument is a perrelays in procession be directed to 1/10th of a metre	manent <b>lega</b> ing. Further to the Water	instructions an	nd exili	anations are av	ailable o 416-23	ence.	of this form.
Well Owner's				Information	MUN	C	CON	ministry 03	e omy	LOT	
Ottawa Carl RR#/Street Num 927 March R GPS Reading	ber/Name Road NAD Zoi 8 3 18	42	63 76	Northing 79	Kanat City/Town/V Kanat Unit Make/M	illage <b>:a</b> lodel Mod	e of Op	Site/Compa	artment/E lifferentiate erentiated,	23	
Log of Overb	urden and Bo	edrock M	aterials (see	instructions) er Materials			al Desc			Depth	Metres
Brown	Clay					Pac		приоп		From <b>O</b>	1.9
Gray	Limesto	ne				Har			-	1.98	12.1
Gray & Whit	e Sandsto	пе				Har	d			12.19	22.2
						-					
						A					!
Hole Dia			C	onstruction Rec	ord				t of Wel		
Depth Metr From To	Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	sub	ping test method mersible p intake set at -		nter Level Tim Vetres mi	Recovery le Water Leve n Metres
9.75 22.2 Water R		15.86	Steel Fibre	casing glass 48	+ .45	9.75	Purn (litres	res)19_81 ping rate - s/min) 54_6 tion of pumping		.60 .73 <sup>1</sup>	4.90
Water found at Metres Fre	Kind of Water esh Sulphur alty Minerals	=	Galvanized Steel Fibres Plastic Conci				3 Final	hrs +_30 min water level end imping 5 metres	3 3		
Gas Sa	esh Sulphur Ilty Minerals		Steel Fibre				type.	Shallow Deep ommended pump 1. 15.23 netres		.85 4 .87 5	4.78
Other: Fre	esh  Sulphur		Galvariized	Screen			Reco	mmended pump	10 🔥	03 10	4.61
Gas Sa Other: not After test of well yi	eld, water was	Outside diam	Steel Fibred Plastic Conci	Table 1	-		If flov	wintes/min) ving give rate - (litres/min) nping discontin-		13 15 22 20 30 25 36 30	4.45 4.45 4.37
Other, specify_				No Casing or Scr	een		uea,	glve reason.	40 4	47 40	4.22
Chlorinated Ye	es 🗌 No	15.55	Open hole		9.75	22.24			60 4	57 50 64 60	
Depth set at - Metre From To  9.75	iviateriai ariu typ	oe (bentonite :	ord A Ai slurry, neat cement s onite Slur	slurry) etc. Volur (cubi	bandonment me Placed ic metres)	In diagram belo		Location of distances of well fr		lot line, and t	ouilding.
			·				Ales	<u>3</u>			
Cable Tool Rotary (conventi	Rotary	(air)	Construction  Diamo	. =	Digging			Song			
Rotary (convented   Rotary (reverse)		Wate	☐ Jetting☐ Drivinger Use☐ Public		Other	1	M	1927 Ionch Ro	\		
Stock Irrigation	Comme Municip	oal Final Sta	tus of Well	g & air conditioning	oned (Other)			220	e Well Co	ompleted YYYY 2006	MM DD
➤ Water Supply     ☐ Observation wel     ☐ Test Hole	Recharge w  Abandoned,  Abandoned,	insufficient s		and the second second	oned, (Other)	Was the well over		Yes No	. Juliyere	2006	MM DD
Name of Well Contr Capital Wa	Well Con ractor ter Supply	tractor/Te	chnician Inforn	<del></del>	Licence No.	Data Source			ntractor	199	58
Business Address ( Box 490 S Name of Well Techn Miller St Signature of Techn			rio K2S 1A	Well Technician's T0097 Date Submitted		Date Received JUL Remarks	111	2006	e of Inspe		MM DD
0506E (09/03)	may	Con	tractor's Copy	200	6 6 29	ner's Copy 🗌		Cette fo	ormule e	st disponibl	e en français

	Ministry of the Enviror		ell Tag Number (F	Place sticker and pr	int number below)	Regulation 90	<b>Wel</b> 3 Ontario Water	I Record
<ul> <li>Instructions for Completin</li> <li>For use in the Province</li> <li>All Sections must be con</li> <li>Questions regarding com</li> </ul>	of Ontario	iull to avoid d	elays in process	sing. Further	instructions an	d explanations are ava	re reference. ailable on the ba	age of
<ul> <li>All metre measurement</li> </ul>	s shall be	reported to	1/10 <sup>th</sup> of a metr	e. ———	vveii ivianage			
<ul> <li>Please print clearly in blu</li> <li>Well Owner's Information</li> </ul>			Information	MUN	С	Ministry Us		LOT
Well Owner's Illiornation	and Loca	don or wen	miormation					
Ottawa Carleton RR#/Street Number/Name	2.			Kanata City/Town/V	illage	Site/Comps	1 artment/Block/Tra	4 act etc
941 March Rd. GPS Reading NAD Zor	ne Eastin	a .	Northing	Kanata Unit Make/M	a			Averaged
8 3 18 Log of Overburden and Be	426	390	5023443	Garmin		·	erentiated, specify	]
General Colour Most common	<del></del>	Ţ	er Materials		Gener	al Description	Dep Fro	
		. :			, s			
	,					· .		5
						•.		
						A	-	
						5		
Hole Diameter			Construction Re	cord			t of Well Yield	
Depth Metres Diameter From To Centimetres	Inside diam	Material	Wall thickness	Depth	Metres	Pumping test method	Time Water Level	Recovery Time Water Leve
	centimetres		centimetres	From	То	Pump intake set at -	min Metres Static	min Metres
		Steel Fibre	Casing			(metres) Pumping rate -	Level 1	1
Water Record		Plastic Con				(litres/min)  Duration of pumping	2	2
Water found / Kind of Water at Metres /		Steel Fibre	eglass			hrs + mir		
m Fresh Sulphur Gas Salty Minerals		Plastic Con	crete			of pumpingmetres	3	3
Other: Sulphur		Steel Fibre	eglass		,	Recommended pump type.  □ Shallow □ Deep	4	4
Gas Salty Minerals Other:		☐ Plastic ☐ Con	crete			Recommended pump depth. metres	5	5
m Fresh Sulphur			Screen			Recommended pump	10	10
Gas Salty Minerals Other:	Outside diam	Steel Fibre	- T-14 .			(litres/min) If flowing give rate -	15 20	15 20
After test of well yield, water was  Clear and sediment free		Galvanized	3,010			(litres/min) If pumping discontin-	25 30	30
Other, specify			No Casing or S	creen		ued, give reason.	40 50	40
Chlorinated Yes No		Open hole					60	60
Plugging and Se			Vol	Abandonment ume Placed	In diagram halo	Location w show distances of well f		and building
From To Waterial and ty		lurry, neat cemen	(cu	bic metres)	Indicate north b		on road, locality,	and building.
6.09 0 Groute	d Bento	nite Slur	ry 21n	ch hole	100			
				· · · -		<u> </u>	<b>」                                    </b>	
		Construction					· · · · · · · · · · · · · · · · · · ·	
☐ Cable Tool ☐ Rotary ☐ Rotary (conventional) ☐ Air per	(air) cussion	☐ Diam ☐ Jettin		☐ Digging ☐ Other		N.A.		
Rotary (reverse) Boring	Wate	Drivir	ng -			March F	(4	
Domestic Industri		☐ Public	c Supply	Other				
☐ Irrigation ☐ Municip	oal		ng & air conditioning		Audit No. <b>Z</b>	47023 Da	te Well Completed	
Water Supply Recharge w	/ell	Unfin	<i></i>	ndoned, (Other)		wner's information Da		YYY MM DD
Test Hole Abandoned	, insufficient so , poor quality	Repla	atering acement well		package deliver	Ministry Us	e Only	
Name of Well Contractor	· · · · · · · · · · · · · · · · · · ·	hnician Infor	Well Contractor	s Licence No.	Data Source		ontractor	558
Capital Water Sup	ber, city etc.)		1558		Date Received	YYYY MM DD Da	ate of Inspection Y	YYYY MM DD
box 490 Stittsvill Name of Well Technician (last name,	le Ontar	rio K2S	1A6 Well Technician	's Licence No.	AUG Remarks	2 5 2006 I	ell Record Number	1
Miller Stephen Signature of Technicia//Contractor			Date Submitted y	YY MM DD				
X 500, Kwar (	<u> </u>	tractor's Come	2006  Ministry's Cop	7 20	ner's Cony	Cette	formule est dispo	onible en français
0000⊏ (0 <del>8</del> /03) -	Con	паског в Сору (	iviii iisiiys COp	y ∟ wenow	пога сору 🗀	Jone	Joe diopo	on manyah

	Ontario	
IYYI	()ntario	
	Officallo	

We	II Tag N	lumber	(Place	sticker	and pri	nt numbe	r below)
	A04	1907			Apriles 1		
	174	04					

	A Land			Reco	
eaulai	tion 903	Ontario	Water R	Resources	Act

		ario	Ministry of the Enviro		Well Tag Number (Place sticker and print number) A041907 A 041907				Regulation 903 Ontario Water Resources page of					
• For us	se in the	e Province must be c	completed in	full to avo	s documen	nt is a perr n processi	manent <b>lega</b> ing. Further i	nstructions an	□ Please retain for future Id explanations are ave ment Coordinator at	ailable o	ence. n the ba	ck of		
<ul> <li>All m</li> </ul>	etre me	easureme	ents shall be blue or black	reported	to 1/10 <sup>th</sup> c	of a metre	e the water		Ministry Us		<del></del>			
			on and Loca	<u> </u>	Vell Inform	nation	MUN	С	ON			_OT		
			ļ	,										
Ottawa RR#/Street			•				Kanata City/Town/Vi	llage	Site/Compa	11 artment/l	4 Block/Tra		D.	
941 M GPS Readi			Zone Eastir	ıa	Northing	a	Kanata Unit Make/M	odel Mod	e of Operation: Unc	lifferentiate	he he	Avera	aned :	
og of O	verbur			390	502	3443	Garmin			erentiated,	-	7 (10)		
General Col			on material	ateriais (	Other Mater			Gener	al Description		Dept		Metres	
Brown		C1a	<b>y</b>					Packed			Froi	n.	2.74	
grey		1ime	stone					Hard			2.74		11.58	
grey&w	hite	sand	stone			:					11,58	1	22,24	
								<del></del>						
				1										
Depth	le Diam Metres	- 1	ar l		Constru	uction Rec	T'		- I	t of We	Il Yield Down		ecoverv	
From	To	Centimetr	inside	Mate	rial	Wall thickness	Depth	Metres	Pumping test method	Time Wa	ater Level	Time	Water Level	
0	6.40	22.7	5 centimetres			entimetres	From	То	Submersible Pump intake set at -	Static	Metres	min	Metres	
6.40	22.24	15.2	3	Steel		asing	1		(metres) 18.28 Pumping rate	Level 1 5.	83	1	5.46	
			15.86	Plastic	] Concrete	.48	+.45	6,40	(litres/min) 50.05  Duration of pumping			2	E /1	
Water found at Metre	ater Red	c <b>ord</b> nd of Water	—-∤ I	Galvanize	Fibreglass	****	****	0140	hrs + mir				5.41	
20.72	Fresh		11		] Concrete				Final water level end of pumping 7.01 metres	3 <b>6.</b>	21	3	5.39	
Gas Other	∐ Salty <del>bት Tຍ</del> ີ	U Miner	als	Galvanize					Recommended pump type.	4 6	.30	.4	5.36	
☐ m☐ Gas	Fresh	= '			Fibreglass Concrete				Shallow Deep Recommended pump	5 6	.35	5	5.34	
Other:	· · · ·			Galvanize					depth 15.23 metres Recommended pump					
Gas	Frest ☐ Salty	= .		Steel	Fibreglass	Screen Slot No.			rate. 45 5 (litres/min)		.62	15	5.23 5.16	
Other: _ After test of	well viel	d water was	diam		Concrete —	SIOL NO.	_		If flowing give rate - (litres/min)		.76		5.14 5.12	
Clear an	-		'   <u>                                   </u>	Galvanize	ed				If pumping discontinued, give reason.		.79		5.10	
Other, s	pecify					sing or Sc	een 40 6.				.88		5.07 5.04	
Chlorinated	Yes	No	15,23	Open hole	e ,		6.40	22.24			.01		5.02	
Davilla and A		gging and	Sealing Reco	ord	Annular s		Abandonment me Placed		Location		tot Pool			
Depth set at From	To	Material and	d type (bentonite :	slurry, neat ce	ement slurry) el		pic metres)	In diagram beid Indicate north b	ow show distances of well for arrow.	rom road,	iot line, a	ina bu	liaing.	
6.40	0	Grou	ted Bent	onite S	lurry	.2	1m3	NO		¥ 941		1		
					<u> </u>							1		
												7 1		
			-	0							<b>.</b>	1		
Cable To	ol	Rota	Method of ary (air)	<del></del>	<b>ion</b> Diamond		Digging		4		87/es	1		
☐ Rotary (c		nal) <b>⊠</b> Air ⊟Bori	percussion ina	=	Jetting Driving	. [	Other				branco	)  -  -	######################################	
			Wat	er Use					March Rd					
Domestic Stock	:	- Lunard	ustrial nmercial		Public Supply Not used		Other							
Irrigation		Mur	nicipal Final Sta		Cooling & air o	conditioning		Audit No. <b>Z</b>	47021 Pa	te Well C	ompleted YYY <b>20</b>		MM 188	
Water St		Recharg	e well		Unfinished ·	Aban	doned, (Other)		owner's information Da	ate Deliver	ed , y	YYY	MM DD	
☐ Observat ☐ Test Ho		_	ned, insufficient s ned, poor quality		Dewatering Replacement v	well		package deliver			Za	<i>36</i>	7 18	
Name of We	II Contrac		Contractor/Te	chnician I			Licence No.	Data Source	Ministry Us	ontractor	<b>4</b> .	<u> </u>		
			umber, city etc.)			1558				ate of Inco	ection Y	5	58	
Box 4	190	Stittsv	ville Ont	ario K2	2S 1A6				2 5 2006			YYY	MM DD	
Name of We	ell Technic	cian (last nar Stepher	ne, first name)		Well	20007	s Licence No.	Remarks	w	ell Record	Number			
Signature of	///nicj	ap/Contracto	1		Date 9	Submitted 200	7 MM DD							
0506E (09/03		vonce	Cor	tractor's Co	opy 🗌 Mini		/ Well Ow	ner's Copy	Cette	formule (	est dispo	nible	en français	

Date Submitted
2006 | 7 | 18

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

nd/or Print Below)

Well Record

Regulation 903 Ontario Water Resources Act

asurements recorded in: Metric Imperial

A 074700

A074700

Well Ow	mer's Info	rmation		111111111111			11410111111111	11011100	data.	Pag	3_/_	_ or _/
137	10 Nad	ia Lar	ie			Mor	ch	13		2		
611	10	1 1			(	City/Town/V	, -		Ont			al Code
UTM Coord		Easting	I No	orthing	1	Municipal P	lan and Subl	ot Number	Other	ario	1	1K2B9
NAD			07 5		612	and to the	_	e back of this form)		_		
General C			non Material	mment Se		ner Materia		General Description				pth (m/ft)
	CI	lau I are	avel								From	7
blace		mesto									7'	47/
grey		indstoi									47	95
- 1	white	Sand:	stone								95'	110
grey	Sar	dstone		ey cla	y)						110	115
0 ,			0		/ -							
photosis soci	1517-111-111-111		Annala	Space	6485599 <del>299</del>	125222222	0.0000000000000000000000000000000000000	Burghaman II.	0.25	42		
Depth Se	et at (m/ft) To		Type of Sea	lant Used			ne Placed	Results of We After test of well yield, water was:	Dr	aw Down	F	Recovery
0	/	18-	(Material an				n³/ft³)	Clear and sand free  Other, specify	Time (min)	Water Lev (m/ft)	el Time (min)	Water Level (m/ft)
C	22	200	gs cei	meni	L	0.0		If pumping discontinued, give reason:	Static Level			
		a Da	gs gui	ickgr	ou T	0.0	4 4		1	9.90	1	11.68
								Pump intake set at (m/ft)	2	12.48	/ 2	10.60
Meti	hod of Cor	struction	84 09460	131214919	Well Us	9	ORANGO HATOS	Pumping rate (Vmin / GPM)	3	13.88	3	9.82
Cable To					☐ Comme	ercial Not used		19 gpm	4	1483	4	9.25
Rotary (	Conventional) Reverse)	☐ Jetting ☐ Driving	Live		☐ Municip		Dewatering Monitoring	hrs + min	5	15.52	5	8.85
Boring Air percu	ıssion	Digging	☐ Irrig		Cooling	& Air Condit	ioning	Final water level end of pumping (m/ft)	10	17.32		7.68
Other, s				er, specify				5 . 60 If flowing give rate (l/min-/ GPM)	15	18.10	15	7.15
Inside		oR Material	ecord - Cas Wall		h ( <i>m/ft</i> )	Status	s of Well	Bassan ded a way double (a Mills	20	18.65	/ 20	6.83'
Diameter (cm/in)	(Galvanized	d, Fibreglass, Plastic, Steel)	Thickness (cm/in)	From	То	Replac	cement Well	Recommended pump depth (m/ft)	25	18.87	25	6.65
15.24cm	n		,48cm	_′	901	_ Test H		Recommended pump rate (Vmin / GPM)	30	19.20	30	6.50
15.0101	1'		, , , , , , , ,	0	22		ering Well vation and/or	Well production (J/min / GPM)	40	19.60	40	6.30
							ring Hole	60 gpm	50	1991	50	6.18
							truction)	Disinfected?	60	20.24	60	6.031
a aljej	Co	nstruction Re	ecord - Scree	en	953146153	Insuffic	cient Supply oned, Poor	Map of W	ell Loc			
Outside Diameter		terial vanized, Steel)	Slot No.	Depth From	n (m/ft) To	Water	Quality oned, other,	Please provide a map below following	instructi	ons on the	back.	
6"	61	i		/	,	specify	′		1			
-6	Stee	1		0	22	Other,	specify		1	Vadia	Lan	P
en singl	120253146918	Water Det	ails	N LS JAJANA	н	ole Diame	tor		13	Vadia	100,17	
,		Kind of Water	Fresh	Untested		h (m/ft) To	Diameter (cm/in)			1		
		Other, spec		Untested	0'	aa'	25.4cm					
113 (m	v/ft) ☐ Gas	Other, spe	cify			do	25.74					
		Kind of Water Other, spe		Untested								
	We	II Contracto		Technicia	n Informat	ion	laniausia			/	,	1 -
	ame of Well	-		7			s Licence No.			90't	rom	house
Business A	ddress (Stree	→ SONS  et Number/Nar	me)	DRIL	LING 6	nicipality	5 8	Comments:				
RR <sub>I</sub> Province		all Shor		Mol	Donalds	Corn	ers					
Ont	K	0010	o WI	1 fhall	Itd@b	ellnet		Well owner's Date Package Delivere	t l	Minis	stry Use	e Only
Bus.Telepho	ne No. (inc. a	rea code) Nar	me of Well Te	echnician (l	Last Name, I	First Name)		information package delivered 200809:	- 11	Audit No.	2 8	216
Well Technici	an's Licence N	lo. Signature		and/or Co			- 1:-	Yes Date Work Completed		OCT	1 5 20	
722 0506E (12/200	28	Mar	kHal	l .	8	0080		No 200809	30	Received		W. I. S.
112/200	,					Ministr	y's Copy			© Queen	s Printer fo	or Ontario, 2007

Measurements recorded in:

Ministry of the Environment

Metric

Imperial

Tag#: A135310

A135310

Print Below)

Well Record

Reg Page\_ of

gulation	903	Ontario	Water	Resources	Ac
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	Well Location (Street Nu	•	7	Fownship	~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Lot	Concess	on 2	
	Marchbrook Circ strict/Municipality	<u> </u>			eton)MARCH (2 3 Province Postal Code				
•	tawa-Carieton			Kanata		Ontario			
	linates Zone Easting	Northing	<u> </u> N	Municipal Plan and Sub	lot Number		Other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	8 3 18 425			4M-723			3		
Overburd	en and Bedrock Materi	·			3			Dei	pth (m <b>@)</b>
General C	olour Most Comm	non Material	Oth	ner Materials	Gene	ral Description		From	To
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űrey.	}	Limestore					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	37
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		Annular Space				<del></del>	Il Yield Testin		
Depth Si From	et at (m(ft))	Type of Sealant Us (Material and Type		Volume Placed	After test of well yield,  Clear and sand f		Draw Down Time Water Le	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Recovery :: Water Level
20 1	o' Neat o	entent		4 m sun	Other, specify		(min) (m/ft)	, ,	,
		WALKANIA WAS CALEARAMA FRA LEGAL ECCAPA ALECCOA MA EARLECCOCO	1133300000-33111-0		If pumping discontinue	·~··~	Static 18.8		56.8
<u></u>					$\parallel$		1 28,6	1	353
		······································			Pump intake set at (n	r <b>@</b> )			
		ı	·		80'		2 34.5		<del>25</del> .4-
Meti	nod of Construction		Well Us	e	Pumping rate (l/min /	RPM)	3 <b>38.</b> 2	3	18.8
Cable To		Public	☐ Comme				4 41.4	4.	18.8
	Conventional)	Domestic	☐ Municip	•		nin	5 45,4		
Rotary (F	Reverse) Driving Digging	Livestock Imigation	☐ Test Ho☐ Cooling	le	Final water level end o		40 *	40	
Air percu	ission	☐ Industrial			56'8"	,	10 51.4	10	
Other, st	· · · · · · · · · · · · · · · · · · ·	Other, spe			If flowing give rate (l/n	nin / GPM)	15 Sas	3 15	
Inside	Construction R	<u> </u>	epth ( <i>m∰</i> )	Status of Well  Water Supply			<sup>20</sup> 53.	20	
Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Thickness	1	Replacement Well	Recommended pump	o depus ( <i>nvity</i>	<sup>25</sup> 53.5	25	
(cm/(Q)	Concrete, Plastic, Steel)	(Citotto)		Test Hole	Recommended pump	rate	20 -		
64"	Stack   Stack	1881	2   20	Recharge Well Dewatering Well	(1/min / QPM)	Constant	30 54.	30	
6"	Open Hole	21	) <u> </u>	Observation and/or	Well production (I/min	(GPN)	40 55 à	40	
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Outside	Construction Re	adiainadinadihkaanamanagnasihkalakiskis L	onth /m/ff)	Abandoned, Poor Water Quality	Please provide a map		ell Location	hack	
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### **APPENDIX 3**

**QUALIFICATIONS OF ASSESSORS** 

### Samuel Berube, B. Eng.

## patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

**Materials Testing** 

**Building Science** 

Archaeological Services

### **POSITION**

Junior Environmental Engineer

### **EDUCATION**

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

### **EXPERIENCE**

2019 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Junior Environmental Engineer

2018
Health Canada FNIHB
Proposal and Final Design Review
Student Engineer

### **SELECT LIST OF PROJECTS**

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

### Mark S. D'Arcy, P. Eng.



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