

**Geotechnical
Engineering**

**Environmental
Engineering**

Hydrogeology

**Geological
Engineering**

Materials Testing

Building Science

**Archaeological
Services**

patersongroup

Phase I-Environmental Site Assessment

147 Langstaff Drive
Ottawa, Ontario

Prepared For

Inverness Homes

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

July 5, 2019

Report: PE4666-1

TABLE OF CONTENTS

EXECUTIVE SUMMARY	ii
1.0 INTRODUCTION	1
2.0 PHASE I PROPERTY INFORMATION.....	2
3.0 SCOPE OF INVESTIGATION	3
4.0 RECORDS REVIEW	4
4.1 General.....	4
4.2 Environmental Source Information	5
4.3 Physical Setting Sources	9
5.0 INTERVIEWS	11
6.0 SITE RECONNAISSANCE	11
6.1 General Requirements.....	11
6.2 Specific Observations at Phase I Property	11
7.0 REVIEW AND EVALUATION OF INFORMATION	13
7.1 Land Use History	13
7.2 Conceptual Site Model.....	13
8.0 CONCLUSIONS	15
9.0 STATEMENT OF LIMITATIONS	16
10.0 REFERENCES	17

List of Figures

Figure 1 - Key Plan
Figure 2 - Topographic Map
Drawing PE4666-1 - Site Plan
Drawing PE4666-2 - Surrounding Land Use Plan

List of Appendices

Appendix 1 Aerial Photographs
 Site Photograph

Appendix 2 MECP Freedom of Information
 TSSA Correspondence
 HLUI Response
 MECP Well Records

Appendix 3 Qualifications of Assessors

EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Inverness Homes to conduct a Phase I-Environmental Site Assessment (ESA) for 147 Langstaff Drive, 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 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 has always been vacant and undeveloped land. Based on historical records, neighbouring land use has consisted of residential, institutional, recreational and commercial.

Five (5) historical potentially contaminating activities (PCAs) were identified, including railway tracks and two (2) former landfills. Based on the downgradient orientation, these PCAs, with the exception of a former landfill, are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The former landfill located immediately northwest of the subject site has generated an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The subject site is vacant land situated in a mixed-use area. Neighbouring land use in the Phase I Study Area consists of residential, commercial retail, institutional and recreational. No other PCAs were identified with the current use of the Phase I Property or lands within the Study Area.

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

1.0 INTRODUCTION

At the request of Inverness Homes, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 147 Langstaff Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Ms. Alison Stirling of the Stirling Group, acting on behalf of Inverness Homes. Ms. Stirling can be reached by telephone at (613) 299-5654.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of 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 also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information 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:	147 Langstaff Drive, Ottawa, Ontario
Legal Description:	Part of Blocks A, B, C of Lots 6 to 13, north of John Street, Lots 15 to 21, south of John Street, of Plan 148, Part of Lot 18, Concession 2 (formerly Huntley) and Lots 52 and 53, Part of Lots 54 and 55 of Registered Plan 4R24903, in the City of Ottawa.
Location:	The site is located on the southwest side of Langstaff Drive, 185 m northwest of the Langstaff Drive and Donald B. Munro intersection, in the Village of Carp ; Township of West Carleton, (now City of Ottawa), Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	04533-1980
Latitude and Longitude:	45° 20' 43.96" N, 75° 02' 54.26" W
Site Description:	
Configuration:	Irregular
Area:	7.3 hectares (approximately)
Zoning:	V3B – Village Residential Third Density Zone
Current Use:	The subject site is currently vacant land.
Services:	The subject site and adjacent lands are situated in a municipally serviced area that relies on potable water wells.

3.0 SCOPE OF INVESTIGATION

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

- ☐ Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- ☐ Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- ☐ Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- ☐ Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 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

According to the aerial photographs, the subject property has never been developed.

National Archives

Fire Insurance Plans (FIPs) are not available for the subject site or adjacent properties.

The Ottawa city directories were reviewed for the subject site. However, due to the amalgamation and the location of the subject property, the Ottawa City Directories were only available from 2001 to 2011. The subject site has never been listed in the city directories. Three (3) off-site potentially contaminating activities (PCAs) were identified in the directories which included a former construction company at 3725 Carp Road, a former automotive garage at 421 Donald B. Munro Drive and a commercial cleaner/dry cleaner at 449 Donald B. Munro Drive. These PCAs with respective distances are presented in Table 1.

TABLE 1: Potentially Contaminating Activities City Directories Review Summary			
Address	Listing	Years Listed	Approximate Distance / Orientation from Site
Carp Road			
3725	Contracting Company (2 USTs)	2001-2011	130 m S
Donald B. Munro Drive			
421	Automotive Repair Garage	2001-2011	44 m S
449	Star Fashion / drycleaner	2001-2011	120 m SW

Based on their down-gradient location with respect to the subject site, these off-site PCAs are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The location of these PCAs are shown in Drawing PE4666-2 – Surrounding Land Use Plan.

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, city directories and previous engineering reports.

Plan of Survey

A plan of survey was not available for review at the time of this assessment.

Previous Engineering Reports

Paterson has conducted several environmental investigations within the area. Based on a review of our files, one potentially contaminating activity (PCA) was identified immediately west of the subject site; a former waste disposal site, Wc-05, which is discussed in more detail in the City of Ottawa Landfill Document section of this report.

Paterson conducted a geotechnical investigation for the subject site in January 2009 (Report No. PG1773-REP.01). Based on the geotechnical report, the subsurface profile in the general area consisted of topsoil overlying a thin silty sand layer followed by a stiff silty clay deposit, overlying silty sand.

Groundwater levels were measured at the time of the investigation and the groundwater flow direction was inferred to be in a southerly direction with a hydraulic gradient of approximately 0.018 m/m.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on June 28, 2019. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I study area.

PCB Inventory

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

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on June 28, 2019. The search did not reveal any areas of natural significance within the Phase I study area.

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

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

MECP Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the properties. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

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. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. Based on the MECP's response, no records were located regarding the Phase I Property or the 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.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry 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 subject property or properties within the Phase I ESA 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.

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 were 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. Two (2) former domestic waste disposal sites, Wc-05 and Wc-10 which operated pre-1940s were identified within the study area. Waste site Wc-10 (Carp Plaza site) is located approximately 175 m downgradient of the subject site at 461 Donald B. Munroe Drive. Based on the location of this potentially contaminating activity (PCA), this former waste dump does not represent an area of potential environmental concern to the Phase I Property.

Waste site Wc-05 (Fairgrounds Dump), was located on the adjacent property at 3774 Carp Road. According to the document, the footprint of the Fairgrounds Dump landfill covered approximately 2,910 square meters with a waste depth of just shy of 1 meter deep. The landfill was reportedly used for domestic waste. No other information was provided in the City of Ottawa Landfill document. Based on the location of this PCA, this former landfill is considered to represent an area of potential environmental concern (APEC) on the Phase I Property.

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 HLUI search results did not identify any activities associated with the Phase I Property, however, twenty-three (23) activities associated with properties within the Phase I Study Area were identified. Nine (9) activities are identified as PCAs and are summarized in Table 2.

TABLE 2: Potentially Contaminating Activities Historical Land Use Inventory Search Results			
Address	Activity Listed	Years Listed	Approximate Distance / Orientation from Site
Carp Road			
3725	Contracting Company (2 USTs)	1990-2011	127 m SW
3715	Impacts Prints (Commercial Printing)	2001	125 m SW
3739	Gas Station	1930-1970	80 m SW
3727	RJ Nebbs Transportation	2005	129 m SW
Donald B. Munro Drive			
Not listed	Canadian National Railway coal shed	1934	>80 m S
421	Automotive Repair Garage	2001-2011	44 m S
449	Star Fashion / drycleaner	1994-2003	120 m SW
461	Motor Vehicle Repair Shop	1930-1970	135 m SW

Based on the separation distance and downgradient location with respect to the subject land, the above noted PCAs are not considered to represent APECs on the Phase I Property. A copy of the HLUI search response 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:

1946	The subject site appears to be vacant agricultural fields. Carp Road and Donald B. Munro Drive can be seen in their current configuration. Langstaff Drive is not present at this time. Surrounding lands along Donald B. Munro Drive and Carp Road are developed and occupied. Adjacent lands to the north/northeast are also vacant and undeveloped at this time.
1964	The subject site and surrounding lands appear unchanged from the previous photograph.
1976	No significant changes are apparent on the subject site or surrounding properties.
1983	No significant changes are apparent to the subject site or neighbouring lands.
1999	No significant changes are apparent to the subject site. Langstaff Drive is present at this time. A residential development is present across Langstaff Drive with recreational facilities to the north.
2010	No significant changes are apparent to the subject site. Additional developments are present further to the north.
2017	The subject site and surrounding lands appear unchanged from the previous photograph.

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

Topographic Maps

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

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 southern and northern portions of the property consists of interbedded limestone and shale of the Verulam Formation and intrusive rocks of Syenite, respectively. The site is located in an area where both nearshore and offshore marine sediments are present (sand, reworked glaciofluvial, clay and silt). The drift thickness in the area ranges from 50 to 100 m.

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.

Water Bodies and Areas of Natural Significance

No bodies of water or areas of natural significance were identified on the subject site or within the study area.

Water Well Records

A well record search was conducted on July 2, 2019 for all drilled wells within 250 m of the subject site. The search returned forty-three (43) records, of which, forty-one (41) were domestic wells, one (1) monitoring well, and one (1) abandoned well. All of the well records were identified 20 m or more away from the subject site. Based on the well records, all potable water wells were drilled to depths ranging from 15.8 to 76.8 m below the existing ground surface.

One monitoring well was identified at a residential address (422 Donald B. Munro Drive), approximately 20 m southwest of the subject site. Based on the downgradient location, this property is not considered to pose a risk to the subject site.

Based on the well records, the stratigraphy in the general area consists of sandy clay y, overlying limestone bedrock. No other information was provided in the well records. A copy of the well records has been included in Appendix 2.

5.0 INTERVIEWS

No one knowledge about the subject site was available for interviewing at the time of this assessment.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on July 2, 2019. Weather conditions were sunny with a temperature of approximately 26 °C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Site Features

The subject property is vacant land covered in grass and low brush with some trees along the property boundaries and a ravine passing through the central part of the site running in a north to south direction. A gravel laneway provides access to the site, fronting Langstaff Drive. Site drainage consists primarily of infiltration.

The site topography is at the grade with Langstaff Drive and slopes down in a southerly direction. The regional topography slopes down in a south-westerly direction towards the Carp River.

No underground utilities were noted on-site. No drains or private sewage systems were observed on the subject property at the time of the site visit. 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 stained gravel/ground surface, stressed vegetation or unidentified substances were observed on-site at this time. Stagnant/ponded water was noted in the central portion of the site. No unusual odour or sheen was noted at the time of the visit.

Buildings and Structures

There are no buildings or structures present on the Phase I Property.

Neighbouring Properties

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

- ☐ Northeast - Langstaff Drive, followed by residential dwellings;
- ☐ South/southwest - Residential dwellings and commercial retailers, followed by Carp Road;
- ☐ Southeast - Residential dwellings, followed by Donald B. Munro Drive;
- ☐ Northwest/west - Fairgrounds, followed by recreational facilities.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I Property.

Current land use in the Phase I Study Area is illustrated on Drawing PE4666-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property has never been developed.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Table 2 of O.Reg. 153/04, a historical PCA (Item 58) was identified within the Phase I ESA Study Area: a former landfill located immediately northwest of the Phase I Property at 3774 Carp Road. Based on its location with respect to the subject site, this PCA generates an area of potential environmental concern (APEC) on the Phase I Property.

Other PCAs that did not result in APECs are depicted in green on Drawing PE4666-2 –Surrounding Land Use Plan, in the Figures section of this report.

Contaminants of Potential Concern

Contaminants of Potential Concern (CPCs) include benzene, toluene ethylbenzene, and xylenes (BTEXs), petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs) in soil and/or groundwater.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, the overburden thickness in the area of the subject site is estimated to be on the order of 50 to 100 m. The overburden consists of both nearshore and offshore marine sediments (sand, reworked glaciofluvial, clay and silt). Bedrock in the southern and northern portions of the property consists of interbedded limestone and shale of the Verulam Formation and intrusive rocks of Syenite, respectively.

Groundwater flow is interpreted to be in a southwesterly direction towards the Carp River.

Contaminants of Potential Concern

As per Section 7.1 of this report, CPCs include BTEX, PHCs, PAHs and VOCs in soil and/or groundwater.

Existing Buildings and Structures

There are no buildings or structures on the Phase I Property.

Water Bodies and Areas of Natural Significance

No bodies of water or areas of natural significance were identified on the subject site or within the study area.

Drinking Water Wells

Based on the MECP well records search, no potable water wells were identified on the Phase I Property.

Groundwater Monitoring Wells

One groundwater monitoring well was identified 20 m southwest of the subject site. Based on the downgradient location of the monitoring well, it is not considered to pose a risk to the Phase I Property.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of a combination of residential, institutional, commercial (retailers and restaurants) and recreational. Railway tracks are present 100 m south of the subject land.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, a former landfill operating on the Carp fairgrounds was identified to result in an APEC on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there is one APEC 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 Inverness Homes to conduct a Phase I-Environmental Site Assessment (ESA) for 147 Langstaff Drive, 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 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 has always been vacant and undeveloped land. Based on historical records, neighbouring land use has consisted of residential, institutional, recreational and commercial.

Five (5) historical potentially contaminating activities (PCAs) were identified, including railway tracks and two (2) former landfills. Based on the downgradient orientation, these PCAs, with the exception of a former landfill, are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The former landfill located immediately northwest of the subject site has generated an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The subject site is vacant land situated in a mixed-use area. Neighbouring land use in the Phase I Study Area consists of residential, commercial retail, institutional and recreational. No other PCAs were identified with the current use of the Phase I Property or lands within the Study Area.

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

9.0 STATEMENT OF LIMITATIONS

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

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

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

Paterson Group Inc.



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



Mark S. D'Arcy, P.Eng., QP_{ESA}

Report Distribution:

- ☐ Inverness Homes
- ☐ 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 PE4666-1 – SITE PLAN

DRAWING PE4666-2 – SURROUNDING LAND USE PLAN

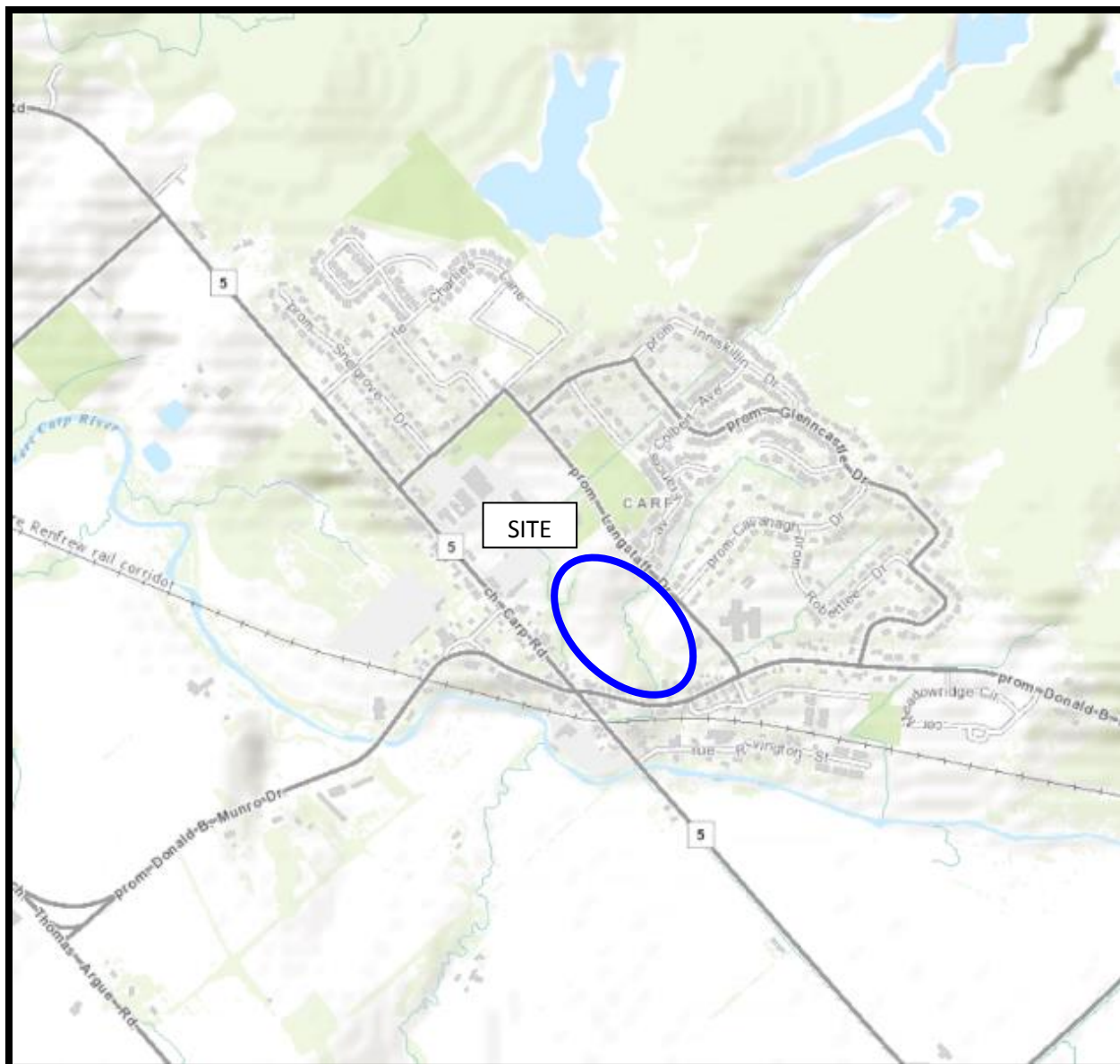


FIGURE 1
KEY PLAN

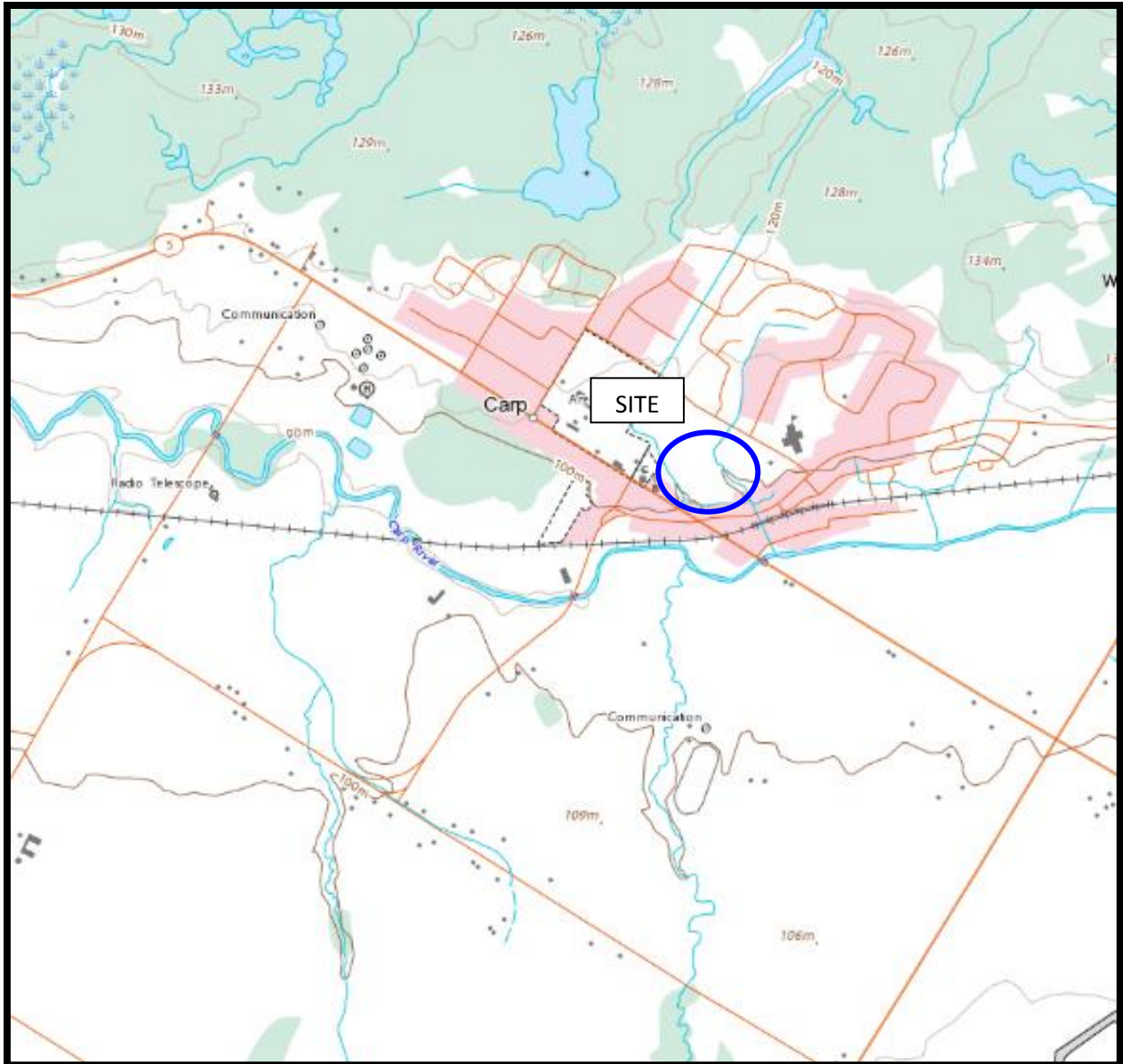
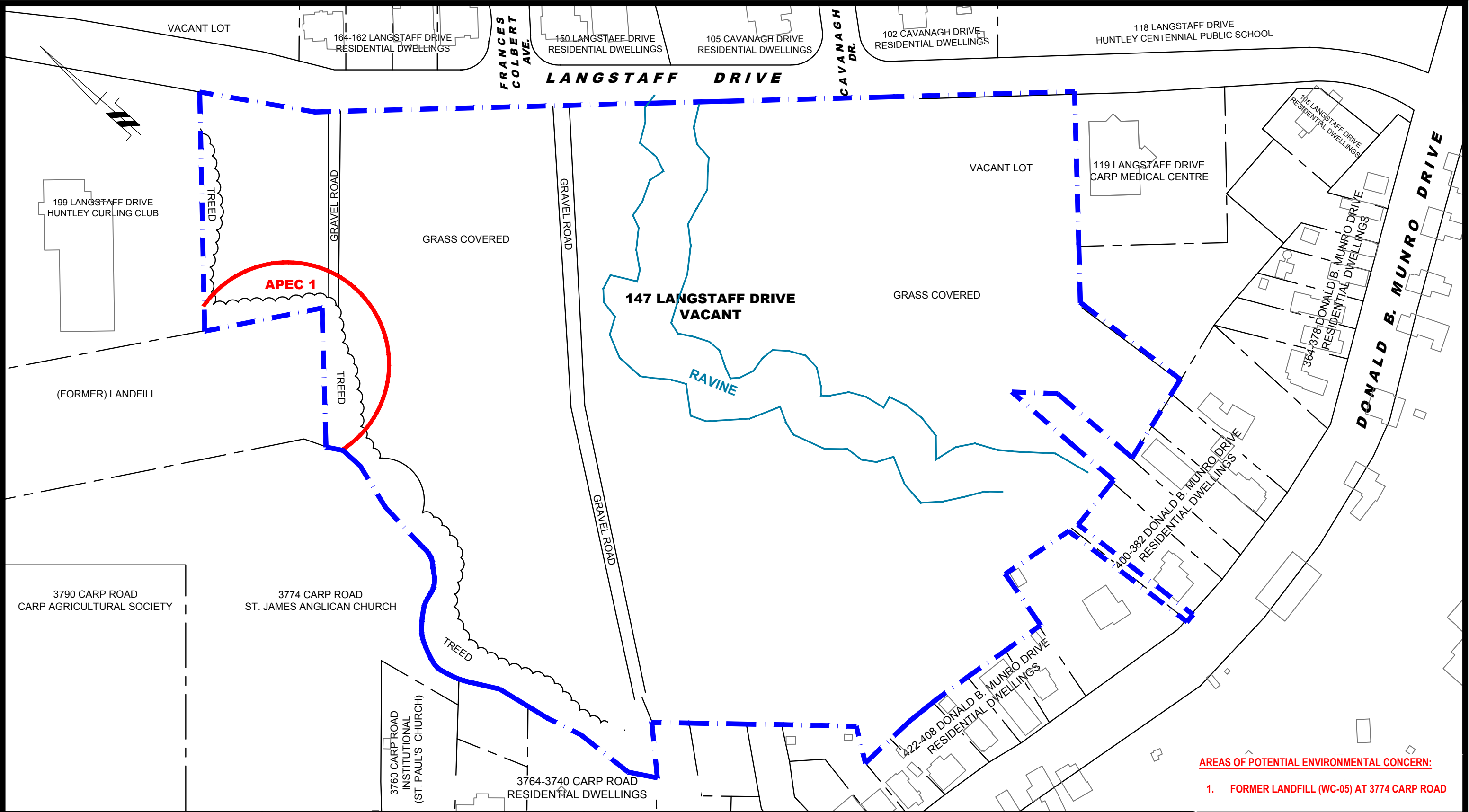


FIGURE 2
TOPOGRAPHIC MAP



AREAS OF POTENTIAL ENVIRONMENTAL CONCERN:

- 1. FORMER LANDFILL (WC-05) AT 3774 CARP ROAD

patersongroup
consulting engineers

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

0			
NO.	REVISIONS	DATE	INITIAL

OTTAWA,
Title:

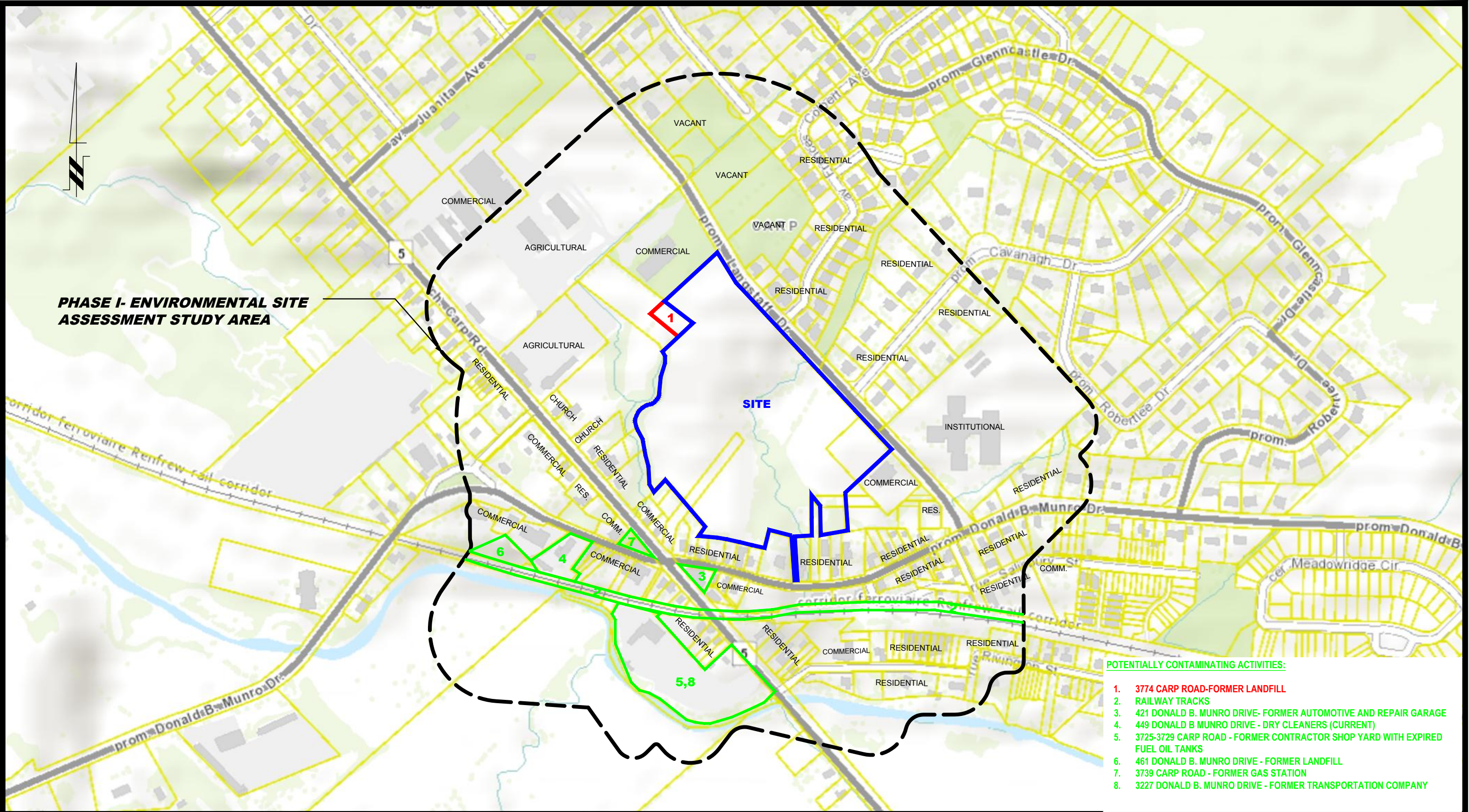
INVERNESS HOMES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
147 LANGSTAFF DRIVE

ONTARIO

SITE PLAN

Scale:	1:1500
Drawn by:	YA
Checked by:	MW
Approved by:	MSD

Date:	07/2019
Report No.:	PE4666-1
Dwg. No.:	PE4666-1
Revision No.:	



- POTENTIALLY CONTAMINATING ACTIVITIES:
- 1. 3774 CARP ROAD-FORMER LANDFILL
 - 2. RAILWAY TRACKS
 - 3. 421 DONALD B. MUNRO DRIVE- FORMER AUTOMOTIVE AND REPAIR GARAGE
 - 4. 449 DONALD B MUNRO DRIVE - DRY CLEANERS (CURRENT)
 - 5. 3725-3729 CARP ROAD - FORMER CONTRACTOR SHOP YARD WITH EXPIRED FUEL OIL TANKS
 - 6. 461 DONALD B. MUNRO DRIVE - FORMER LANDFILL
 - 7. 3739 CARP ROAD - FORMER GAS STATION
 - 8. 3227 DONALD B. MUNRO DRIVE - FORMER TRANSPORTATION COMPANY

patersongroup
consulting engineers

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

0			
NO.	REVISIONS	DATE	INITIAL

INVERNESS HOMES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT

147 LANGSTAFF DRIVE

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

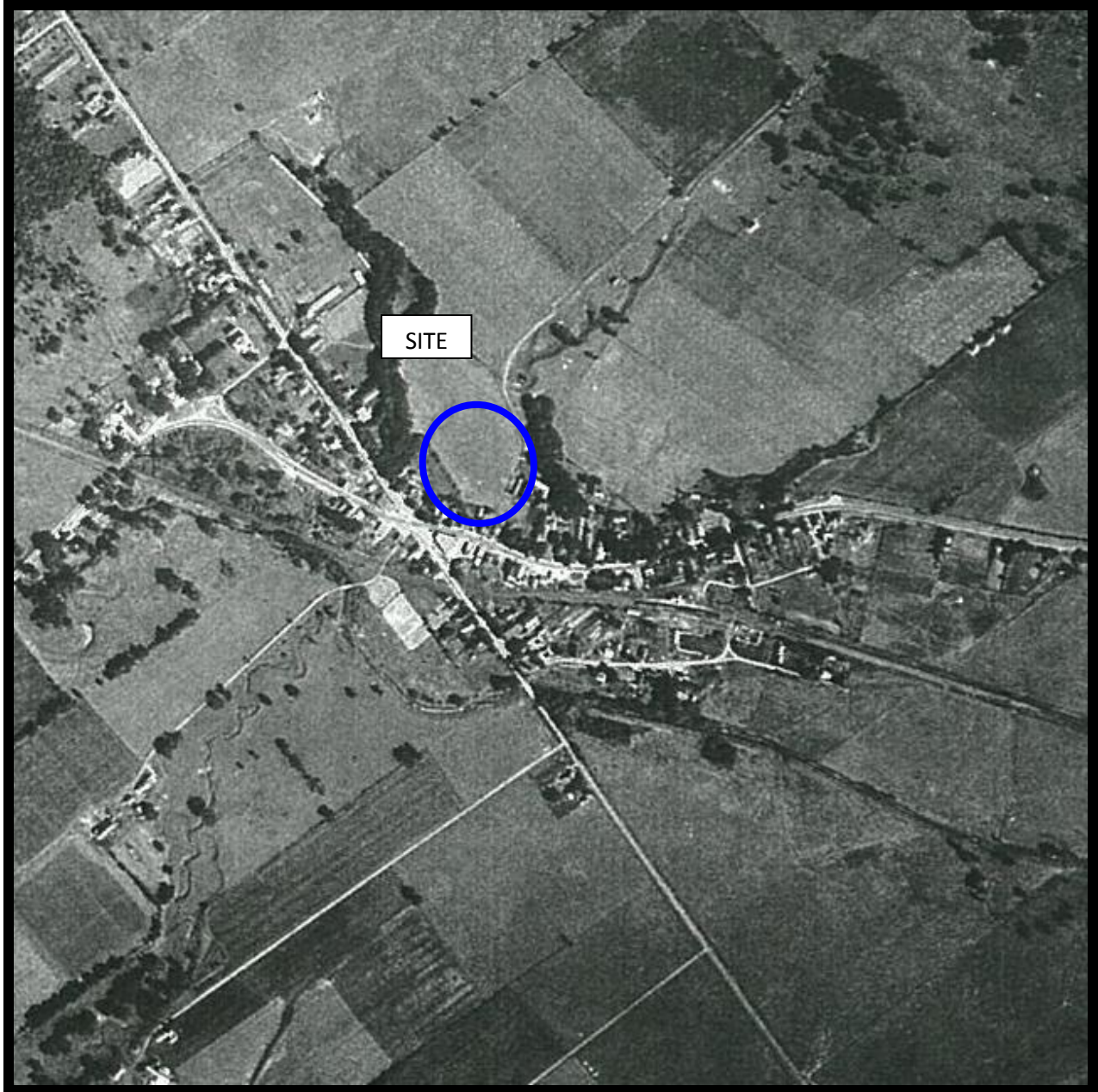
Scale:	1:5000	Date:	07/2019
Drawn by:	YA	Report No.:	PE4666-1
Checked by:	MW	Dwg. No.:	PE4666-2
Approved by:	MSD	Revision No.:	

p:\autocad\drawings\environmental\pe4666\pe4666-2-surrounding land use plan.dwg

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



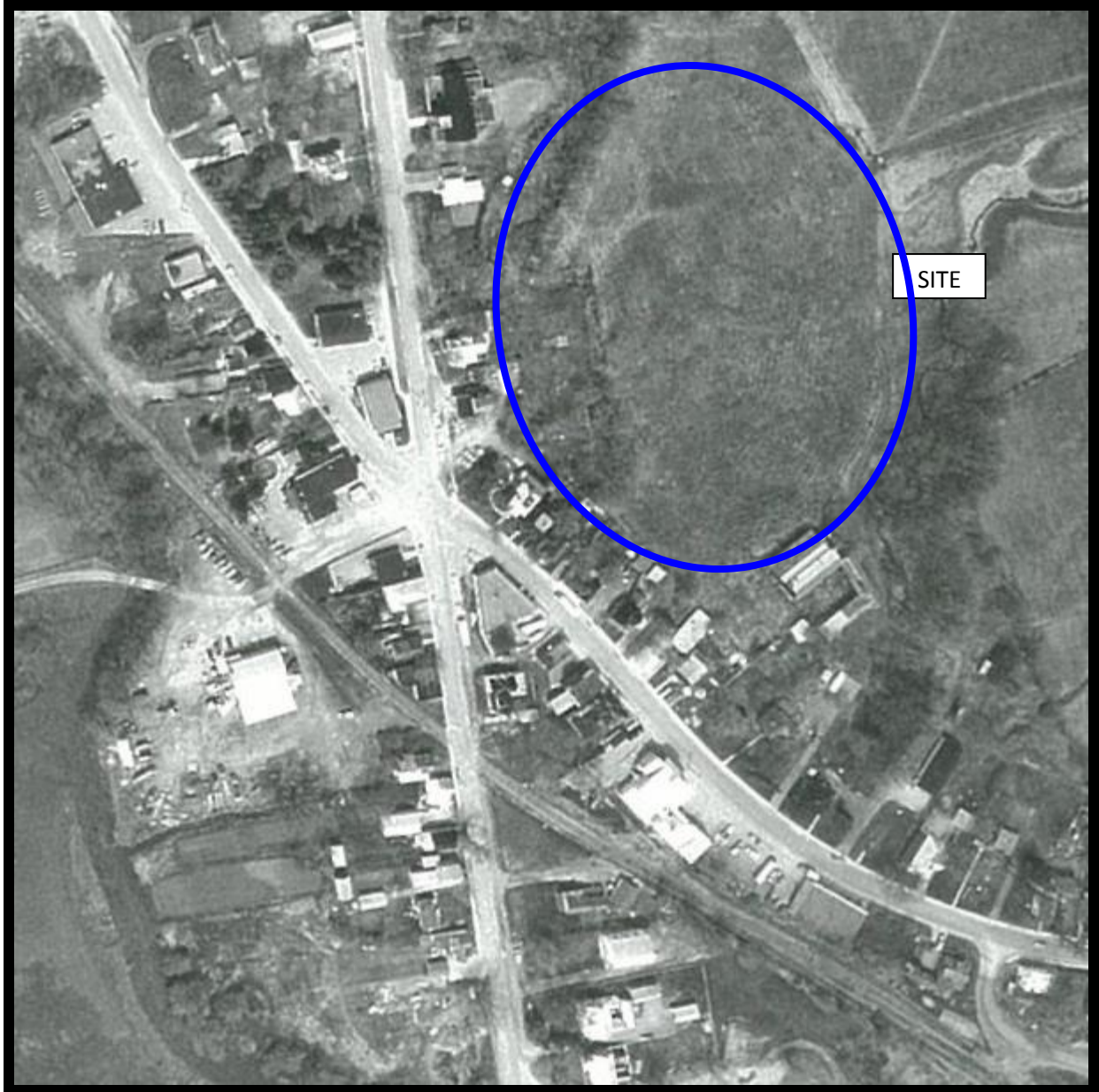
AERIAL PHOTOGRAPH
1946



AERIAL PHOTOGRAPH
1964



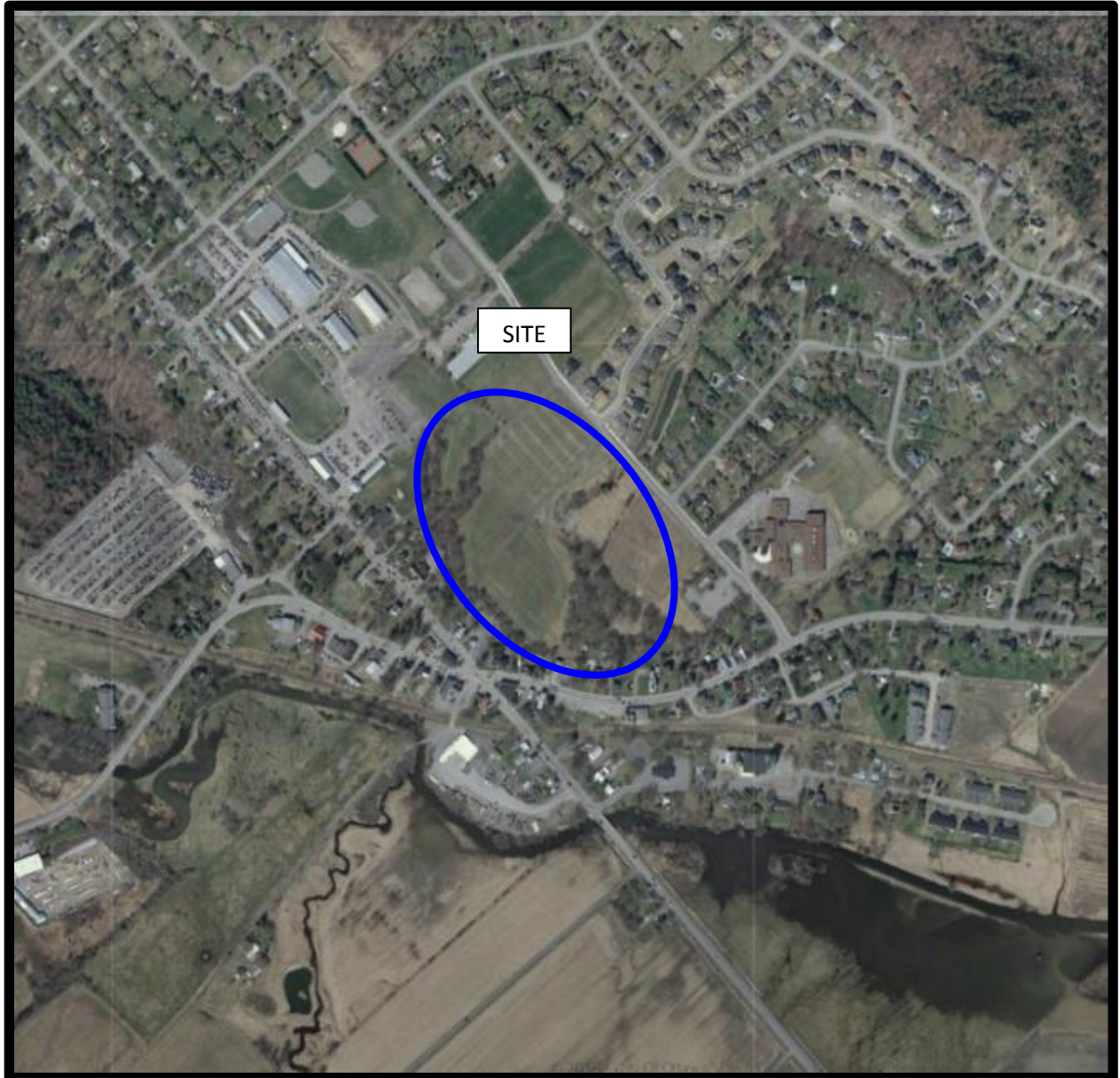
AERIAL PHOTOGRAPH
1976



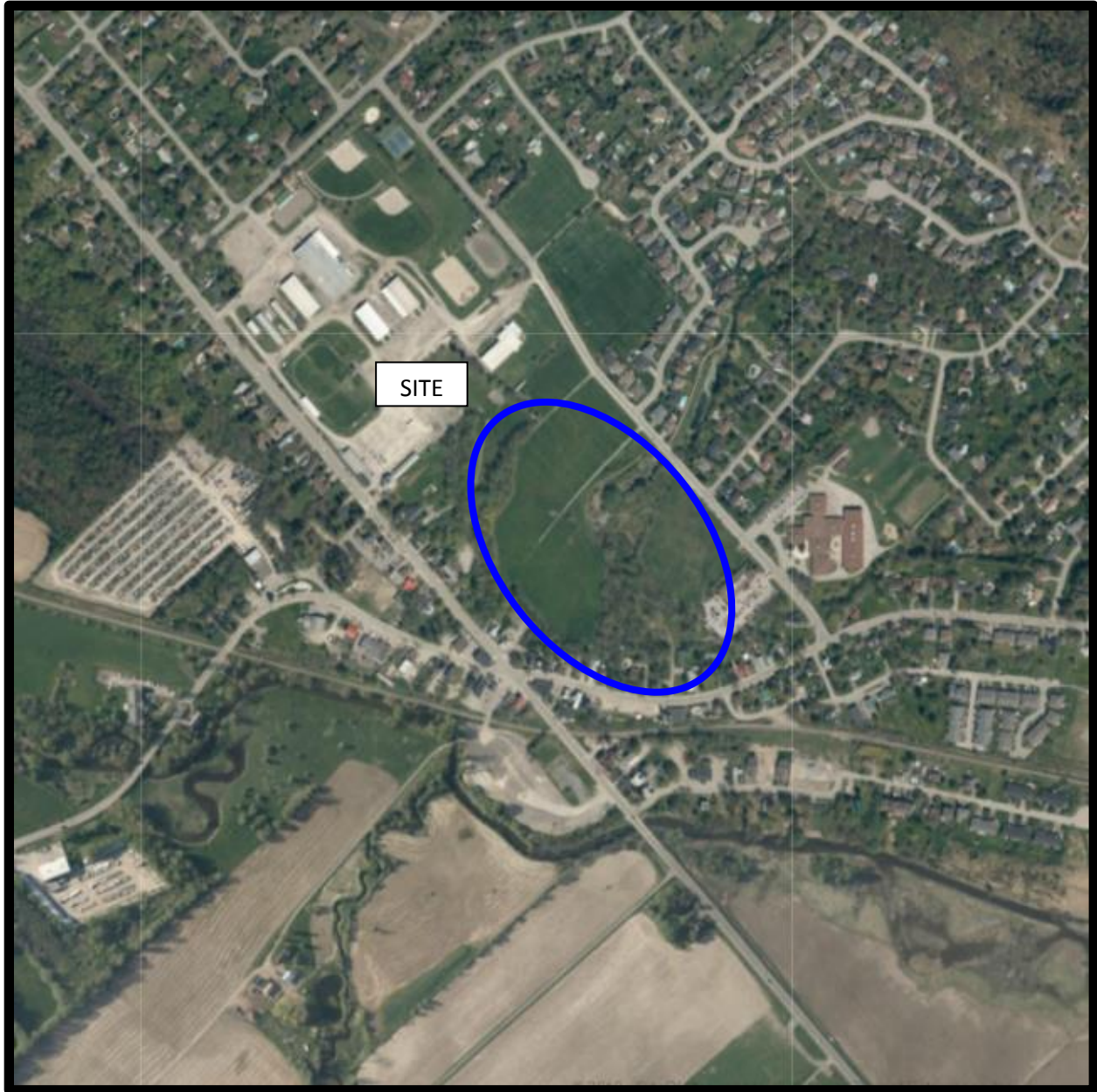
AERIAL PHOTOGRAPH
1983



AERIAL PHOTOGRAPH
1999



AERIAL PHOTOGRAPH
2010



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4666

147 Langstaff Drive– Ottawa, ON

July 2, 2019



Photograph 1: South east view of the subject site, taken from Langstaff Drive.



Photograph 2: Southcentral view of the subject site, taken from Langstaff Drive.

Site Photographs

PE4666

147 Langstaff Drive– Ottawa, ON

July 2, 2019



Photograph 3: Southern view of the subject site, looking south.



Photograph 4: Southern view of the subject site.

Site Photographs

PE4666

147 Langstaff Drive– Ottawa, ON

July 2, 2019



Photograph 5: Northwestern view of the subject site.



Photograph 6: Northern view of the subject site, looking towards Langstaff Drive.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment,
Conservation and Parks

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

Access and Privacy Office

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

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

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



July 5, 2019

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

Dear Mandy Witteman:

RE: **Freedom of Information and Protection of Privacy Act Request**
Our File # A-2019-04512, Your Reference PE4666

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 147 Langstaff Drive, Carp.

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 Dany Briollais at 416-314-4075 or dany.briollais@ontario.ca.

Yours truly,

Janet Dadufalza
Manager, Access and Privacy

Mandy Witteman

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

Hello,

Thank you for your inquiry.

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

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

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

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: publicinformationsservices@tssa.org

www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: July 2, 2019 12:24 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Search Records Request (PE4666)

Good Afternoon,

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

Langstaff Drive: 147, 119, 118

Carp Rd: 3806, 3790, 3709

Cavanagh Dr: 105, 102

Donald B. Munro Dr: 405

Thank you.

Cheers,

Mandy Witteman

patersongroup
solution oriented engineering
over 60 years servicing our clients

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

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

patersongroup

Consulting Engineers

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

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

www.patersongroup.ca

July 4, 2019
File: PE4666-HLUI

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

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
147 Langstaff Drive, Ottawa ON**

Dear Sir or Madame,

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

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

Name of Company/Property Owner:

Inverness Homes

Name of Representative

Alison Stirling

Authorization of Representative

Alison Stirling

Date

July 4/19

UTM 18 418980 E
9 5021470 N
Elev. 9 0320
Basin 25



The Water-well Drillers Act, 1954
Department of Mines

15 No. 042
GROUND WATER BRANCH
OCT 29 1957

Water-Well Record

County or Territorial District Carleton Place Township, Village, Town or City Huntley
[Redacted] in Village, Town or City Indian St
Address Carpent
Date completed June 17 1957
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>4"</u>	Static level <u>40'</u>
Length(s) <u>75'</u>	Pumping rate <u>500 G.P.H.</u>
Type of screen <u>Homemade</u>	Pumping level <u>40'</u>
Length of screen <u>4'</u>	Duration of test <u>1/2 H.R.</u>

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth (s) at which water (s) found

No. of feet water rises

Kind of water (fresh, salty, or sulphur)

Sand

0

75

75

35

fresh

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

office

Is water clear or cloudy? clear

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

Drilling firm W.M.E. Sparks

Address 413 Edgeworth Ave

Name of Driller W.M.E. Sparks

Address 413 Edgeworth Ave

Licence Number 421

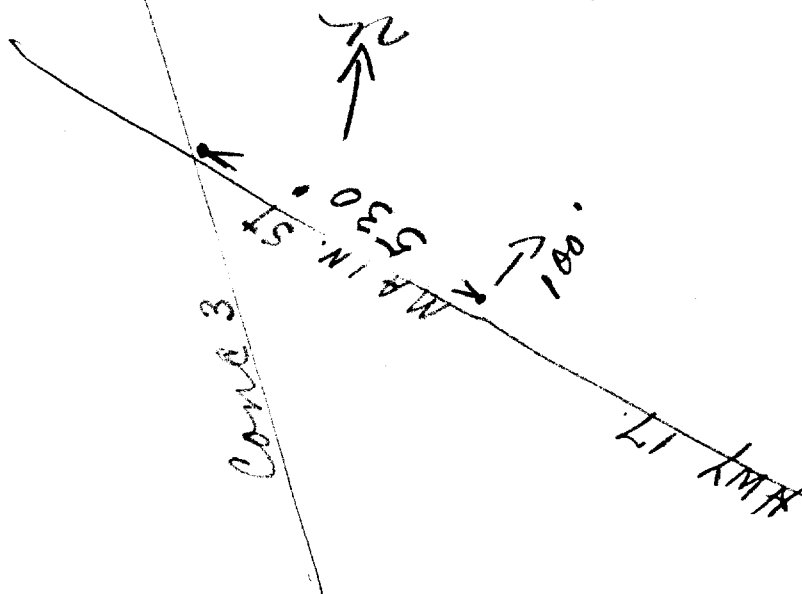
I certify that the foregoing statements of fact are true.

Date Oct 22/57 W.M.E. Sparks

Signature of Licensee

Location of Well

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



UTM 68 Z 419140 E

5 R 5021480 N

Elev. 4 R 0320

Basin 25



ONTARIO

The Water-well Drillers Act, 1954

Department of Mines

RECEIVED

DEC 23 1954

15

No.

3076

GEOLOGICAL BRANCH
DEPARTMENT of MINES

Water-Well Record

County or Territorial District Carleton Township, ~~Village, Town or City~~ Huntley

Village, Town or City Carleton Place

Address Carleton Place

(day) 14

(month)

(year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 3 in

Length(s) 163

Type of screen

Length of screen

Static level 34

Pumping rate 400 Gal per hr

Pumping level 50 fts

Duration of test 3 hrs

Well Log

Water Record

Overburden and Bedrock Record

From
ft.

To
ft.

Depth(s)
at which
water(s)
found

No. of feet
water rises

Kind of water
(fresh, salty,
or sulphur)

Clay

0

43

175

141

Fresh

Sand

43

90

Gravel and boulders

90

163

Gray fine stone

163

175

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

Is water clear or cloudy? Clear

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

Drilling firm J. B. Desjardins

Address 1870 Carleton

Name of Driller J. Desjardins

Address 665 Hillside

Licence Number 395

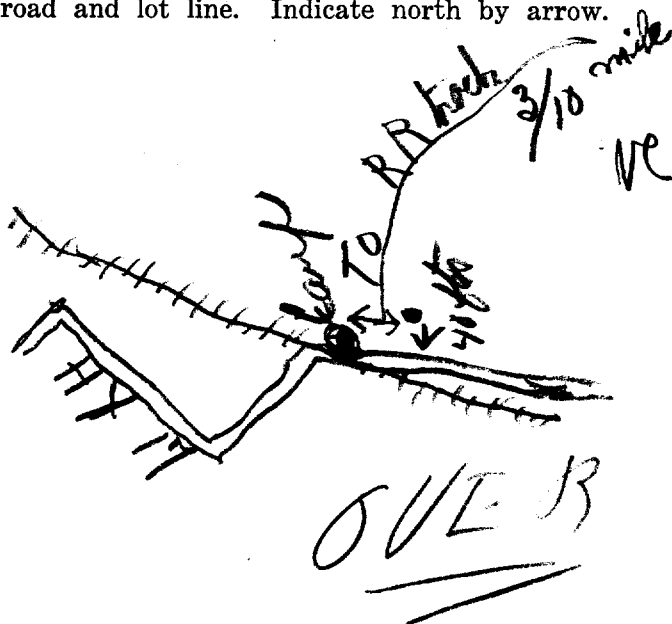
I certify that the foregoing
statements of fact are true.

Date Dec 14/54 J. Desjardins

Signature of Licensee

Location of Well

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



UTM 18 418740

5 R 5021660 N

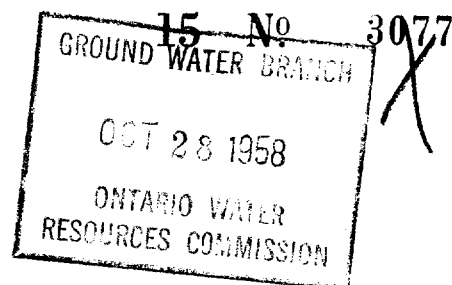
Elev. 4 R 0350

Basin 25 17

LOT 18



The Water-well Drillers Act, 1954
Department of Mines



Water-Well Record

Ship, Village, Town or City Carp Ont. HUNTLEY
in Village, Town or City)
Address RR2, Kinburn

Date completed May II, 1958
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>5"</u>	Static level <u>60'</u>
Length(s) <u>75 ft.</u>	Pumping rate <u>300 gph</u>
Type of screen <u>none</u>	Pumping level <u>80'</u>
Length of screen	Duration of test <u>1 hr.</u>

Well Log

Water Record

Overburden and Bedrock Record

From
ft.

To
ft.

Depth (s)
at which
water (s)
found

No. of feet
water rises

Kind of water
(fresh, salty,
or sulphur)

sand

0

66

limestone

66

143

143

83

fresh

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

Is water clear or cloudy? clear

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

Drilling firm F.A. McLean & Son

Address Ottawa

Name of Driller W. Kavanagh

Address

Licence Number

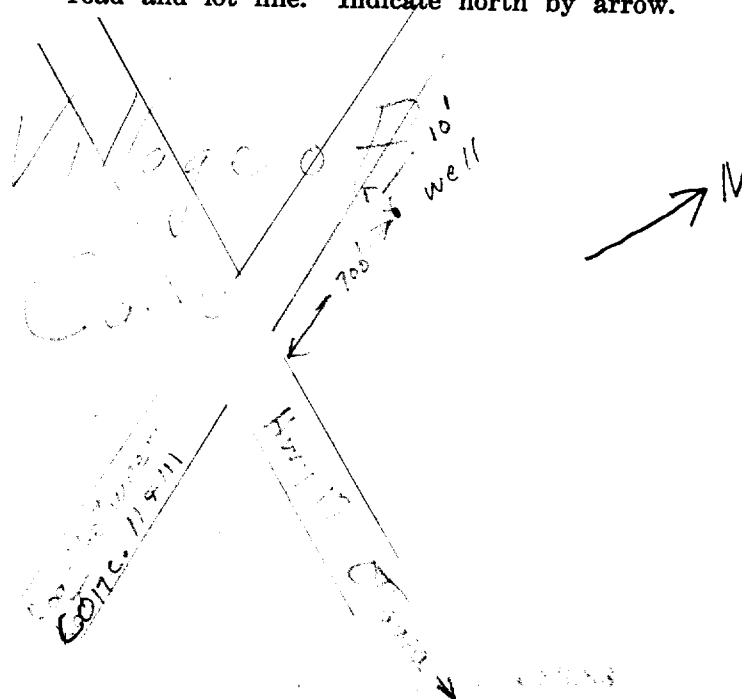
I certify that the foregoing
statements of fact are true.

Date June 9,

Signature of Licensee

Location of Well

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



Elev. 4^R CON 70 3 6 0

Basin 2 5 8



The Water-well Drillers Act, 1954
Department of Mines

15 No 307
GROUND WATER BRANCH
AUG - 5 1958
ONTARIO WATER
RESOURCES COMMISSION

Water-Well Record

County or Territorial District Carleton Township, Village, Town or City Huntley
 [Redacted] in Village, Town or City) Carp Ont
 Address Carp Ont
 (day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter (s) <u>4"</u>	Static level <u>25'</u>
Length (s) <u>50'</u>	Pumping rate <u>500 GPH</u>
Type of screen <u>Homemade</u>	Pumping level <u>25'</u>
Length of screen <u>4'</u>	Duration of test <u>1/2 hr</u>

Well Log

Water Record

[illegible]

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

house

Is water clear or cloudy? clear

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

island

Drilling firm W. M. E. Sparks

Address 413 Edgeworth Ave

Ottawa 3,

Name of Driller W M E Sparks

Address

.....

Licence Number 421

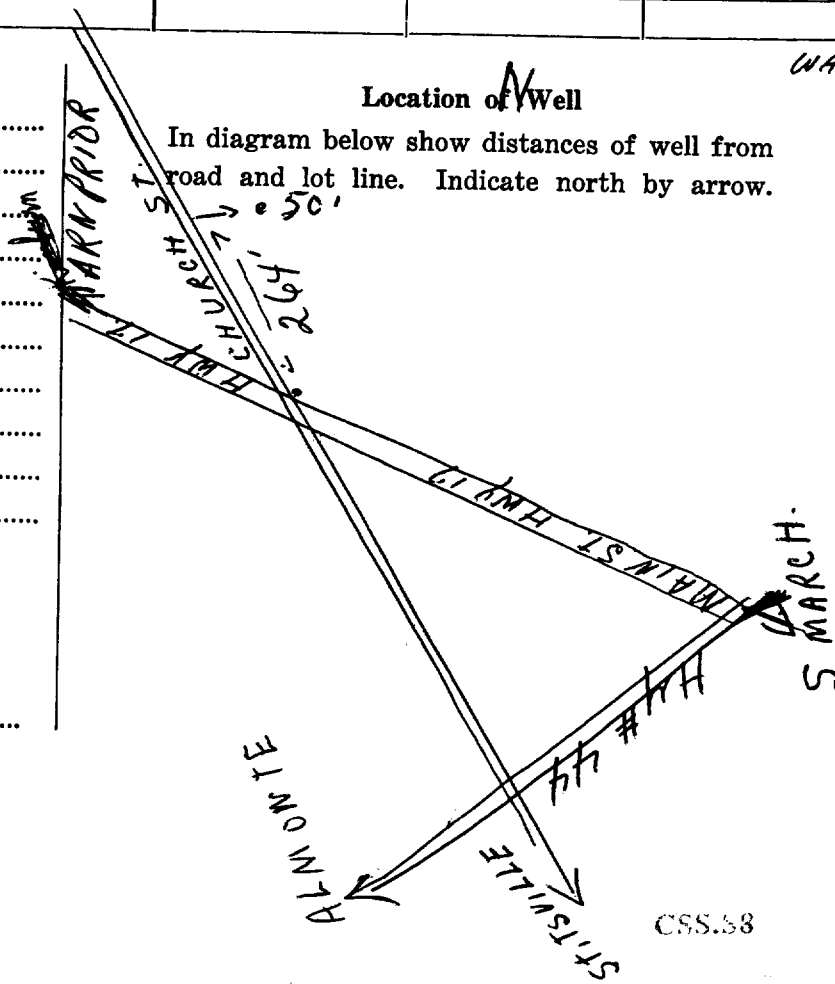
I certify that the foregoing
statements of fact are true.

$y_1 = \frac{1}{x}, y_2 = x^2, y_3 = x^3$

Date.. May 21 .. W M Sparks ..

Location of Well

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



UTM 18 418720 E

5 R 5021680 N

Elev. 4 R 0350

Basin 25



ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

15 No 3078
GROUND WATER BRANCH
SEP 9 1958
ONTARIO WATER
RESOURCES COMMISSION

Water-Well Record

Ship, Village, Town or City

Ship, Village, Town or City

Address

Date completed 26/5/58
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 3"
Length(s) 101
Type of screen
Length of screen NONE

Static level 49
Pumping rate 180
Pumping level 95
Duration of test 2 hrs

Well Log

Water Record

Overburden and Bedrock Record

From
ft.

To
ft.

Depth(s)
at which
water(s)
found

No. of feet
water rises

Kind of water
(fresh, salty,
or sulphur)

Sand
Fluvial

0
101

101
252

248

199

fresh

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

Is water clear or cloudy?

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

Drilling firm

Address

Name of Driller

Address

Licence Number

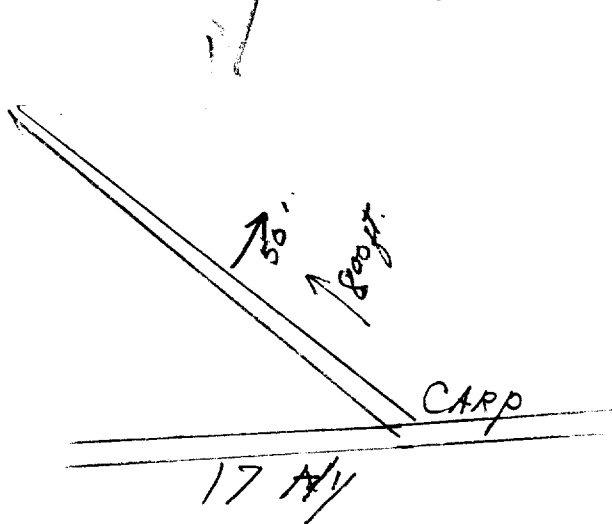
I certify that the foregoing
statements of fact are true.

Date

Signature of Licensee

Location of Well

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



UTM 18 418960 E

5R 51021420 N

Elev. 14 0310

Basin 25



15 No

3080

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District

Carleton

Township, Village, Town or City

Kantley

Con.

2

Lot

18

Date completed

19

(day

Oct

month

59

year)

Address

Cap

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
Total length of casing 108'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Static level 17'
Test-pumping rate 10 G.P.M.
Pumping level 25'
Duration of test pumping 3 hours
Water clear or cloudy at end of test clear
Recommended pumping rate 8 G.P.M.
with pumping level of 25'

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
Loam	0	6'			
Blue clay	6	60'			
Quick sand	60'	102'			
Gravel	102	108	108'	91'	fresh

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

House

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

Drilling Firm

D. O. Mac Hardy
Kimburn

Address

Licence Number

270

Name of Driller

Douglas Mac Hardy
Kimburn

Address

Date

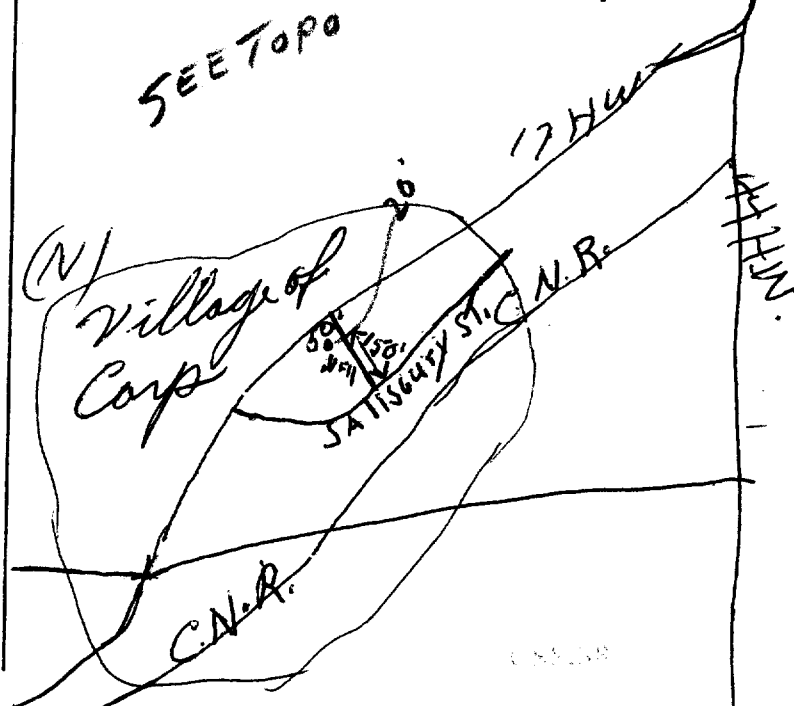
Oct 29 59

Douglas Mac Hardy

(Signature of Licensed Drilling Contractor)

Location of Well

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



Basin 2.5 | | | |

ONTARIO WATER
SOURCES COMMISSION
on Act, 1957

3081

The Ontario Water Resources Commission Act, 1957

Basin 25



GROUND WATER BRANCH 15 N. 82

APR 6 1960

ONTARIO WATER
RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District.

Township, Village, Town or City

Con

Date completed

dress

Casing and Screen Record

Pumping Test

Inside diameter of casing

Total length of casing.

Type of screen.

Length of screen

Depth to top of screen.

Diameter of finished hole

Static level

Test-pumping rate.

Pumping level

Duration of test pumping

Water clear or cloudy at end of test

Recommended pumping rate

with pumping level of

Well Log

Water Record

[illegible]

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

Flour mill

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

Drilling Firm

Address

Licence Number**Name of Driller**

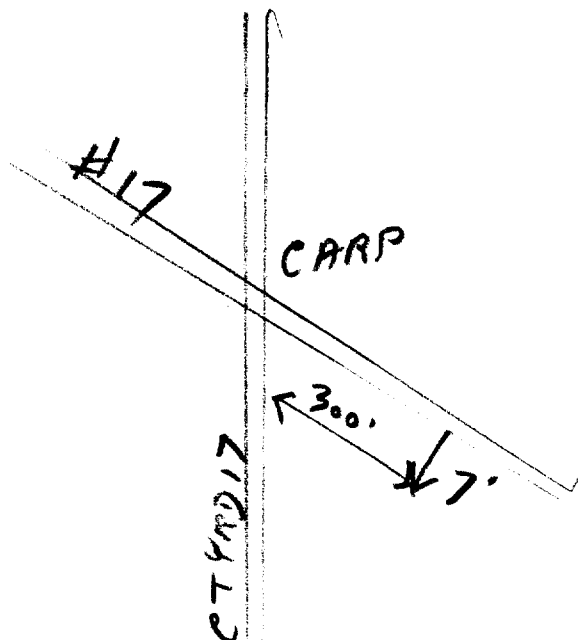
Address

Date _____

(Signature of Licensed Drilling Contractor)

Location of Well

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



CHS-69

UTM 18 419140 E5 5021480 NElev. 4 0320Basin 25 CarletonCon. ILLot 18Township, Village, Town or City HuntleyDate completed 9 12 1961
(day month year)Address Carp, Ontario

GROUND WATER BRANCH

15 No.
FEB 20 1962ONTARIO WATER
RESOURCES COMMISSION3089
X

The Ontario Water Resources Commission Act

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing 6 3/16
 Total length of casing 64'
 Type of screen Nil
 Length of screen Nil
 Depth to top of screen Nil
 Diameter of finished hole 6 3/16

Pumping Test

Static level 5'
 Test-pumping rate 500 GPM
 Pumping level 40'
 Duration of test pumping 1 Hr.
 Water clear or cloudy at end of test Clear
 Recommended pumping rate 500 GPM
 with pump setting of 40' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0	30	64'	Fresh
Clay & Sand	30	40		
Sand & Gravel	40	60		
Gravel	60	64		

For what purpose(s) is the water to be used? HouseIs well on upland, in valley, or on hillside? HillsideDrilling or Boring Firm J. E. Dufresne & Co. Ltd.1014 Maitland Ave.Address Ottawa, Ont.Licence Number 194Name of Driller or Borer W. RoyAddress Hull, Que.Date Dec. 9th. 1961

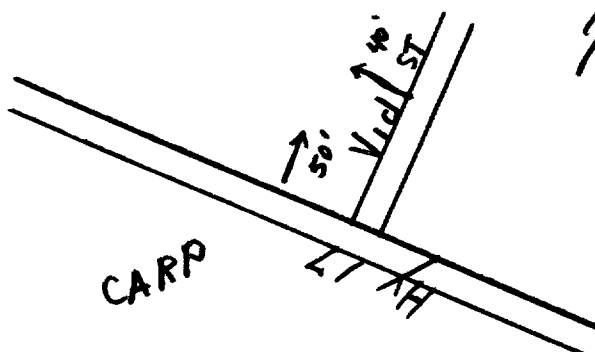
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

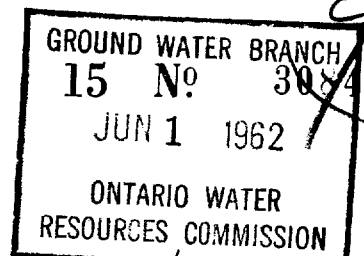
OWRC COPY

Location of Well

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

ONLY STREET EAST,
IN VILLAGE

C55.56

UTM 18 Z 418850 E

The Ontario Water Resources Commission Act

WATER WELL RECORD

Elev. 4 R 0360Basin 25 County or District CarletonCon. 2 Lot 18Township, Village, Town or City HUNTLEYDate completed 11 (day) 4 month 1962 year)Address Carp, Ontario

Casing and Screen Record

Inside diameter of casing 6 3/16
 Total length of casing 64'
 Type of screen N
 Length of screen 0
 Depth to top of screen N
 Depth to top of screen E
 Diameter of finished hole 6 3/16

Pumping Test

Static level 13'
 Test-pumping rate 500 gal P.H. G.P.M.
 Pumping level 50'
 Duration of test pumping 1 hr.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 5 G.P.M.
 with pump setting of 60' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

Clay
 Yellow Sand
 Gravel

From
ft.To
ft.Depth(s) at
which water(s)
foundKind of water
(fresh, salty,
sulphur)

0

20

64

fresh

20

60

60

64

For what purpose(s) is the water to be used? HouseIs well on upland, in valley, or on hillside? HillsideDrilling or Boring Firm J.B. Dufresne & Co. Ltd.
1014 Maitland Ave.Address Ottawa, Ontario.Licence Number 194Name of Driller or Borer R. LanielAddress 18 Trudeau St. Hull, QueDate April 12, 1962

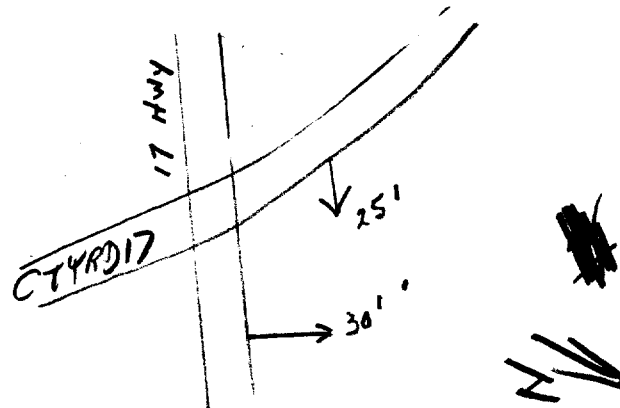
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



C88.58

UTM 18 Z 4 19 180 E

GROUND WATER BRANCH

JUN 1 1962 N^o 3085ONTARIO WATER
RESOURCES COMMISSION5 R 5021520 NElev. 4 R 10320

WATER WELL RECORD

Basin 25 Carl

County or District

Township, Village, Town or City

Con. 2 Lot 18Date completed 7

(day)

month

year

Address

Carp Ont

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 91
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 24
 Test-pumping rate 10 G.P.M.
 Pumping level 24
 Duration of test pumping 2 days
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 70 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>sand</u>	<u>0</u>	<u>10</u>	<u>91</u>	<u>fresh</u>
<u>clay</u>	<u>10</u>	<u>69</u>		
<u>sand</u> <u>medium</u>	<u>69</u>	<u>91</u>		

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

household

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

upland

Drilling or Boring Firm

Capital Water SupplyAddress 1243 Heron RdOttawa

Licence Number

482

Name of Driller or Borer

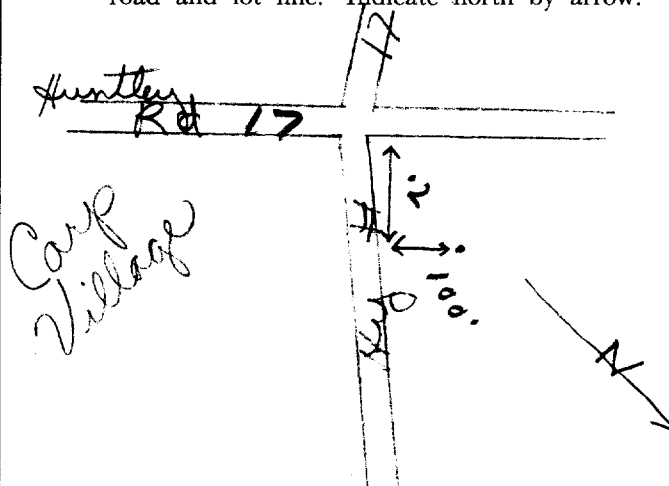
M. Lavanagh

Address

Date 7th May 1962Halter Lavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 Z 418970 E5 R 5021360 N

The Ontario Water Resources Commission Act

Elev. 0211 0310Basin 218County or District PakenhamCon. 2Lot 18Township, Village, Town or City WentworthDate completed 20

(day)

month

year

Address Carp

GROUND WATER BRANCH

15 No 3086

FEB 26 1963

ONTARIO WATER
RESOURCES COMMISSION

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing 6 1/4"
 Total length of casing 85'
 Type of screen #12
 Length of screen 4'
 Depth to top of screen 81'
 Diameter of finished hole 6 1/4"

Pumping Test

Static level 7.6"
 Test-pumping rate 19 G.P.M.
 Pumping level 10 ft.
 Duration of test pumping 2 hrs.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 20 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>coarse sand</u>	<u>0</u>	<u>20</u>	<u>85</u>	<u>fresh</u>
<u>fine "</u>	<u>20</u>	<u>85</u>		

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

domestic

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

valley

Drilling or Boring Firm

A. Stanton

Address

Pakenham

Licence Number

643

Name of Driller or Borer

A. Stanton

Address

Pakenham

Date

Dec 20/62

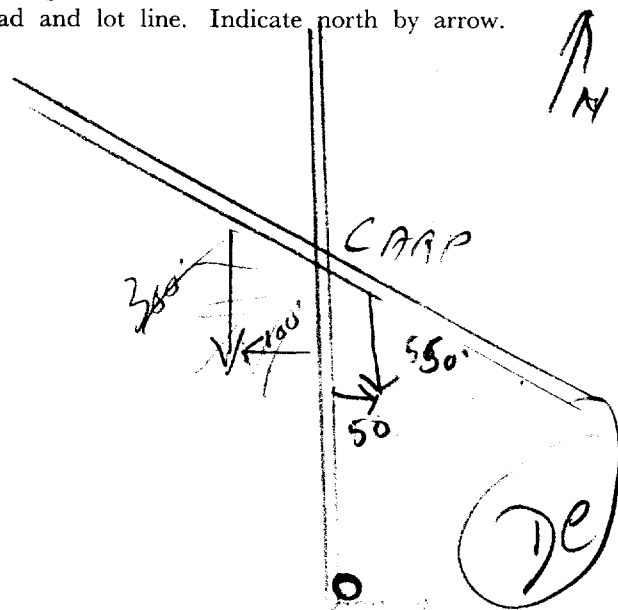
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



UTM 18Z 418820E

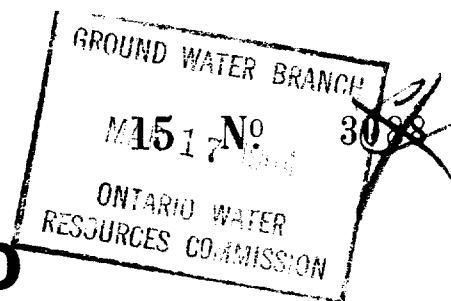
5R 5021549N



The Ontario Water Resources Commission Act

Elev. 4R 0320

WATER WELL RECORD

Basin 25
County or District Carleton

Township, Village, Town or City Huntley

Con. 2 Lot 146 Main Street Date completed 25 NOV 63
(day month year)

Address Carp, Ontario.

Casing and Screen Record

Inside diameter of casing 6 3/16"
 Total length of casing ~~XXX~~ 106
 Type of screen -
 Length of screen -
 Depth to top of screen -
 Diameter of finished hole 6"

Pumping Test

Static level 14 feet
 Test-pumping rate 17 G.P.M.
 Pumping level 82'
 Duration of test pumping 1 hour
 Water clear or cloudy at end of test clear
 Recommended pumping rate 17 G.P.M.
 with pump setting of 70 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0	40	104	fresh
Sand	40	75		
Gravel	75	106		

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

House MANSE.

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

Drilling or Boring Firm

J.B. Dufresne & Co. Ltd.,

Address 1014 Maitland Ave.,

Ottawa 5, Ont.

Licence Number 1032

Name of Driller or Borer W. Roy

Address 79 St. Jean Baptiste, Deschenes, Quebec.

Date 28 November 1963

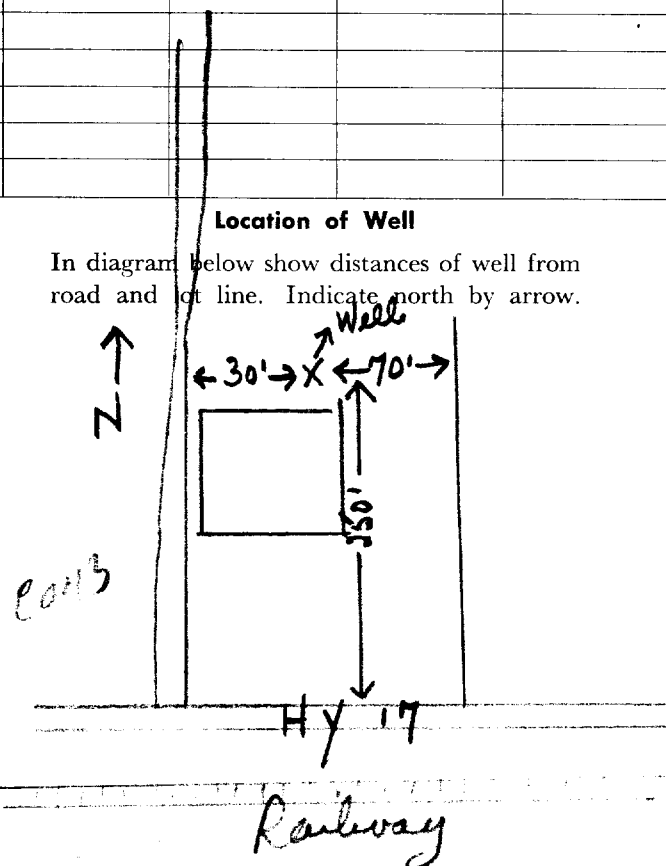
(Signature of Licensed Drilling or Boring Contractor)

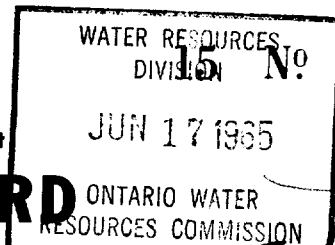
Form 7 15M-60-4138

OWRC COPY

Location of Well

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



UTM 18 Z 419100 E

3089

Elev. 5 R 5021420 N

The Ontario Water Resources Commission Act

Basin 25 County or District Carleton

WATER WELL RECORD

ONTARIO WATER RESOURCES COMMISSION

Con. 2 Lot 18Township, Village, Town or City CarpDate completed 17 (day)March (month) 1965 (year)Address Carp

Casing and Screen Record

Inside diameter of casing 6 1/4"
 Total length of casing 157'
 Type of screen "
 Length of screen "
 Depth to top of screen "
 Diameter of finished hole 6"

Pumping Test

Static level 20'
 Test-pumping rate 10 G.P.M.
 Pumping level 70'
 Duration of test pumping 2 hrs.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 70 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

Loam
clay Blue
fine sand
grey limestone

0 10
10 60
60 157
157 184

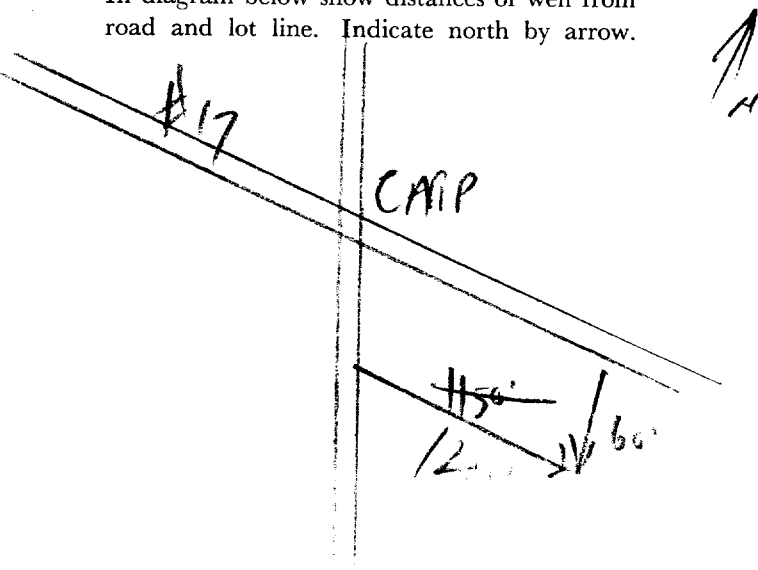
184fresh

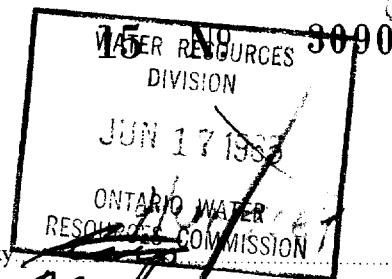
For what purpose(s) is the water to be used?

NEW houseIs well on upland, in valley, or on hillside? uplandDrilling or Boring Firm A. StantonAddress 104 KenhamLicence Number 1691Name of Driller or Borer sameAddress sameDate March 17/65Quint Stanton
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 418670 EUTM 5 5021740 N

The Ontario Water Resources Commission Act

Elev. 4 0320

WATER WELL RECORD

Basin 25 CarletonCounty or District 2 Lot 18

Township, Village, Town or City

Date completed 25 May 1965
(day month year)Address Carp

Casing and Screen Record

Inside diameter of casing 6 1/4"
 Total length of casing 69'
 Type of screen ✓
 Length of screen ✓
 Depth to top of screen ✓
 Diameter of finished hole 6 1/4"

Pumping Test

Static level 18'
 Test-pumping rate 12 G.P.M.
 Pumping level 26'
 Duration of test pumping 2 hrs.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 45 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

Loam
fine sand
coarse sand

From
ft.To
ft.Depth(s) at
which water(s)
foundKind of water
(fresh, salty,
sulphur)

0
30
65

30
65
69

69fresh

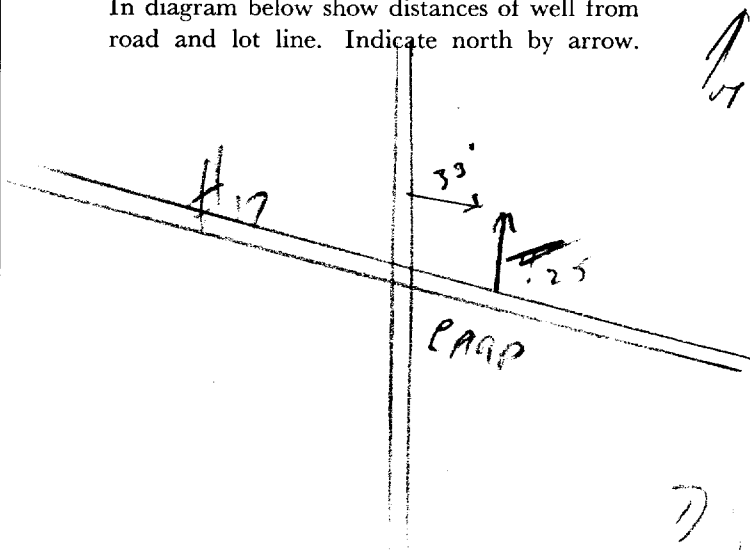
For what purpose(s) is the water to be used?

domestic HALLIs well on upland, in valley, or on hillside? uplandDrilling or Boring Firm A. StantonAddress PakenhamLicence Number 1691Name of Driller or Borer A. StantonAddress PakenhamDate May 25/65

Austin Stanton
 (Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 A 4 1 8 9 9 0 E



15 No 3091

1965

5 R 5 0 2 1 3 8 0 N

The Ontario Water Resources Commission Act

Elev. 4 R 0 3 1 0

WATER WELL RECORD

Basin 2 5
County or District Carleton

Township, Village, Town or City Huntley

Con. 2

Lot 28 Main St. 18

Date completed 19 Oct. 1965

(day month year)

Address Carp, Ont.

28 Main St

Casing and Screen Record

Inside diameter of casing 6-3/16"
Total length of casing 66'
Type of screen x
Length of screen x
Depth to top of screen x
Diameter of finished hole 6-3/16"

Pumping Test

Static level 21 GPM
Test-pumping rate 600 hr. GPM
Pumping level 40
Duration of test pumping 1/2 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 600 hr. GPM
with pump setting of 60 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0	20	66	fresh
sand	20	55		
gravel sand	55	64		
gravel	64	66		

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

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

Drilling or Boring Firm J.B. Dufresne & Co. Ltd

1014 Mainland Ave.

Address Ottawa, Ont.

Licence Number 1307

Name of Driller or Borer W. Roy

Address

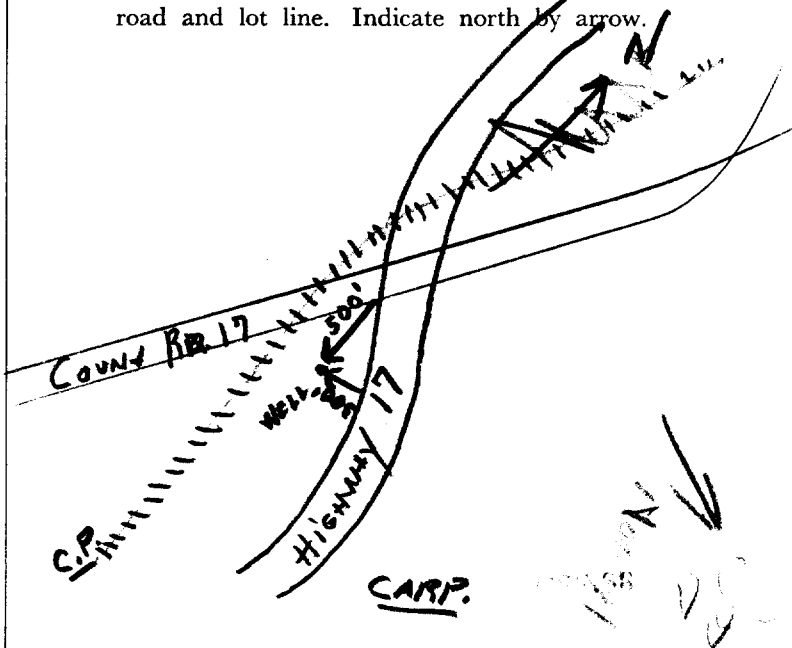
Date October 20th 1965

(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

Location of Well

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



OWRC COPY

UTM 18 4 19 14 0 E



WATER RESOURCES
DIVISION 15 No 3092
NOV 30 1965

5 R 5 0 2 1 4 4 0 N

Elev. 4 R 0 3 2 0

WATER WELL RECORD

Basin 2 5
County or District Carleton

Township, Village, Town or City Huntley

Con. 2 Lot 18

Date completed 21st October 1965
(day month year)

Address Kidd St. Carp, Ontario.

Casing and Screen Record

Inside diameter of casing 6 and 3/16
Total length of casing 95'
Type of screen -
Length of screen -
Depth to top of screen -
Diameter of finished hole 6 and 3/16

Pumping Test

Static level 30
Test-pumping rate 2000 G.P.H. -G.P.M.
Pumping level 21
Duration of test pumping 2 hours
Water clear or cloudy at end of test clear
Recommended pumping rate 2000 G.P.H. 56 G.P.M.
with pump setting of 21 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0	30	95	fresh
sand	30	80		
boulders	80	85		
gravel sand	85	95		

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

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

Drilling or Boring Firm

J.B. Dufresne & Co. Ltd.

Address 1014 Maitland Ave., Ottawa, Ont.

Licence Number 1307

Name of Driller or Borer W. Roy

Address 79 St-Jean Baptiste Deschenes, Que.

Date October 21st, 1965

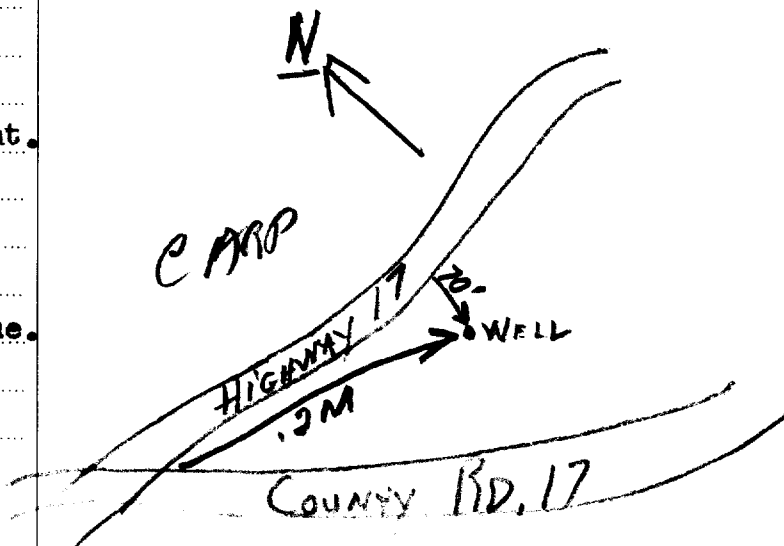
for J.B. Dufresne & Co. Ltd.

(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

Location of Well

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



UTM 18 419160 EWATER RESOURCES
15 DIVISION No. 3098

NOV 8 1966

HUNTER
ONTARIO WATER
RESOURCES COMMISSIONElev. 5 R 5021520 N

The Ontario Water Resources Commission Act

Basin 25 County or District Carleton

WATER WELL RECORD

Con. 32 Lot 17Township, Village, Town or City Carp Date completed 29 (day) Aug (month) 1966 (year)

Casing and Screen Record

Inside diameter of casing 6 1/4"
 Total length of casing 98
 Type of screen ✓
 Length of screen ✓
 Depth to top of screen ✓
 Diameter of finished hole 6 1/4"

Pumping Test

Static level 22
 Test-pumping rate 10 G.P.M.
 Pumping level 28
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 70 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From
ft.To
ft.Depth(s) at
which water(s)
foundKind of water
(fresh, salty,
sulphur)

fine sand
coarse sand

0
95

95
98

98

fresh

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

houseIs well on upland, in valley, or on hillside? uplandDrilling or Boring Firm A. S. StantonAddress PakenhamLicence Number 2180Name of Driller or Borer S. M. C.Address 11Date Aug 29/66

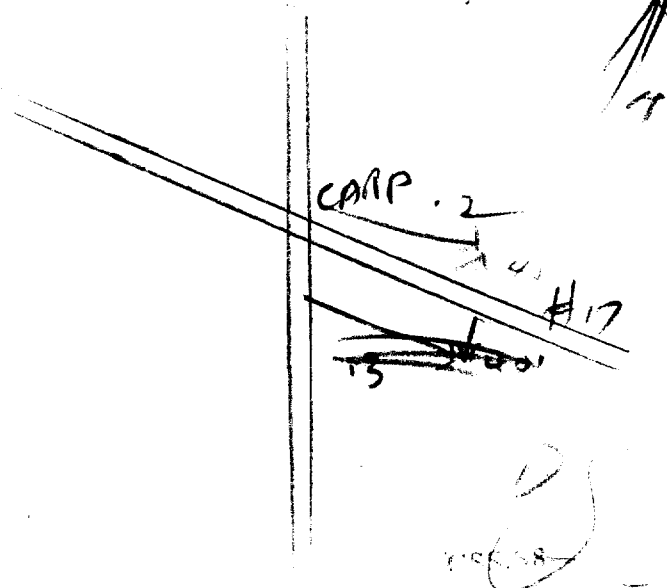
A. S. Stanton
 (Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



UTM 5 18 Z 4 18 24 0 E



15 N° 3094

5 R 5021540 N

The Ontario Water Resources Commission Act

Elév. 4 R 0320

WATER WELL RECORD

Basin 25
County or District Carleton

Township, Village, Town or City Huntley

Con. 2 Lot 18

Date completed 12 Dec 1966
(day month year)

Owner Huntley Public School Area
(print in block letters)

Address Corp.

Casing and Screen Record

Pumping Test

Inside diameter of casing 6 1/4"
Total length of casing 198'
Type of screen ✓
Length of screen ✓
Depth to top of screen ✓
Diameter of finished hole 6"

Static level 43'
Test-pumping rate 15 G.P.M.
Pumping level 43' - 9"
Duration of test pumping 8 hrs.
Water clear or cloudy at end of test clear
Recommended pumping rate 30 G.P.M.
with pump setting of 100 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

Blue clay
fine sand
grey limestone

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	43	213	fresh
43	198		
198	213		

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

school
Is well on upland, in valley, or on hillside? upland.
Drilling or Boring Firm A. Stanton

Address Parkenham

Licence Number 2180

Name of Driller or Borer same

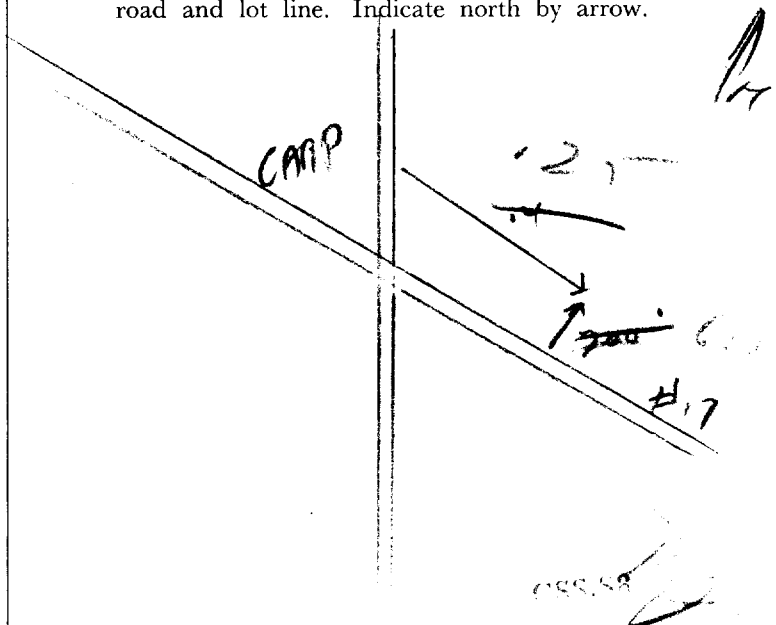
Address

Date Dec 12/66

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 11 8 Z 41 8 6 5 5CODED Ben IILot 18

15 No 3095

MAY 13 1968

Elev. 4 0353

WATER WELL RECORD

Basin 25 District CarletonTownship, Village, Town or City KenilworthCon. 2 TI Lot 18Date completed 26 April 1968
(day month year)Address Carp

Casing and Screen Record

Inside diameter of casing 4 1/2" 5"
Total length of casing 94'
Type of screen ✓
Length of screen ✓
Depth to top of screen ✓
Diameter of finished hole 4 1/2" 5"

Pumping Test

Static level 35'
Test-pumping rate 10 G.P.M.
Pumping level 146'
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 10 G.P.M.
with pump setting of 200 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>Loam</u>	<u>0</u>	<u>6</u>	<u>163</u>	<u>fresh</u>
<u>fine sand</u>	<u>0</u>	<u>75</u>	<u>234</u>	
<u>grey limestone</u>	<u>75</u>	<u>238</u>		

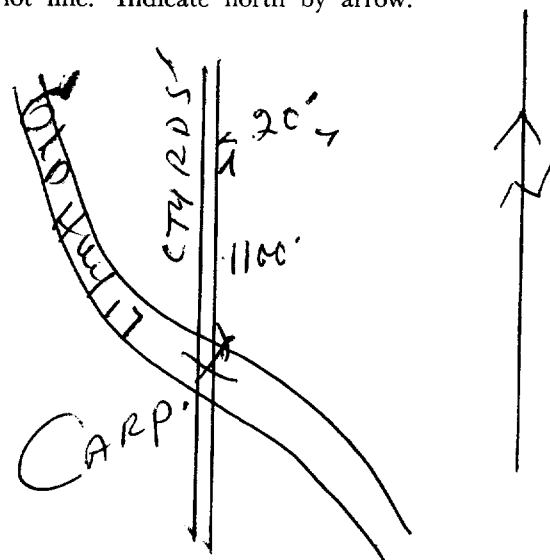
For what purpose(s) is the water to be used?

fair grounds
Is well on upland, in valley, or on hillside? upland.Drilling or Boring Firm A. StantonAddress PakenhamLicence Number 3060Name of Driller or Borer 54MRAddress April 26/68Date April 26/68

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Elev. 4^R 0310
CON 111

Basin 25718



The Water-well Drillers Act, 1954
Department of Mines

GROUND WATER BRANCH

MAR 16 1959

ONTARIO WATER
RESOURCES COMMISSION

Water-Well Record

Date completed 30 Dec. 1958
 (day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s)	5"	Static level	15'
Length(s)	97'	Pumping rate	300 gph
Type of screen	none	Pumping level	40'
Length of screen		Duration of test	2 hrs

Well Log

Water Record

[illegible]

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

Is water clear or cloudy?.....clear

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

Drilling firmF.A. McLean & Son

Address

Name of DrillerB. Foster

Address

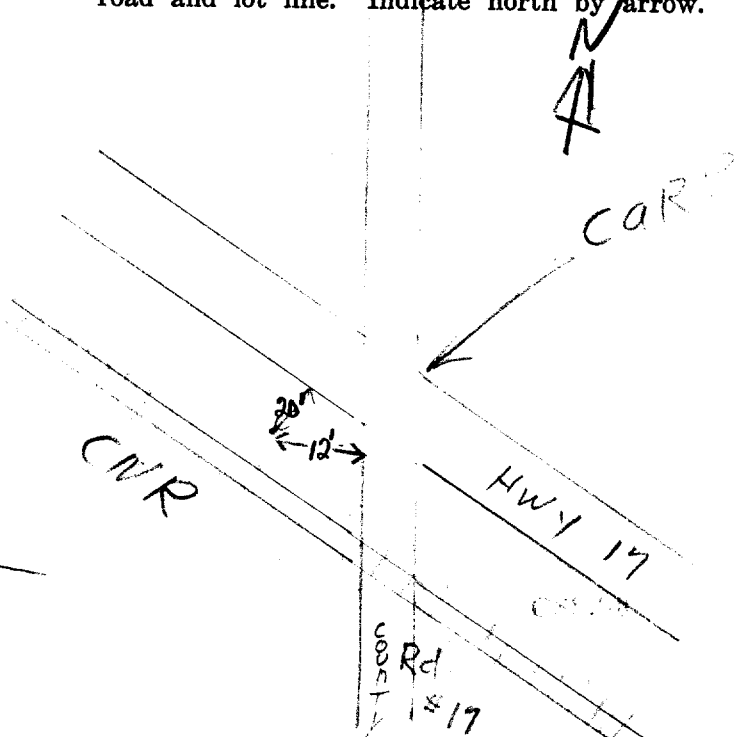
Licence Number.....

I certify that the foregoing
statements of fact are true.

Date Mar. 10 1966
Signature of Licensee [Signature]

Location of Well

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



CSS.53

2W 265
UTM 18 418780 E



WATER RESOURCES

15 No

3149

17 1967

5 R 5021450 N

The Ontario Water Resources Commission Act

Elev. 4 R 0310

WATER WELL RECORD

Basin 25
County or District Carleton

Township, Village, Town or City

Con. 3 Lot 18

Date completed 21 (day)

month

year

ress

Casing and Screen Record

Inside diameter of casing 6 1/4"
Total length of casing 74'
Type of screen ✓
Length of screen ✓
Depth to top of screen ✓
Diameter of finished hole 6 1/4"

Pumping Test

Static level 20'
Test-pumping rate 8 G.P.M.
Pumping level 28'
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Overburden and Bedrock Record

clay
fine sand
fine gravel

From
ft.

To
ft.

Depth(s) at
which water(s)
found

Kind of water
(fresh, salty,
sulphur)

0 20
20 73
73 74

74' fresh

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

house + store

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

valley

Drilling or Boring Firm A. Stanton

Address Patuxham

Licence Number 2180

Name of Driller or Borer SAMP

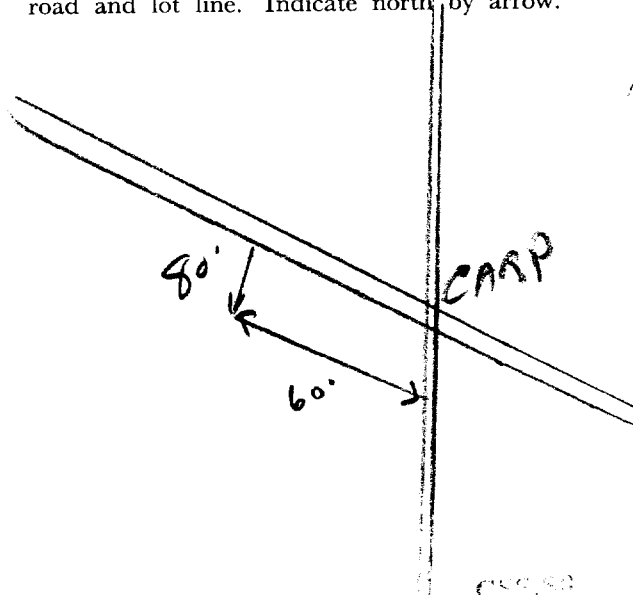
Address

Date Oct 21/66

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 2 4 1 9 0 0 0 E



GROUND WATER BRANCH

15 No 3320

SEP 24 1962

ONTARIO WATER

SUPPLY DIVISION

9 R 5 0 2 1 4 6 0 N

The Ontario Water Resources Commission Act

Elev: 9 R 0 3 2 0

WATER WELL RECORD

Basin 25 Carleton

County or District

Con. 2

Lot 18

Township Village, Town or City ~~Amherst~~ HUNTLEY

Date completed 3rd Sept. 1962

Address Carp Ont.

Casing and Screen Record

Inside diameter of casing 6 1/4"

Total length of casing 75'

Type of screen brass

Length of screen 4 ft.

Depth to top of screen 76'

Diameter of finished hole 6"

Pumping Test

Static level 30

Test-pumping rate 10 G.P.M.

Pumping level 70'

Duration of test pumping 30 min

Water clear or cloudy at end of test clear

Recommended pumping rate 3 G.P.M.

with pump setting of 65' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

clay

quick sand

coarse sand & pebbles

0

40

40

65'

65'

80

60

fresh

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

house

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

Drilling or Boring Firm Mel McLaughlin

Address Ashton Ont

Licence Number 593

Name of Driller or Borer Melville M. Laughlin

Address Ashton Ont

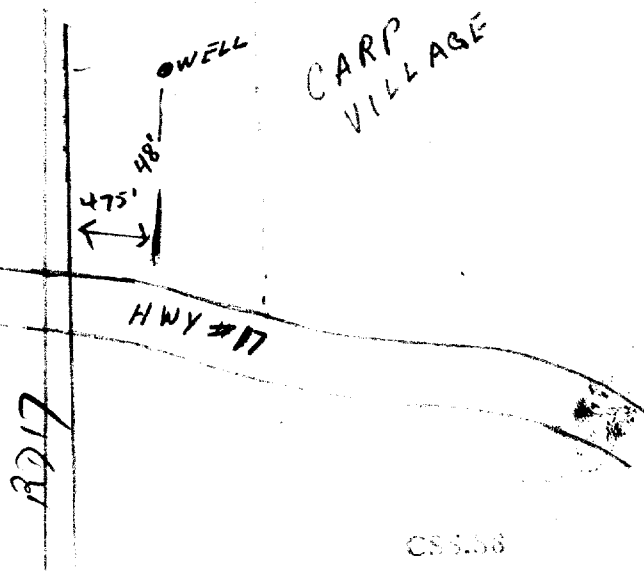
Date Sept 11/62

Melville M. Laughlin

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



WATER WELL RECORD

3, F8a

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1	1
1	2

15 105 30

MUNICIP.

1500 ft

CON

1260

10.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

	10	14	1
CON., BLOCK, TRACT, SURVEY, ETC.			

22	23	24
LOT	25-27	

DATE COMPLETED

DAY 22 MO. 9 YR. 20

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31 0002 02 0098208 0180215

41 WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER	
0167	10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
0180	15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
	20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
	25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
	30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES		MATERIAL		WALL THICKNESS INCHES		DEPTH - FEET	
						FROM	TO
10-11 4 06	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	12	.188	0	98	13-16	0098
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	19				20-23	0180
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	26				27-30	

Z	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
----------	----------------------------------	-------	----------	-------	--------	-------

SCREEN	INCHES		FEET	
	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44	80
			FEET	

61 PLUGGING & SEALING RECORD

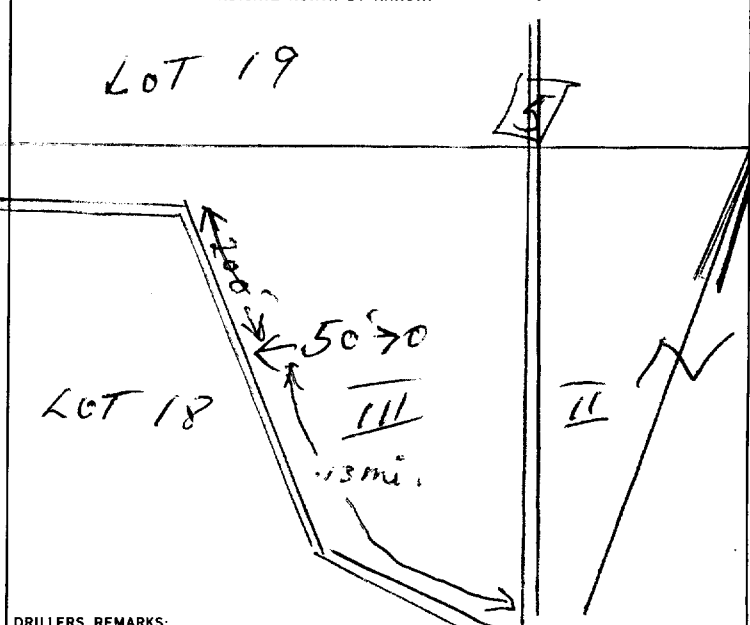
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)	
FROM	TO		
10-13	14-17		
18-21	22-25		
26-29	30-33	80	

PUMPING TEST

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING	
	<input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER 			0010		GPM.	02	15-16 HOURS 00 17-18 MINS.
	STATIC LEVEL 19-21 044 FEET		WATER LEVEL END OF PUMPING 22-24 058 FEET	25 WATER LEVELS DURING 15 MINUTES 26-28 058 FEET 30 MINUTES 29-31 058 FEET 45 MINUTES 32-34 058 FEET 60 MINUTES 35-37 058 FEET		1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY		
	IF FLOWING, GIVE RATE 38-41 GPM.		PUMP INTAKE SET AT FEET		WATER AT END OF TEST 42 FEET		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY	
	RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		RECOMMENDED PUMP SETTING 080		43-45 FEET	RECOMMENDED PUMPING RATE 0010 GPM.		
50-53 -- 000.7 -- GPM./FT. SPECIFIC CAPACITY								

LOCATION OF WELL

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



DRILLERS REMARKS:

CONTRACTOR

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER	
	Austin Stanton		3389	
	ADDRESS			
	39ME			
	NAME OF DRILLER OR BORER		LICENCE NUMBER	
			3389	
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
	Austin Stanton		DAY 22 MO 1 YR 70	

OFFICE, USE ONLY

DATA SOURCE	58 <i>1</i>	CONTRACTOR	59-62 <i>4806</i>	DATE RECEIVED	63-68 <i>110370</i>	80
DATE OF INSPECTION		INSPECTOR <i>[Signature]</i>				
REMARKS: 						

OWRC COPY



Ontario

WATER WELL RECORD

31/80

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

11

1512492

15005

CON. C6N

02

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Carp	CON., BLOCK, TRACT, SURVEY, ETC. HUNTLEY	LOT Old
OWNER (SURNAME FIRST) Township of Huntley	ADDRESS Carp Ontario	DATE COMPLETED DAY 27 MO. 04 YR. 73	

ZONE 1512492	EASTING 18	NORTHING 419186	RC 5021616	ELEVATION 4	RC 336	BASIN CODE 4	II 26	III JUL 08, 1977	IV 299
------------------------	----------------------	---------------------------	----------------------	-----------------------	------------------	------------------------	-----------------	----------------------------	------------------

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay		soft	0	20
grey	clay	sand	soft	20	50
grey	sand		packed	50	150
grey	sand	stones		150	165
grey	gravel	sand & stones		165	185
black	limestone		broken	185	190
grey	limestone		med. hard	190	228
red	granite		med. hard	228	240
grey	limestone		very hard	240	260

31	002060585	0050205285	015022879	016522812	01852112812	019081571	1
32	022821573	024072173	02602159073				

WATER RECORD			
WATER FOUND AT - FEET 0258	KIND OF WATER		
1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL		
15-18	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	

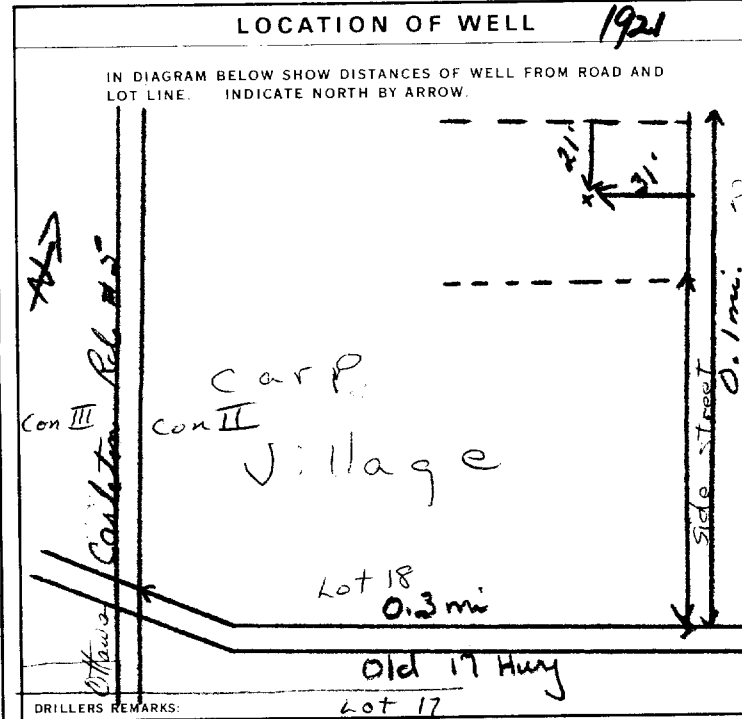
CASING & OPEN HOLE RECORD			
WELL DIA. INCHES 6 1/2	MATERIAL STEEL	WALL THICKNESS INCHES 188	DEPTH - FEET FROM 0 TO 0190
06	2 GALVANIZED		
05	3 CONCRETE		
05	4 OPEN HOLE		
05	1 STEEL	108	170 TO 0200
05	2 GALVANIZED		
05	3 CONCRETE		
05	4 OPEN HOLE		
05	1 STEEL		
05	2 GALVANIZED		
05	3 CONCRETE		
05	4 OPEN HOLE		

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

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

PUMPING TEST			
PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	PUMPING RATE 0010 GPM	DURATION OF PUMPING 15-16 HOURS 00 MINS	
STATIC LEVEL 037 FEET	WATER LEVEL END OF PUMPING 070 FEET	WATER LEVELS DURING PUMPING	
15 MINUTES 050 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET			
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT 090 FEET	WATER AT END OF TEST 0005 GPM	
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE	

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



NAME OF WELL CONTRACTOR Capital Water Supply Ltd.	LICENCE NUMBER 1558
ADDRESS Box 490, Stittsville, Ontario, K0A 3G0	
NAME OF DRILLER OR BORER Jim Moore	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Halton Kurnanagh</i>	SUBMISSION DATE DAY 30 MO. 4 YR. 73

DATA SOURCE 1	CONTRACTOR 1558	DATE RECEIVED 100573
DATE OF INSPECTION June 7, 1976	INSPECTOR <i>AE Kentney</i>	
REMARKS APL		



318/80

1. PRINT ONLY IN SPACES PROVIDED:

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1514580

MUNICIPALITY OF
1.500.5

CON

CON

0.2

LOT 23
018

DATE COMPLETED

DAY 06

MO. 03

YR. 75

1514580	18	418654	5021611	4	330	4	26	JUL 08, 1977	299
---------	----	--------	---------	---	-----	---	----	--------------	-----

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

31	0001802	0025728	0030614	005530511	0059611		
32							
	10 14 15	21	32	43	54	65	75

WATER RECORD

CASING & OPEN HOLE RECORD

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

PLUGGING & SEALING RECORD

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

PUMPING TEST	PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
	1 <input type="checkbox"/> PUMP	2 <input checked="" type="checkbox"/> BAILER	0020		GPM	01 15-16 HOURS 00 17-18 MIN
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING		1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
	024 FEET	045 FEET	024 FEET	26-28 29-31 FEET	32-34 FEET	095 35-37 FEET
	IF FLOWING, GIVE RATE	38-41	PUMP INTAKE SET AT		WATER AT END OF TEST	
		59		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE		46-48
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		050		0005		GPM
50-53		GPM / FT. SPECIFIC CAPACITY				

LOCATION OF WELL 1821

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

A NORTH

300
53
FT

17 Highway

DRILLERS REMARKS

FINAL STATUS OF WELL	54	1 <input checked="" type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED, POOR QUALITY 7 <input type="checkbox"/> UNFINISHED
	55-56	1 <input checked="" type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER _____	5 <input type="checkbox"/> COMMERCIAL 6 <input type="checkbox"/> MUNICIPAL 7 <input type="checkbox"/> PUBLIC SUPPLY 8 <input type="checkbox"/> COOLING OR AIR CONDITIONING 9 <input type="checkbox"/> NOT USED
WATER USE	57	1 <input checked="" type="checkbox"/> CABLE TOOL 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING
	58	1 <input type="checkbox"/> OTHER _____ 2 <input type="checkbox"/> OTHER _____ 3 <input type="checkbox"/> OTHER _____ 4 <input type="checkbox"/> OTHER _____ 5 <input type="checkbox"/> OTHER _____	6 <input type="checkbox"/> OTHER _____ 7 <input type="checkbox"/> OTHER _____ 8 <input type="checkbox"/> OTHER _____ 9 <input type="checkbox"/> OTHER _____
METHOD OF DRILLING	59	1 <input type="checkbox"/> HAND 2 <input type="checkbox"/> WHEEL 3 <input type="checkbox"/> CRANK 4 <input type="checkbox"/> TRIP 5 <input type="checkbox"/> OTHER _____	6 <input type="checkbox"/> OTHER _____ 7 <input type="checkbox"/> OTHER _____ 8 <input type="checkbox"/> OTHER _____ 9 <input type="checkbox"/> OTHER _____
	60	1 <input type="checkbox"/> OTHER _____ 2 <input type="checkbox"/> OTHER _____ 3 <input type="checkbox"/> OTHER _____ 4 <input type="checkbox"/> OTHER _____ 5 <input type="checkbox"/> OTHER _____	6 <input type="checkbox"/> OTHER _____ 7 <input type="checkbox"/> OTHER _____ 8 <input type="checkbox"/> OTHER _____ 9 <input type="checkbox"/> OTHER _____

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER
	Delmer John Work		5411
	ADDRESS		
	RR # 2 Clayton OK		
	NAME OF DRILLER OR BORER		LICENCE NUMBER
	Delmer John Work		5411
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE
			DAY _____ MO. _____ YR. _____

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	80
	1		5411		210375		
	DATE OF INSPECTION		INSPECTOR				
	6 Apr 76		P/R. Don				
REMARKS:							P
							WI



[11]

1545638

MUNICIPALITY

1999

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH CITY, TOWN, VILLAGE

CON., BLOCK, TRACT, SURVEY, ETC. *FL 110 218*

LOT

CARLETON

~~CARP~~

CHURCH ST

142

OWNER (SURNAME FIRST)

28 47

ADDRESS

CART

ONT

DATE COMPLETED 12-1-54

PAY 77

9 YR 10

N ₁		RC		ELEVATION		RC		BASIN CODE		II		III		IV	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

31

32

WATER RECORD

CASING & OPEN HOLE RECORD

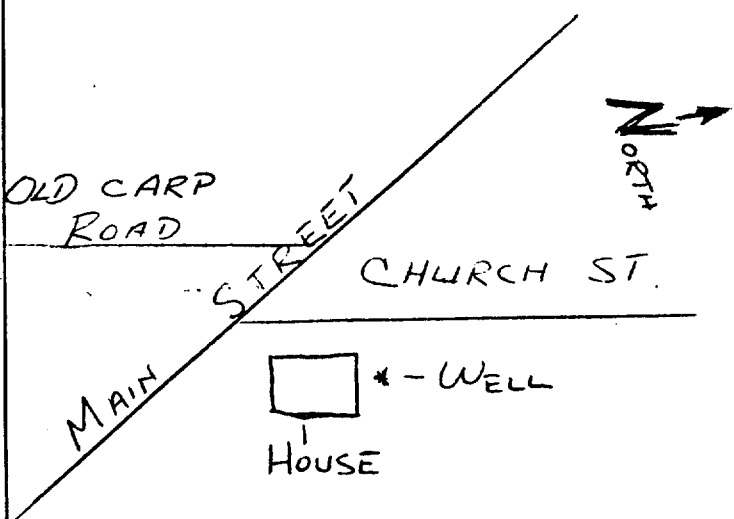
SCREEN	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH
	MATERIAL AND TYPE			INCHES	FEET
	DEPTH TO TOP OF SCREEN			41-44	FEET

PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE CEMENT GROUT LEAD PACKER, ETC
FROM	TO	
10 11	14 17	
18 21	22 25	
26 29	30 33	RD

LOCATION OF WELL

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



DELLERS REMARKS

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

CONTRACTOR	NAME OF WELL CONTRACTOR W. A. DEEVY		LICENCE NUMBER 1703	
	ADDRESS 309 ASHTON			
	NAME OF DRILLER OR BORER W. DEEVY		LICENCE NUMBER 1703	
	SIGNATURE OF CONTRACTOR W. A. Deevy		SUBMISSION DATE DAY 25 MO 09 YR 70	

OFFICE USE ONLY	DATA SOURCE	SE	CONTRACTOR	DATE	191076
	DATE OF INSPECTION		INSPECTOR		
	REMARKS				P WI



L.P.M.

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

31F8a

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

11

11515887

MUNICIP.
LS005

CON.
CaN

02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	DATE COMPLETED
Carleton	West Carleton (Huntley)	2	018 25
5 Main St. Carp, Ontario			DAY 01 MO 04 YR 77
MIN.	ELEVATION	BASIN CODE	
021480 4	0320 4	20	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31 00026112801 00102052885 009532879 010021179

41 WATER RECORD		14	15	21
WATER FOUND AT - FEET	KIND OF WATER			
10-13 0100	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	14	
15-18	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	19	
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	24	
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	29	
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	34	

32		43	
CASING & OPEN HOLE RECORD			
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
51 11 06	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0100
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN	54	64	75	80
	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER 34-38	LENGTH 39-40
	INCHES			FEET
	MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 80
				FEET

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

<div style="border: 1px solid black; padding: 2px; display: inline-block;">71</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; padding: 5px;">PUMPING TEST</div>	PUMPING TEST METHOD		10	PUMPING RATE		E-14	DURATION OF PUMPING	
	1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER			0030		GPM	02	15-16 HOURS 00 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25	WATER LEVELS DURING			1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
	19-21 FEET	22-24 FEET	15 MINUTES	26-28 FEET	30 MINUTES	29-31 FEET	45 MINUTES	60 MINUTES
	022	030	030	030	030	030	030	35-37
IF FLOWING, GIVE RATE		38-41 GPM	PUMP INTAKE SET AT			WATER AT END OF TEST		
						42		
RECOMMENDED PUMP TYPE			RECOMMENDED PUMP SETTING			RECOMMENDED PUMPING RATE		
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP			43-45 FEET			1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY		
			050			0005		
50-53			GPM./FT. SPECIFIC CAPACITY					

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

LOCATION OF WELL

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


WELL

65' - 15 mi

LOT # 005

Village of CARR

DRILLERS REMARKS:

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER	
	Capital Water Supply Ltd.		1558	
	ADDRESS			
	Box 490 Stittsville, Ontario			
	NAME OF DRILLER OR BORER		LICENCE NUMBER	
	J. Moore			
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
			DAY 4 MO. 4 YR. 77	

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	80
	1		1558		100577		
	DATE OF INSPECTION		INSPECTOR				
	MAY 30/78		K				
	REMARKS:					P ✓	
	2 STORY BROWN WOOD SIDED HOUSE - RED TRIM					WI	



The Ontario Water Resources Act

31F80

WATER WELL RECORD

1 PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1518020

MUNICIP.
15005

CON.
CÓN

02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY ETC.	09 25-27
Ottawa-Carleton	West Carleton - Huntley	Conc. 2 II	19
OWNER (SURNAME FIRST) 28-47	ADDRESS	DATE COMPLETED 48-53	
Jake Both Const.	Constance Bay, Ontario.	DAY 04 MO 10 YR 82	

21

U T M

ZONE
18

EASTING
418699

NORTHING 5021899

ELEVATION
0350

RC
4

BASIN C
26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

001020579

009562879

0	1	3	0	2	2	8	1	2	7	7
---	---	---	---	---	---	---	---	---	---	---

0	1	4	9	2	1	4	1	3	7	9
---	---	---	---	---	---	---	---	---	---	---

025521585

32

WATER RECORD

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

CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES		MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
				FROM	TO
06 06	10-11	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	12	188	0 0150
06	17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE	19	150	0 0255
	24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	26		

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
	INCHES			FEET		
	MATERIAL AND TYPE			DEPTH TO TOP OF SCREEN	41-44	30
				FEET		

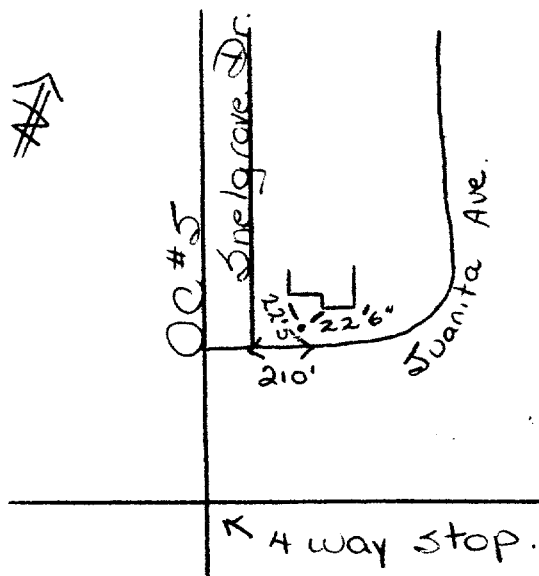
61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET		MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
FROM	TO		
10-13	14-17		
18-21	22-25		
26-29	30-33	00	

PUMP TEST	PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
	1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER		0007 GPM		15-16 HOURS 00 MINS	
	25		WATER LEVELS DURING		1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
	19-21 22-24		15 MINUTES 26-28 30 MINUTES 29-31		45 MINUTES 32-34 60 MINUTES 35-37	
	075 FEET 130 FEET		100 FEET 125 FEET		125 FEET 125 FEET	
IF FLOWING GIVE RATE		38-41 PUMP INTAKE SET AT		WATER AT END OF TEST		
GPM		FEET		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE		
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		150 FEET		0005 GPM		
50-53						

LOCATION OF WELL

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



DRILLERS REMARKS

FINAL STATUS OF WELL	54 1 <input checked="" type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED POOR QUALITY 7 <input type="checkbox"/> UNFINISHED
	55-56 WATER USE	1 <input checked="" type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER
METHOD OF DRILLING	57 1 <input checked="" type="checkbox"/> CABLE TOOL 2 <input checked="" type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER
	Capital Water Supply Ltd.		1558
	ADDRESS		
	Box 490; Stittsville, Ont. KOA 3G0		
	NAME OF DRILLER OR BORER		LICENCE NUMBER
	J. Moore/C. Sparks		
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE	
	<i>[Signature]</i>	DAY 04 MO 10 YR 80	

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	13 12 82	58	BO
			1558					
	DATE OF INSPECTION		INSPECTOR					
REMARKS:								
<p style="text-align: right;">CES. 68</p>								

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506-4-77 FORM 7



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

8313
31F8a

WATER WELL RECORD

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

11

1518827

MUNICIPALITY
15005

CON. C/PN

02

COUNTY OR DISTRICT

CARLETON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Huntley

CON. BLOCK, TRACT, SURVEY, ETC

II

LOT

018

DATE COMPLETED

DAY 06 MO 05 YR 83

WINGSIDE SUBDIVISION CARR. ONT.

21599

ELEVATION
0310

RAIN CODE
26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	sand		Loose	0	25
Brown	clay		Packed	25	75
Black	clay		Hard	75	100
Brown	sand		Loose	100	123
Black	Granite		Hard	123	207

MOE
VF-18

31

00282877

008560579

010081373

012362877

020782173

32

41

WATER RECORD

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

51

CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	12	0	0128
17-18	1 <input type="checkbox"/> STEEL	19		
24-25	1 <input type="checkbox"/> STEEL	26		

SCREEN

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

61

PLUGGING & SEALING RECORD

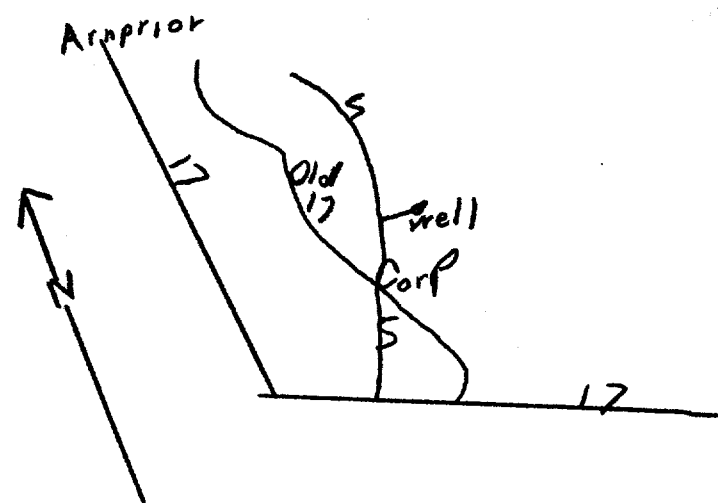
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

PUMPING TEST

PUMPING TEST METHOD		PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER	0020 GPM	01 15-16 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
18-21	22-24	15 MINUTES	30 MINUTES
26-28	29-31	45 MINUTES	60 MINUTES
35-37			
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST	
38-41	195 GPM	1 <input checked="" type="checkbox"/> CLEAR	2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE	
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	195 FEET	0015 GPM	

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

NAME OF WELL CONTRACTOR	LICENCE NUMBER
George H. Law, Inc. Ltd.	3323
ADDRESS	
Calabogie Ontario	
NAME OF DRILLER OR BORE	LICENCE NUMBER
Alfred Law	3352
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
George H. Law	DAY 10 MO 9 YR 83

DATA SOURCE	CONTRACTOR	DATE RECEIVED
1	3323	010384
DATE OF INSPECTION	INSPECTOR	
REMARKS		



Ministry
of the
Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1518961

CON.

COUNTY OR DISTRICT

TOWN, BOROUGH, CITY, TOWNSHIP

CON. BLOCK, TRACT, SURVEY, ETC.

LOT

DATE COMPLETED

DAY 30 MO OCT YR 84

21

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown Loam				0	10
Soil				10	73
Grey & Brown Lenses				73	100

31

32

41

WATER RECORD

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

CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6-11	<input checked="" type="checkbox"/> STEEL	1/8"	0
6-11	<input type="checkbox"/> GALVANIZED		75
	<input type="checkbox"/> CONCRETE		
	<input type="checkbox"/> OPEN HOLE		
	<input type="checkbox"/> STEEL		
	<input type="checkbox"/> GALVANIZED		
	<input type="checkbox"/> CONCRETE		
	<input type="checkbox"/> OPEN HOLE		
	<input type="checkbox"/> STEEL		
	<input type="checkbox"/> GALVANIZED		
	<input type="checkbox"/> CONCRETE		
	<input type="checkbox"/> OPEN HOLE		

SCREEN

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

61

PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
FROM TO		
10-13	14-17	
18-21	22-25	
26-29	30-33	60

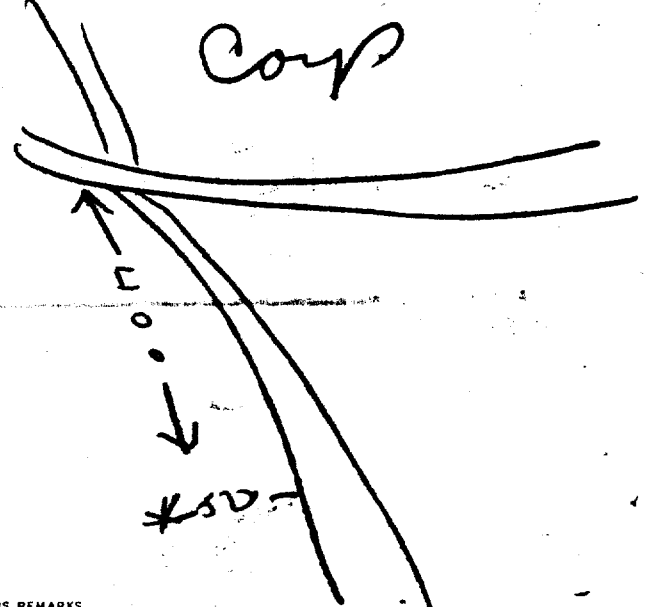
71

PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	50 GPM	15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
20 FEET	60 FEET	15 MINUTES 20-24 40-60 25-31 60-60 32-34 60-60 35-37 60-60
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	95 FEET	<input type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	60 FEET	50 GPM

LOCATION OF WELL

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



DRILLERS REMARKS

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Sandwell Drilling	4767
ADDRESS	
RTE 2 Corp	
NAME OF DRILLER OR BORER	LICENCE NUMBER
Sandwell	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
R Sandwell	DAY 30 MO OCT YR 84

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		12 06 84
DATE OF INSPECTION	INSPECTOR	
REMARKS		

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506-4-77 FORM 7



Ministry
of the
Environment

Ontario

The Ontario Water Resources Act

31F8a

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT <u>Carleton Place</u>	TOWN, VILLAGE, BOROUGH, CITY, TOWNSHIP <u>Carleton Place</u>	CON. BLOCK, TRACT, SURVEY, ETC. <u>Ward 3</u>	DATE COMPLETED DAY <u>30</u> MO <u>04</u> YR <u>84</u>
NG <u>021399</u> BC <u>4</u> ELEVATION <u>0310</u> BC <u>4</u> BASIN CODE <u>26</u>		LOT <u>018</u>	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Loam			0	10
Soil				10	73
Grey & Brown	Lensile			73	100

MOE
VF 18

31	<u>0010002</u>	<u>0073 28</u>	<u>0100215</u>
32			

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
0080	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR
0092	2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
5.2	1 <input checked="" type="checkbox"/> STEEL	1.88	0 0075

61 PLUGGING & SEALING RECORD		
DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13		

71 PUMPING TEST	PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
	1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILEY	0050 GPM	01 15-16 00 HOURS

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

FINAL STATUS OF WELL	1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY	

CONTRACTOR	NAME OF WELL CONTRACTOR <u>Sandwell Drilling</u>	LICENCE NUMBER <u>4767</u>
ADDRESS <u>RRTI 2 Corp</u>	NAME OF DRILLER OR BOREH <u>Sandwell</u>	LICENCE NUMBER <u>1</u>

OFFICE USE ONLY	DATA SOURCE <u>1</u>	CONTRACTOR <u>4767</u>	DATE RECEIVED <u>12 06 84</u>
DATE OF INSPECTION	INSPECTOR		



S.O. 69784

The Ontario Water Resources Act

WATER WELL RECORD

1523936

15005 CON
MUNICIPAL CON.
Lot 1 PLAN 417466⁰²

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

11

COUNTY OR DISTRICT <i>A</i>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>CARP</i>	CON BLOCK TRACT SURVEY ETC <i>2</i>	LOT <i>18</i>
<i>[REDACTED]</i>		<i>102. CAUANAUGH DRIVE</i>	DATE COMPLETED DAY <i>10</i> MO <i>5</i> YR <i>89</i>
<i>[REDACTED]</i>		<i>CARP ONT</i>	<i>NOV 16</i>

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

Category	Frequency
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	1
53	1
54	1
55	1
56	1
57	1
58	1
59	1
60	1
61	1
62	1
63	1
64	1
65	1
66	1
67	1
68	1
69	1
70	1
71	1
72	1
73	1
74	1
75	1
76	1
77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

32

Category	Frequency
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	1
53	1
54	1
55	1
56	1
57	1
58	1
59	1
60	1
61	1
62	1
63	1
64	1
65	1
66	1
67	1
68	1
69	1
70	1
71	1
72	1
73	1
74	1
75	1
76	1
77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

41		WATER RECORD			
WATER FOUND AT - FEET		KIND OF WATER			
170'	10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS		
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	19		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS		6 <input type="checkbox"/> GAS	
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	24		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS		6 <input type="checkbox"/> GAS	
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	29		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS		6 <input type="checkbox"/> GAS	
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	34		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS		6 <input type="checkbox"/> GAS	

CASING & OPEN HOLE RECORD				
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11 10-11 6 1/4	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	12 .188		13-16 170'
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	19		20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	26		27-30

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

61 PLUGGING & SEALING RECORD			
DEPTH SET AT FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)	
FROM	TO		
0-13	14-17	CEMENT GROUT	
18-21	22-25		
26-29	30-33	80	

PUMPING TEST METHOD	10		PUMPING RATE		11-14		DURATION OF PUMPING		
	<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER		100+ GPM		3		15-16 HOURS 17-18 MINS		
	25		WATER LEVELS DURING		1 <input checked="" type="checkbox"/> PUMPING				
	2 <input type="checkbox"/> RECOVERY								
STATIC LEVEL	WATER LEVEL END OF PUMPING		15 MINUTES		30 MINUTES		45 MINUTES		
19-21	22-24		65 FEET		65 FEET		65 FEET		
50 FEET	65 FEET		65 FEET		65 FEET		65 FEET		
IF FLOWING, GIVE RATE		38-41		PUMP INTAKE SET AT		WATER AT END OF TEST		42	
		GPM		65 FEET		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY			
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		43-45		RECOMMENDED PUMPING RATE		46-49	
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		65 FEET		10		GPM			
10-53									

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

LOCATION OF WELL

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

CAVANAGH DR.

40'

35'

X

10'

DRIVE WAY

GARAGE

HOUSE

LANGSTAFF DR.

N.

55299

DRI...LLERS REMARKS

CONTRACTOR	NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER
	ADDRESS	
	NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
	SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE

Valley Drilling Co Ltd
P.O. Box 437 Carp, Ont
Bill Bisson
T-0190
Day _____ No. _____ Yr. _____

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	80
			5222		OCT 12 1989		
	DATE OF INSPECTION		INSPECTOR				
	REMARKS						

63-68



Abandonment

Docom-2

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 2

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

MUN

CON

LOT

RR#/Street Number/Name

City/Town/Village

Site/Compartment/Block/Tract etc.

GPS Reading

NAD

Zone

Easting

Northing

Unit Make/Model

Mode of Operation:

☐ Undifferentiated☐ Averaged

83

18

911230

50-111425

☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

[illegible]

Hole Diameter			Construction Record					Test of Well Yield					
Depth	Metres	Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth		Metres	Pumping test method	Draw Down		Recovery	
From	To	Centimetres				From	To			Time min	Water Level Metres	Time min	Water Level Metres
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Pump intake set at - (metres)	Static Level			
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Pumping rate. - (litres/min)	1		1	
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Duration of pumping ____ hrs + ____ min	2		2	
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Final water level end of pumping _____ metres	3		3	
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					Recommended pump depth. _____ metres	5		5	
									Recommended pump rate. _____ (litres/min)	10		10	
									If flowing give rate - (litres/min)	20		20	
									If pumping discontin- ued, give reason.	25		25	
										30		30	
										40		40	
										50		50	
										60		60	

Water Record		
Water found at _____ Metres	Kind of Water	
<input type="checkbox"/> m <input type="checkbox"/> Gas <input type="checkbox"/> Other:	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
<input type="checkbox"/> m <input type="checkbox"/> Gas <input type="checkbox"/> Other:	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
<input type="checkbox"/> m <input type="checkbox"/> Gas <input type="checkbox"/> Other:	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____		
Chlorinated	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Casing	
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized
Screen	
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized
Slot No.	
No Casing or Screen	
<input type="checkbox"/> Open hole	

Plugging and Sealing Record		<input type="checkbox"/> Annular space	<input checked="" type="checkbox"/> Abandonment
Depth set at - Metres			
From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	11.45	Bentonite Slurry	

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

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

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

Well Contractor/Technician Information	
Name of Well Contractor Hewitt Drilling Co Ltd	Well Contractor's Licence No. 6814
Business Address (street name, number, city etc.) 2501 Hazelton Avenue Ottawa Ontario K1T 3V6	
Name of Well Technician (last name, first name) Terry Wright	Well Technician's Licence No. 715
Signature of Technician/Contractor Terry Wright	Date Submitted 2007 07 28

Location of Well			
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.			
<div style="text-align: center; margin-bottom: 20px;"> </div>			
Audit No.	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">z 33661</div>		
Date Well Completed	<div style="display: flex; justify-content: space-between;"> YYY MM DD </div> <div style="font-size: 1.5em; font-weight: bold; margin-top: 5px;">2004 08 04</div>		
Date Delivered	<div style="display: flex; justify-content: space-between;"> YYYY MM DD </div>		
Was the well owner's information package delivered? <div style="display: flex; justify-content: center; margin-top: 5px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </div>	<div style="display: flex; justify-content: space-between; height: 40px;"> <div></div> <div></div> <div></div> </div>		

Ministry Use Only				
Data Source			Contractor 6894	
Date Received	YYYY	MM	DD	Date of Inspection YYYY MM DD
Remarks			Well Record Number	

Address of Well Location (Street Number/Name, RR) 422 Donald Munro Drive Township West Carleton Place Lot 240 Part 25
County/District/Municipality Ottawa Carleton City/Town/Village Carp Province Ontario Postal Code K0A 1H0

UTM Coordinates NAD 83 Zone 18 Easting 418909 Northing 5021756 GPS Unit Make Magellan Model explorer Mode of Operation: ☒ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)				
General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From To
	topsoil	gravel	topsoil	0 0.6
brown	sand		medium sand	0.6 1.5
gray	clay		clay	1.5 6.0
BH1 is monitoring well BH2 - no installation				

Hole Details		
Depth (Metres) From To	Diameter (Centimetres)	
0 6.0	5.0	

Water Use			
<input type="checkbox"/> Public	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used	<input type="checkbox"/> Other, specify
<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring	
<input type="checkbox"/> Irrigation	<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Cooling & Air Conditioning	

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

Status of Well	
<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Other, specify
<input type="checkbox"/> Alteration (Construction)	<input type="checkbox"/> Abandoned, other, specify

No Casing and Screen Used	Static Water Level Test
Open Hole <input type="checkbox"/> Yes <input type="checkbox"/> No	Metres

Screen	
<input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Plastic	
Outside Diameter (Centimetres) 4.1	Slot No. 10

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

Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No If no, provide reason:	Date Master Well Completed (yyyy/mm/dd) 2008/07/11
---	--

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)	
Total Wells in Cluster 1	Please indicate Number of Cluster Well Information Log Sheets Submitted
Total Wells on this Property 1	

Location of Well Cluster	
Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.	
<input checked="" type="checkbox"/> Check box to confirm detailed map is provided as per Section 11.1 (3)	

Consent to release additional information concerning the cluster to the Director upon request

Construction Details				
Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From To	
3.5	plastic riser	0.3	0	3.0
3.5	plastic screen	0.3	3.0	6.0

Annular Space/Abandonment Sealing Record			
Depth Set at (Metres) From To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)	
0 2.3	bentonite pellets		
2.3 6.0	filter sand	1/2 bag	

Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
OGS Inc		6964	
Business Address (Street No./Name, number, RR)		Municipality	
5518 Appleton Side Road		Almonte	
Province	Postal Code	Business E-mail Address	
Ontario	K0A 1A0	ogs inc@bell net.ca	
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
613 256 7666		Ohlmann Wilk	
Well Technician's Licence No.	Signature of Technician		Date Submitted (yyyy/mm/dd)
2594	Wilk/Ohlmann		2008/08/08

Ministry Use Only	
Audit No. M 03131	Well Contractor No.
Date Received (yyyy/mm/dd) AUG 13 2008	Date of Inspection (yyyy/mm/dd)
Remarks (A) MAPS	



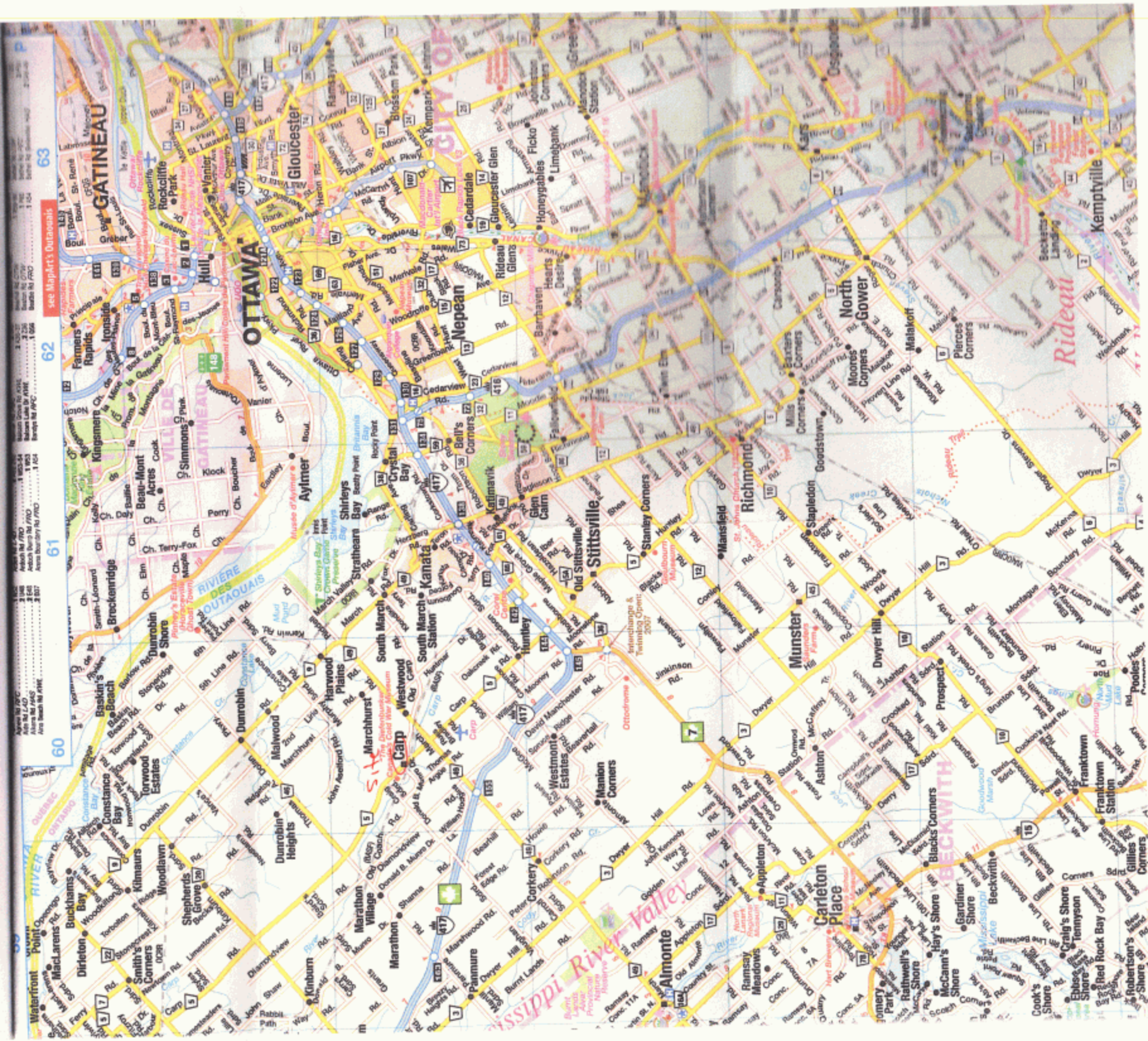
LEGEND:

⊗ BOREHOLE LOCATION

SITE PLAN

422 DONALD B. MUNRO DRIVE
CARP, ONTARIO

C-6964 AUG 13 2008 M 03131



M03131

AUG 13 2008

C-6964

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

POSITION

Intermediate Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

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

EXPERIENCE

2018 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015

Thurber Engineering Limited

Oil Sand Tailings Group
Tailings Engineer

2009 – 2014

Carleton University

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

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

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

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa