

**Geotechnical
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Phase I-Environmental Site Assessment

3288 Greenbank Road
Ottawa, Ontario

Prepared For

Caivan Communities

Paterson Group Inc.

Consulting Engineers
154 Colonnade Road South
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March 11, 2019

Report: PE4558-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Caivan Communities to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I study area and to identify any environmental concerns with the potential to have impacted the Phase I property.

According to the historical research, the Phase I Property was first developed pre-1976 with a farmstead (residential dwelling and associated structures) and used for agricultural purposes. Historical land use of the neighbouring properties was also for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site is occupied by the original residential dwelling and associated structures. The dwelling is current occupied by a tenant. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

1.0 INTRODUCTION

At the request of Caivan Communities, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Frank Cairo with Caivan Communities. The head office is located at 302-2934 Baseline Road, Ottawa, Ontario. Mr. Cairo can be reached by telephone at (613) 518-1864.

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:	3288 Greenbank Road, Ottawa, Ontario
Legal Description:	Part of lot 14, Concession 3 Rideau Front, in the City of Ottawa
Location:	The site is located on the west side of Greenbank Road, 100 m south of the Jockvale Road and Greenbank Road intersection, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	04590-0058
Latitude and Longitude:	45° 15' 48.42" N, 75° 44' 44.83" W
Site Description:	
Configuration:	Rectangular
Area:	12.5 acres (approximately)
Zoning:	Development Reserve Zone
Current Use:	The subject site is currently occupied by a two (2) storey, red brick residential dwelling with an attached garage, a private shed/garage and an old wood barn, situated on the north-eastern corner of the property, while the remaining land is used for agriculture.
Services:	The subject site and adjacent lands are situated in a municipally serviced area.

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

An aerial photograph from 1976 indicated that the subject site was developed pre-1976 with a farmstead (the existing residence).

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the subject area.

City of Ottawa Street Directories

The 2011 city directories for the subject site and study area were available. The subject site was listed as a residence, while the study area was listed primarily as either residential or unlisted.

Chain of Title

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

Environmental Reports

Paterson Group has conducted environmental and geotechnical investigations in the immediate vicinity of the subject site. Based on a review of our files, no potential environmental concerns were identified on the subject site or neighbouring lands.

Plan of Subdivision

No survey plan was provided, however, a plan of the proposed development for the site has been provided by Korsiak Urban Planning, dated December 11, 2018. A copy of the proposed development plan is included in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on February 20, 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.

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

MECP Submissions

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

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Management Records

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

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment 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 1 km of 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 February 20, 2019. The search did not reveal areas of natural significance within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on February 20, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. There are no closed landfill sites within the vicinity of the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. At the time of issuance of this report, the HLUI search results had not been received. A copy of the HLUI request form is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

1976	The subject site is occupied by a farmstead on the northeast corner of the lot. Most of the subject land is agricultural. The surrounding lands appear as either farmsteads or residential and agricultural fields. Greenbank Road and Jockvale Road are present at this time.
1991	No significant changes are apparent to the subject site. A culvert or storm management pond can be seen to the west of the property. The surrounding area appears unchanged from the previous photograph, with the exception of a residential development to the northwest.
2002	The subject site appears unchanged from the previous photograph. Lands further to the north and southeast are under development with a commercial development to the north and an institutional building (school) to the southeast. Lands to south and west appear unchanged from the previous photograph.
2011	No significant changes are apparent to the subject site. More commercial development can be seen further north and northeast, as well as new roadways.
2017	No significant changes are apparent to the subject site or surrounding area.

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 south-westerly direction towards the Jock River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

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

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the northeastern area of the site consists of sandstone and dolomite, interbedded, of the March Formation, and the in southwestern area of the site consists of limestone and dolomite, interbedded, of the Gull River Formation. The site is located in an area where offshore marine sediments consisting of marine deposits of clay and silt are present. The drift thickness in the area ranges from 10 to 15 m.

Water Well Records

A Well Record search was conducted on February 20, 2019 for all drilled wells within 250 m of the subject site. The well record search returned twenty-four (24) well records; fifteen (15) of which were domestic wells; seven (7) monitoring wells and two (2) abandoned wells. One domestic well was indicated on the subject site. Two monitoring wells were located on the adjacent properties to the south, both used for construction/alteration purposes. The remaining well records were identified approximately 200 m away from the subject site. No potential environmental concerns have been identified with respect to the subject site. Copies of the well records has been included in Appendix 2.

Water Bodies and Areas of Natural Significance

A small ditch that drains to Jock River is situated on the subject site. The Jock River is located approximately 200 m south of the Phase I property. No other water bodies or areas of natural significance were identified in the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Caivan Communities was contacted via email as part of this assessment. Caivan Communities is the prospective buyer of the property for future residential developments. The land had been used for residential and agricultural purposes. Caivan Communities is not aware of any potential environmental concerns with respect to the subject or adjacent properties. The current property owner was unavailable for an interview.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on March 7, 2019. Weather conditions were sunny with a temperature of approximately -16°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 primarily agricultural fields with a residential dwelling and associated buildings situated on the northeast corner of the property. The site was snow covered at the time of the visit.

Site drainage consists primarily of infiltration. The site topography is relatively flat and at grade with Greenbank Road. The regional topography slopes down in a south-westerly/southerly direction towards the Jock River.

No underground utilities were noted on-site. No drains or private sewage systems were observed at the subject property at the time of the site visit. No

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

Buildings and Structures

The site is occupied by a two (2) storey residence, finished in red brick with a sloped shingle style roof. A private garage/storage shed and a wooden barn were noted adjacent to the dwelling.

The interiors of the subject buildings were not accessible at the time of the site visit.

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:

- ☐ North - Commercial business (Mini Putt Golf), followed by vacant land;
- ☐ South - Vacant land, followed by Jock River;
- ☐ East - Greenbank Road, followed by residential dwellings;
- ☐ West - Culvert, followed by vacant land.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. No properties within the Phase I study area are occupied by potentially contaminating activities. Current land use in the Phase I Study area is illustrated on Drawing PE4558-2 – 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 was first developed pre-1976 with a farmstead and used for agricultural purposes. No potential environmental concerns were noted with the historical and current land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property or within the Phase I Study Area. Therefore, no Areas of Potential Environmental Concern (APECs) were identified on the subject site.

Contaminants of Potential Concern

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

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 10 to 15 m. The overburden consists of offshore marine deposits of clay and silt. Bedrock in the area is comprised of both sandstone and dolomite (interbedded) and limestone and dolomite (interbedded) in the northeastern and southwestern parts of the site, respectively.

Groundwater flow is interpreted to be in a south-westerly direction towards the Jock River.

Existing Buildings and Structures

The north-eastern corner of the site is occupied by a two (2) storey residence with an attached garage, a private garage/storage shed, and a wooden barn.

Water Bodies and Areas of Natural Significance

No water bodies or areas of natural significance were identified on the Phase I Property or within the Phase I Study Area.

Drinking Water Wells

One domestic well record from 1961 was indicated on the subject property and fifteen (15) domestic well records were identified within the study area.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of vacant/agricultural land, farmsteads and/or residential dwellings and an institution (high school).

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, PCAs were not identified on the subject property or within the Phase I Study Area. Therefore, no APECs are present on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, no Contaminants of Potential Concern (CPCs) were identified on the subject site.

Assessment of Uncertainty and/or Absence of Information

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

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Caivan Communities to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I study area and to identify any environmental concerns with the potential to have impacted the Phase I property.

According to the historical research, the Phase I Property was first developed pre-1976 with a farmstead (residential dwelling and associated structures) and used for agricultural purposes. Historical land use of the neighbouring properties was also for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site is occupied by the original residential dwelling and associated structures. The dwelling is current occupied by a tenant. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

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 Caivan Communities. Permission and notification from Caivan Communities and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Mandy Witteman, M.A.Sc.



Mark S. D'Arcy, P.Eng.



Report Distribution:

- ☐ Caivan Communities
- ☐ Paterson Group

10.0 REFERENCES

Federal Records

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

Provincial Records

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

Municipal Records

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

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4558-1 – SITE PLAN

DRAWING PE4558-2 – SURROUNDING LAND USE PLAN



FIGURE 1
KEY PLAN

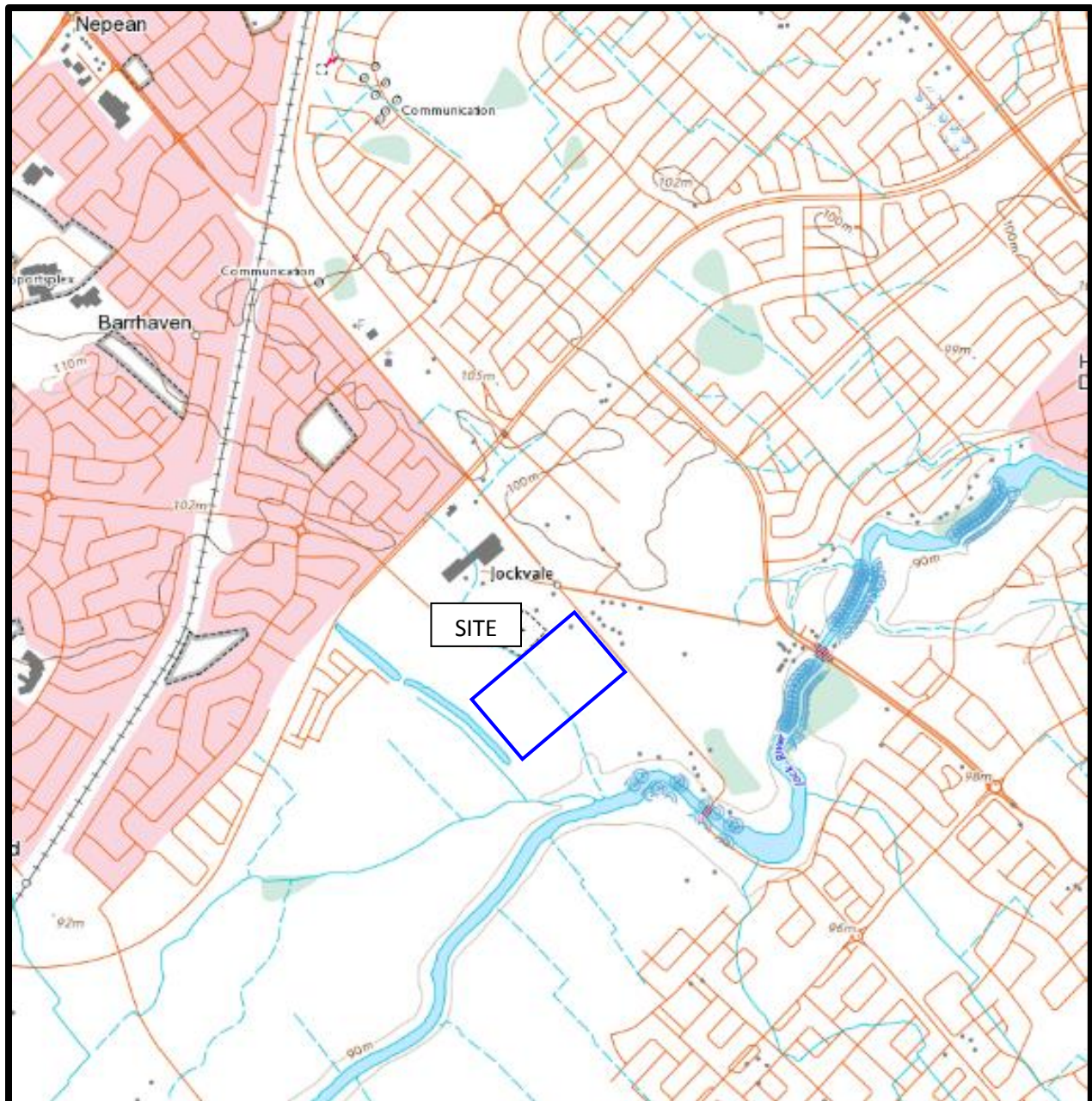
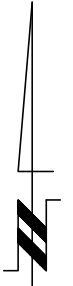
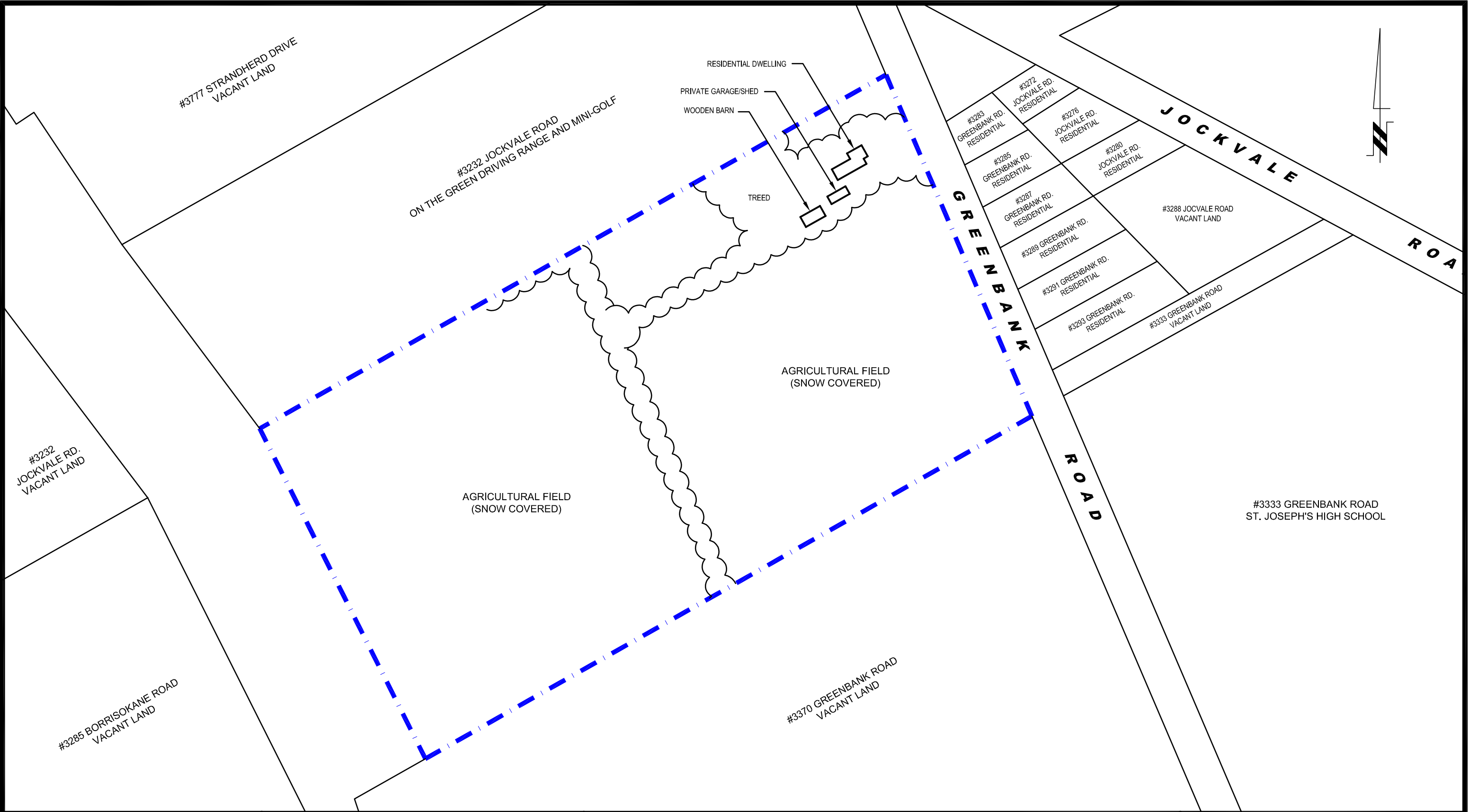


FIGURE 2
TOPOGRAPHIC MAP



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NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
3288 GREENBANK ROAD

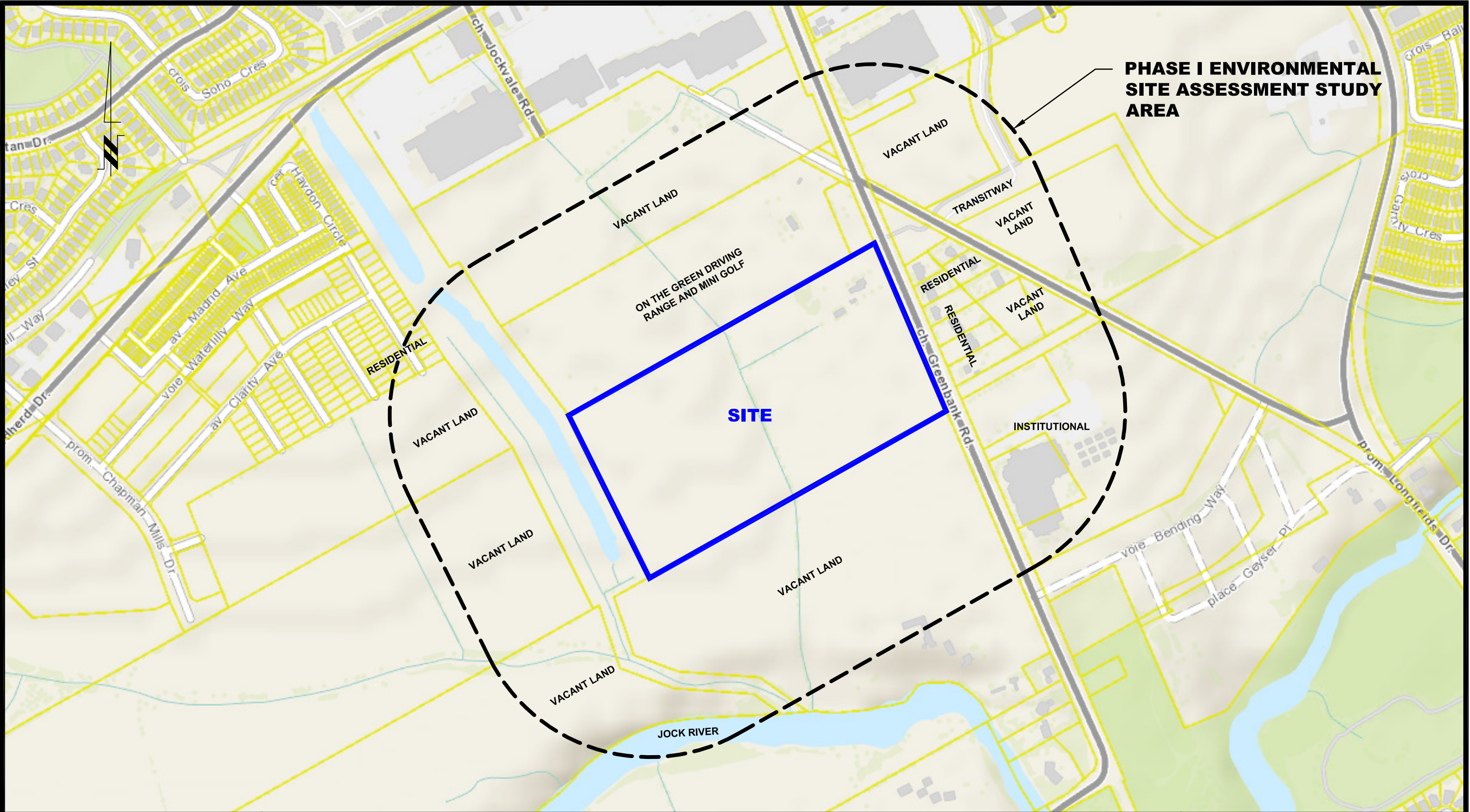
OTTAWA,
Title:

ONTARIO

SITE PLAN

Scale:	1:2500	Date:	03/2019
Drawn by:	MPG	Report No.:	PE4558-1
Checked by:	MW	PE4558-1	Revision No.:
Approved by:	MSD		

p:\autocad drawings\environmental\pe4558\pe4558-1 site plan.dwg



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NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES	
PHASE I - ENVIRONMENTAL SITE ASSESSMENT	
3288 GREENBANK ROAD	
OTTAWA,	ONTARIO
Title:	
SURROUNDING LAND USE PLAN	

Scale:	1:5000	Date:	03/2019
Drawn by:	MPG	Report No.:	PE4558-1
Checked by:	MW	PE4558-2	
Approved by:	MSD		
		Revision No.:	

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APPENDIX 1

PLAN OF SUBDIVISION

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

Concept 12B

South Nepean Town
Centre
City of Ottawa

DWELLING TYPE	UNIT COUNT	(%)
Stacked Back To Back Town	552	60
Back-to-Back Town	50	5
Apartment	311	34
Total	913	100

PARCEL #	UNIT COUNT	AREA (HA)	DENSITY (UPH)
1	128	1.11	115
2	156	1.35	116
3	311	1.10	283
4	64	0.63	102
5	84	0.81	104
6	170	1.71	99
Total	913	6.71	136

PARKING PROVIDED	
Stacked B2B Towns	
Parcel 1:	±128 spaces (±1.00 space/unit)
Parcel 2:	±157 spaces (±1.01 space/unit)
Parcel 4:	±64 spaces (±1.00 space/unit)
Parcel 5:	±85 spaces (±1.01 space/unit)
Parcel 6:	±120 spaces (±1.00 space/unit)
Total:	±554 spaces

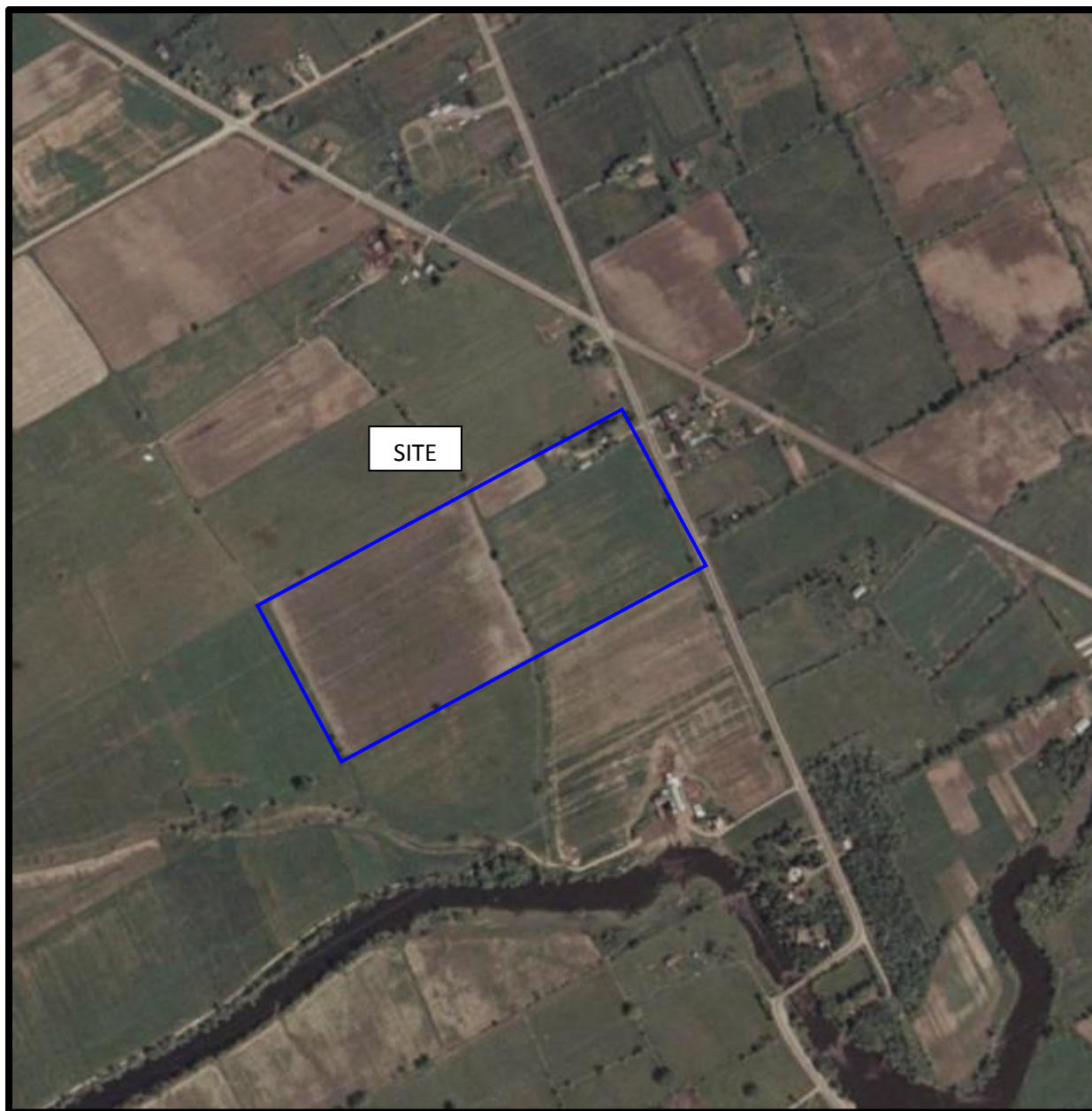
December 11, 2018

Scale 1:1500



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info@korsiak.com





AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4558

3288 Greenbank Road, Ottawa, ON

March 7, 2019



Photograph 1. View of residential dwelling situated on the northeast corner of the Phase I Property.



Photograph 2: View of the agricultural field, looking southwest

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment,
Conservation and Parks

Access and Privacy Office

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

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

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

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél.: (416) 314-4075
Télééc.: (416) 314-4285



February 20, 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-2019-01060, Your Reference PE4558

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 3288 Greenbank Road, Ottawa. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Victoria Partosa at victoria.partosa@ontario.ca.

Yours truly,

 Janet Dadufalza
Manager, Access and Privacy

Mandy Witteman

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: February-21-19 6:01 PM
To: Mandy Witteman
Subject: RE: Records Search Request (PE4558)

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Mandy,

Thank you for your request for confirmation of public information.

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

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 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.

Kind regards,

Yalini



Yalini Kanagendran | Public Information Agent

Facilities

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-3449 | Fax: +1-416-231-6183 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: February 20, 2019 4:29 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Records Search Request (PE4558)

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:

Greenbank Rd: 3288, 3248, 3270, 3283, 3285, 3287, 3289, 3293, 3333

Jockvale Rd: 3232,

February 19, 2019
File: PE4558-HLUI

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

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
3288 Greenbank Road
Ottawa, Ontario**

Dear Sir,

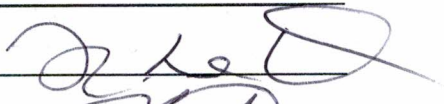
Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

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

Name of Company/Property Owner:

Xi NAM DAM Shan Hu Dam

Name of Representative/Owner



Signature of Representative/Owner



Date

2018 2019-2-26
YWG.

Well ID Number: 7287120
Well Audit Number: Z226860
Well Tag Number:

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

Well Location

Address of Well Location	3370 GREENBANK ROAD
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	NEPEAN
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 441707.00 Northing: 5012160.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
13.71 m	0 m	GROUTED 3/4 BENTONITE HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use
------------------------	----------

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
-----------------	-----------------------	------------	----------

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1558

Results of Well Yield Testing

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

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind
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Hole Diameter

Depth From	Depth To	Diameter
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L.P. 706



31G56

GROUND WATER BRANCH

NOV 14 1961 N^o

ONTARIO WATER
RESOURCES COMMISSION

5900

UTM 18 1441735 E

5 50112370 N

Elev. 4 0320

WATER WELL RECORD

Basin 25 | Carlton

Township, Village, Town or City Nepean

Con. 2 RP Lot 14

Date completed 21 July 61
(day month year)

Address Jockville

Casing and Screen Record

Inside diameter of casing 5"
Total length of casing 26'
Type of screen _____
Length of screen _____
Depth to top of screen _____
Diameter of finished hole 5"

Pumping Test

Static level 6
Test-pumping rate 6 G.P.M.
Pumping level 18
Duration of test pumping 1/2 hr
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 35 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0</u>	<u>10</u>		
<u>hard pan</u>	<u>10</u>	<u>22</u>		
<u>limestone</u>	<u>22</u>	<u>55</u>	<u>5-3</u>	<u>fresh</u>

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

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

Drilling or Boring Firm B S DAPHS

Address PORT KENNEDY

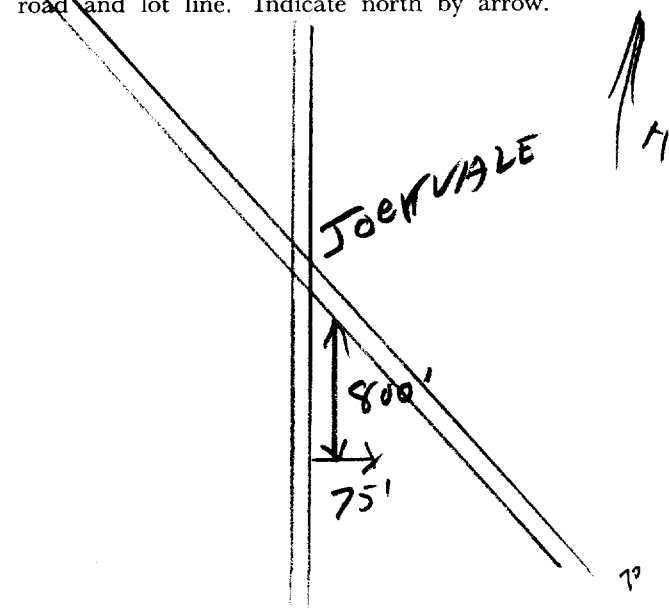
Licence Number 244

Name of Driller or Borer _____

Address _____
Date Nov 8/61
B S DAPHS
(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 118 4 41171615 E

R: 51 50 7121417P N

Elef 4 193210

Basin 1251 11 Carl

Con. 2 RF Part of Lot 14



31256

The Ontario Water Resources Commission Act

GROUND WATER BRANCH
15 No 5992
MAY 21 1963
ONTARIO WATER
RESOURCES COMMISSION

WATER WELL RECORD

Township, Village, Town or City Nepean

Date completed 11 Apr 63
(day month year)

ress. 934 Kirkwood Ave
Ottawa

Casing and Screen Record

Inside diameter of casing 5"
Total length of casing 45'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Pumping Test

Static level 14'
Test-pumping rate 10 G.P.M.
Pumping level 14'
Duration of test pumping 3 hrs
Water clear or cloudy at end of test cloudy
Recommended pumping rate 10 G.P.M.
with pump setting of 30' feet below ground surface

Well Log

Overburden and Bedrock Record

clay
boulders & hardpan
gravel

From
ft.

To
ft.

Depth(s) at
which water(s)
found

Kind of water
(fresh, salty,
sulphur)

0 25
25 40
40 45

45 fresh

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
Supply

Address 1243 Heron Rd
Ottawa

Licence Number 976

Name of Driller or Borer S Huff

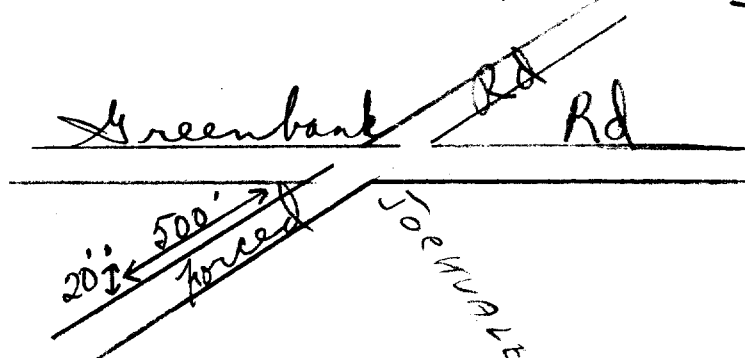
Address

Date Apr 11 1963

Halter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



20



31G5b

WATER RESOURCES
DIVISION

15 No

DEC 14 1966

5993

UTM 11812 44117110E

5R 501124010N

The Ontario Water Resources Commission Act

Elev. 4R 0320

WATER WELL RECORD

Basin 25111

Carl

Township, Village, Town or City

Nepean

Con. 2 RF

Lot 14

Date completed

9

Aug

1966

507 Fulton Ave
Ottawa

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"

Total length of casing 45'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Static level 15'

Test-pumping rate 5 G.P.M.

Pumping level 57

Duration of test pumping 1 hr

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 65' 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)

clay + boulders

0'

18'

72

fresh

hardpan

18

40

limestone

40

74

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

new house

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

Drilling or Boring Firm Capital Water Supply

Address 1243 14 Ashford Dr

Licence Number 2158

Name of Driller or Borer H Mains

Address

Date Aug 10

Walter Xavonagh
(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.

Country Rd #1

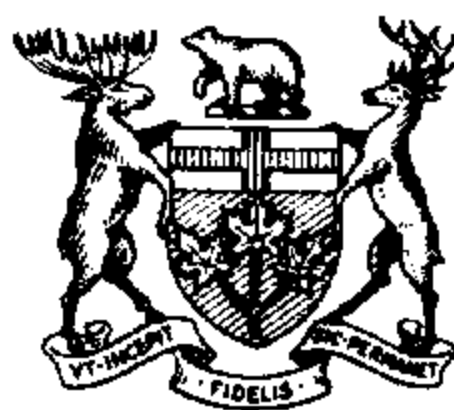
1 mi
30'

UTM 18 2 441 1813 10 E

5 R 50 11 191810 N

Elev. 4 R 0305

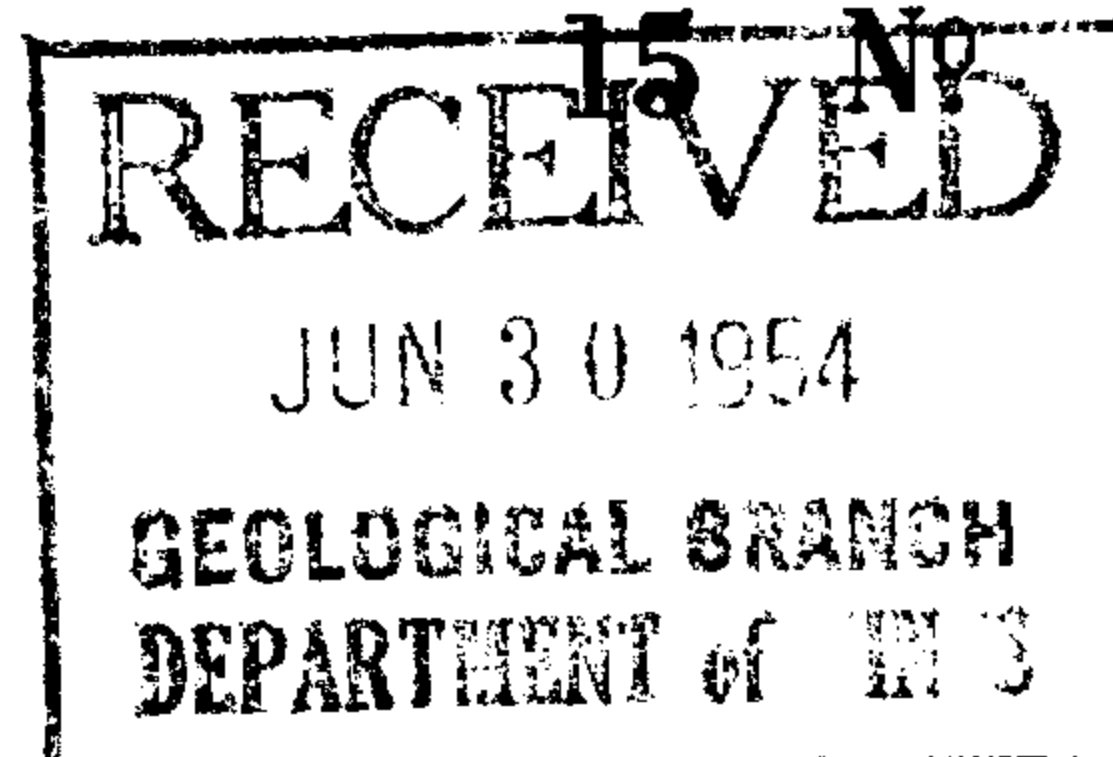
Side Front
Basin 25
Lot 13



ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario



6043

Water Well Record

County or Territorial District Carleton Township, Village, Town or City Nepean
Con... 3 HP Lot 13 Road Number (if in Village, Town or City) 7
Owner [redacted] Address Jockville
Date Completed 15 Feb 54 Cost of Well (excluding pump) [blank]
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>5"</u>	Date <u>15 Feb 54</u>
Length(s) of casing(s) <u>23'</u>	Static level <u>10-12 ft</u>
Type of screen	Pumping level <u>14 ft</u>
Length of screen	Pumping rate <u>500 GPH</u>
Distance from top of screen to ground level	Duration of test <u>25 min</u>
Is well a gravel-wall type?	Distance from cylinder or bowls to ground level

Water Record

Kind (fresh or mineral) <u>fresh</u>	Depth(s) to Water Horizon(s) <u>52-65</u>	Kind of Water <u>fresh</u>	No. of Feet Water Rises <u>to 10-12 ft</u>
Quality (hard, soft, contains iron, sulphur, etc.) <u>hard</u>			
Appearance (clear, cloudy, coloured) <u>clear</u>			
For what purpose(s) is the water to be used? <u>stock, house</u>			
How far is well from possible source of contamination? <u>50 ft</u>			
What is the source of contamination? <u>Bara yard</u>			
Enclose a copy of any mineral analysis that has been made of water			

Well Log

Overburden and Bedrock Record

From

To

0 ft.

19 ft.

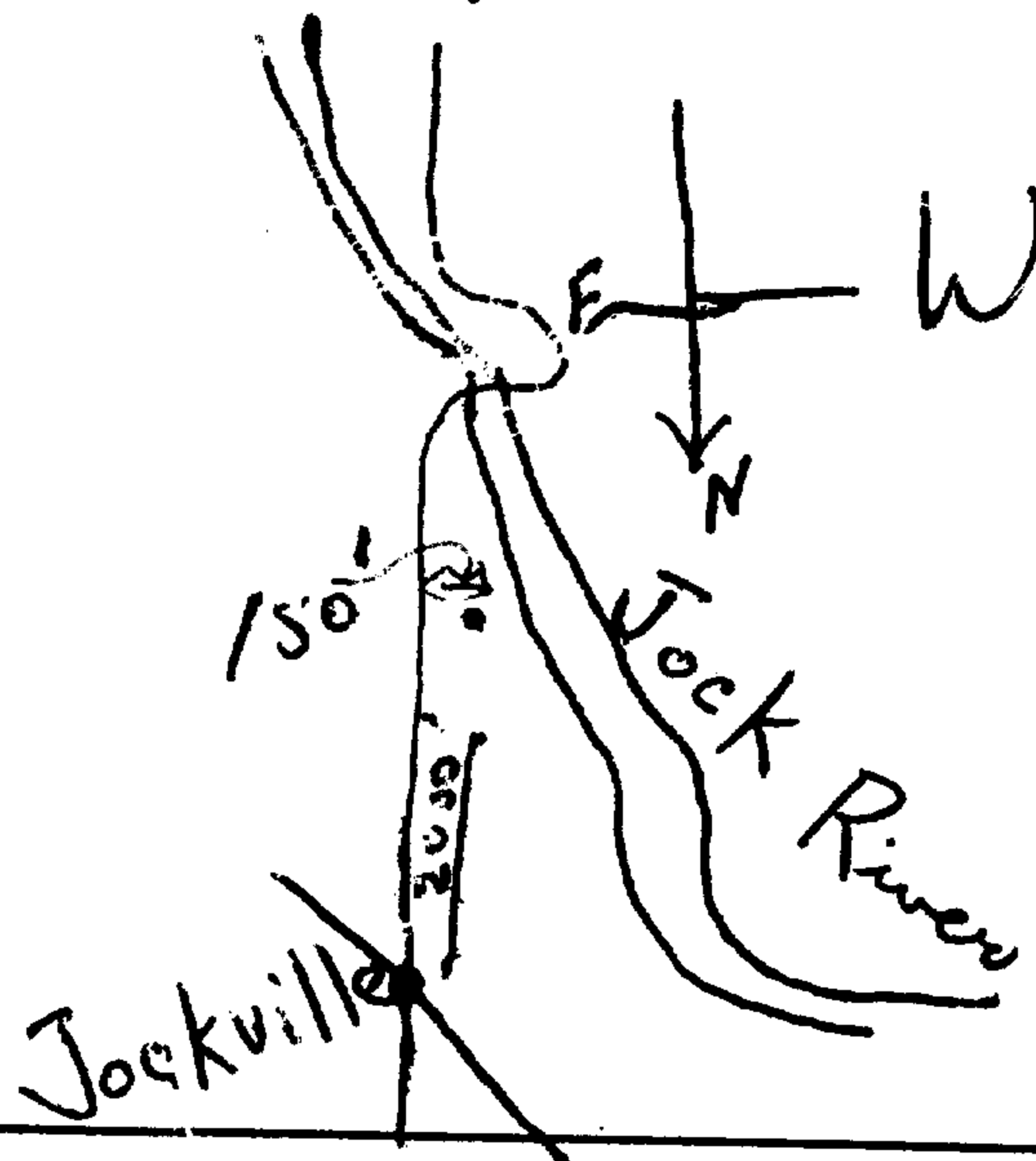
hard pan & boulders
sandy limestone

19

68

Location of Well

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



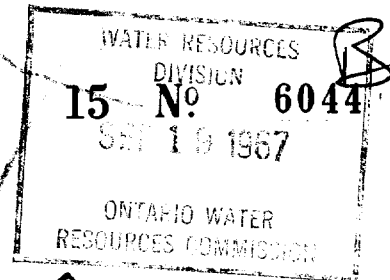
Situation: Is well on upland, in valley, or on hillside? valley
Drilling Firm [blank]
Address [blank]
Name of Driller Bent Sparks Address [blank]
Date Feb 16/54 Licence Number 420

Bent Sparks
Signature of Licensee

UTM 11812 44114510 E



31656



545 R 501281710 N

The Ontario Water Resources Commission Act

Elev. 4 B 031210

WATER WELL RECORD

Basin 251 1 Charleton

Township, Village, Town or City

Napan

Con. 3 RF Lot 15

Date completed 31 (day) July (month) 1967 (year)

Address Shoodroffe Ave

Casing and Screen Record

Inside diameter of casing 5"
Total length of casing 34'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Pumping Test

Static level flowing 10' OUTFLOWING
Test-pumping rate 10 G.P.M.
Pumping level 10'
Duration of test pumping 2 hrs
Water clear or cloudy at end of test cloudy
Recommended pumping rate 5 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>clay with boulders</u>	<u>0'</u>	<u>12'</u>	<u>215'</u>	<u>fresh</u>
<u>sand & boulders</u>	<u>12'</u>	<u>29'</u>		
<u>limestone</u>	<u>29'</u>	<u>200'</u>		
<u>sandstone</u>	<u>200'</u>	<u>217'</u>		

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

new house

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

Drilling or Boring Firm

Capital Water Supply Ltd

Address

14 Ashford Ave
Ottawa 6 Ont

Licence Number

2381

Name of Driller or Borer

M Xavanagh

Address

Date

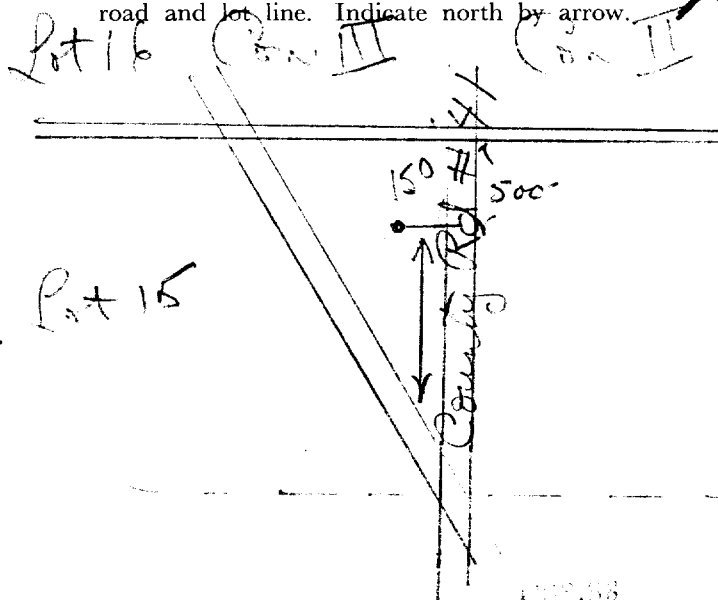
July 31, 1967

(Signature of Licensed Drilling or Boring Contractor)

Walter Xavanagh

Location of Well

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



UTM 118 2 44115160 E



31G56

15

No

6045

S R 50126810 N

The Ontario Water Resources Commission Act

Elev. 4 R 03210

WATER WELL RECORD

Basin 25 4 Carleton

Township, Village, Town or City Nepean

Con. 3 R F Lot 15

Date completed 11 Sept 1967

Address

Jockvale Ont.

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 35'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Pumping Test

Static level 18'

Test-pumping rate 10 G.P.M.

Pumping level 60

Duration of test pumping 48 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 75' 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

clay with small boulders

limestone

0

8

8

32

32

108

106

FRESH

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm

Capital Water Supply Ltd

Address 14 Ashford Dr Ottawa 6 Ont

Licence Number 2381

Name of Driller or Borer A Mainis

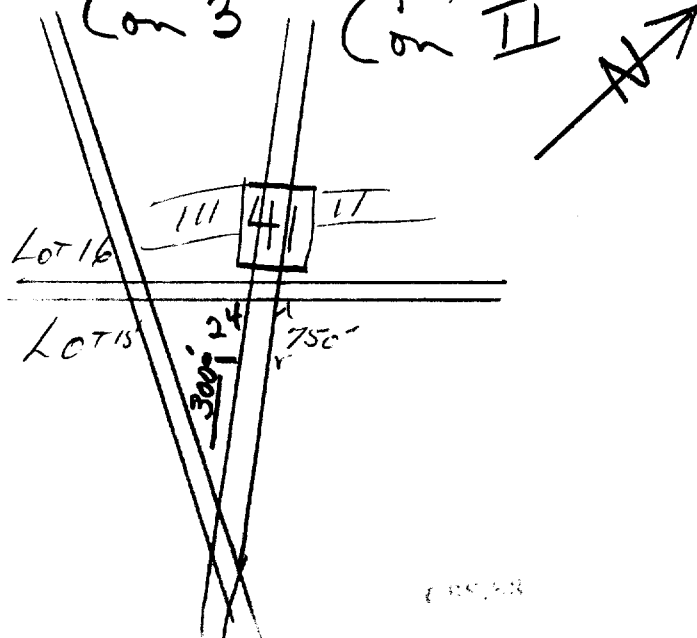
Address

Date Sept 11 1967

Signature of Licensed Drilling or Boring Contractor Walter Xavanagh

Location of Well

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



CON. II
 R.F.
 2413
 1509677
 SEP 17 1968
 3 9
 The Ontario Water Resources Commission Act
 ONTARIO WATER RESOURCES COMMISSION
 118-441200
 4-150112450
 ELEV. 40318
 Basin 201 Carleton
 County or District
 Con. TLRF Lot #14
 Township, Village, Town or City Nepean
 Date completed 22 July 1968
 (day month year)
 9 Majestic Dr. Apt 18 Ottawa

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 40'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 10'
 Test-pumping rate 5 G.P.M.
 Pumping level 60'
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test cloudy
 Recommended pumping rate 5 G.P.M.
 with pump setting of 75' feet below ground surface

Well Log

Overburden and Bedrock Record

clay & boulders
 hardpan
 limestone

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0'

34'

95'

fresh

34'

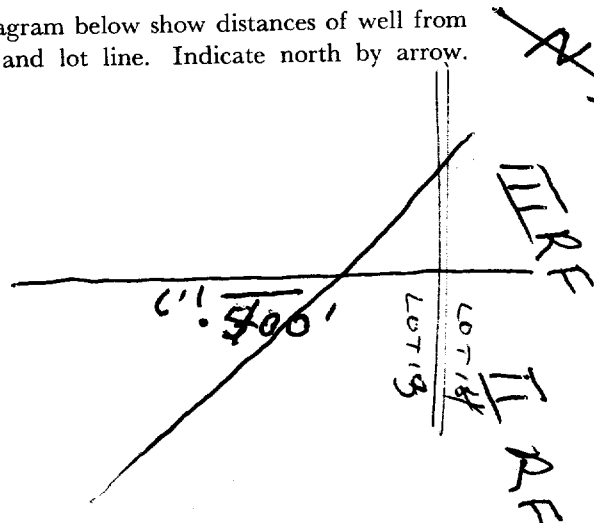
37'

37'

97'

Location of Well

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



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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr Ottawa 6

Licence Number 2857

Name of Driller or Borer H. Mains

Address

Date July 22 1968

Walter Xavanagh
(Signature of Licensed Drilling or Boring Contractor)



The Ontario Water Resources Commission Act

WATER WELL RECORD

316/56

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

(11)

1512013

MUNICIPALITY 151008

CONTRACTOR RF

C 03

COUNTY OR DISTRICT Carleton Place	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Appleton	CDN., BLOCK, TRACT, SURVEY, ETC. 3 RF	LOT 015
OWNER (SURNAME FIRST) Heinz Home Improvement	ADDRESS Box 295 Stittsville Ont.	DATE COMPLETED DAY 21 MO 08 YR 72	
UTM ZONE 18	EASTING 441208	NORTHING 5012845	RC 6
		ELEVATION 0315	RC 4
		BASIN CODE 26	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay	boulders	packed	0	6
grey	hardpan	gravel sand + boulders	packed	6	47
grey	gravel	sand	loose	47	51
This is a gravel well					

31	090860513	09072141128	005121128
32			

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/4	STEEL	12	0
06	GALVANIZED		51
	CONCRETE		
	OPEN HOLE		
17-18	STEEL	19	20-23
	GALVANIZED		
	CONCRETE		
	OPEN HOLE		
24-25	STEEL	26	27-30
	GALVANIZED		
	CONCRETE		
	OPEN HOLE		

61 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	

71 PUMPING TEST

1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10 PUMPING RATE 0015 GPM	11-14 DURATION OF PUMPING 01 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	22-24	15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37
005 FEET	025 FEET	025 FEET 025 FEET 025 FEET 025 FEET
IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SET AT	42 WATER AT END OF TEST
	GPM	FEET
RECOMMENDED PUMP TYPE <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 025 FEET	43-45 RECOMMENDED PUMPING RATE 0005 GPM
50-53	000.8 GPM/FT. SPECIFIC CAPACITY	

54 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
55-56 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
57 METHOD OF DRILLING	1 <input type="checkbox"/> CABLE TOOL 6 <input type="checkbox"/> BORING 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 7 <input type="checkbox"/> DIAMOND 3 <input type="checkbox"/> ROTARY (REVERSE) 8 <input type="checkbox"/> JETTING 4 <input type="checkbox"/> ROTARY (AIR) 9 <input type="checkbox"/> DRIVING 5 <input checked="" type="checkbox"/> AIR PERCUSSION

LOCATION OF WELL

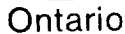
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

DRILLERS REMARKS:

NAME OF WELL CONTRACTOR Capital Water Supply Ltd.	LICENCE NUMBER 1558
ADDRESS Box 490 Stittsville Ont.	
NAME OF DRILLER OR FORER Shalter Karanagh	LICENCE NUMBER
SIGNATURE OF CONTRACTOR Shalter Karanagh	SUBMISSION DATE DAY 23 MO 8 YR 72

DATA SOURCE 1	58 CONTRACTOR 1558	59-62 DATE RECEIVED 041072	63-68
DATE OF INSPECTION	INSPECTOR		
REMARKS:			
			P K
			WI

OWRC COPY



WATER WELL RECORD

11

1516112

MUNICIP.
15008

CON.
RF

02

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON., BLOCK, TRACT, SURVEY, ETC.

LOT 27

DATE COMPLETED

DAY 14 MO. 02 YR. 2

ING 012360

ELEVATION
0320

BASIN CODE
26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

004920512

0235215

32

WATER RECORD

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

CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	12		0052-16 52
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	19		20-21
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	26		27-30

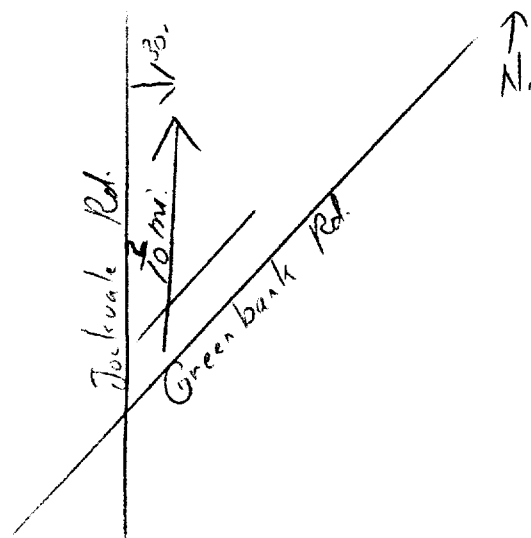
PLUGGING & SEALING RECORD

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	80	

PUMPING TEST METHOD	1 <input type="checkbox"/> PUMP		2 <input checked="" type="checkbox"/> BAILER		PUMPING RATE		E-14		DURATION OF PUMPING		17-18 MINS	
	10007				GPM		01		15-16 HOURS			
	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	
	008		050		050		050		050		050	
IF FLOWING GIVE RATE		30-41		PUMP INTAKE SET AT		FEET		WATER AT END OF TEST		42		
RECOMMENDED PUMP TYPE		GPM		RECOMMENDED PUMP SETTING		43-45		RECOMMENDED PUMP RATE		46-49		
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP				050		FEET		1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY		0005		
50-53		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

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

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	ADDRESS	
	NAME OF DRILLER OR BORER	LICENCE NUMBER
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE DAY <u>2</u> MO. <u>2</u> YR. <u>77</u>

OFFICE USE ONLY

DATA SOURCE	1	58	CONTRACTOR	3644	59-62	DATE RECEIVED	250877	63-68	8
DATE OF INSPECTION	10/5/79		INSPECTOR	Km		50877 J. P. P.			
REMARKS:							P		
							WI		



The Ontario Water Resources Act

31 G5b

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

11

1517943

MUNICIP.
15008

CON.
RF

03

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH CITY TOWN VILLAGE

CON. BLOCK TRACT SURVEY ETC

REF ID: A66142

Nepean

Conc. 3

3	R.F. III	1014
		14

445 Paul Anka Dr., Ottawa, Ontario

DATE COMPLETED 48-53
DAY 18 MO 03 YR 82

NG	RC	ELEVATION	RC	BASIN CODE
612599	4	0320	4	26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

31	0010605	0015205	003231114	0060815	0100215		
32							

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	50	
					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 71

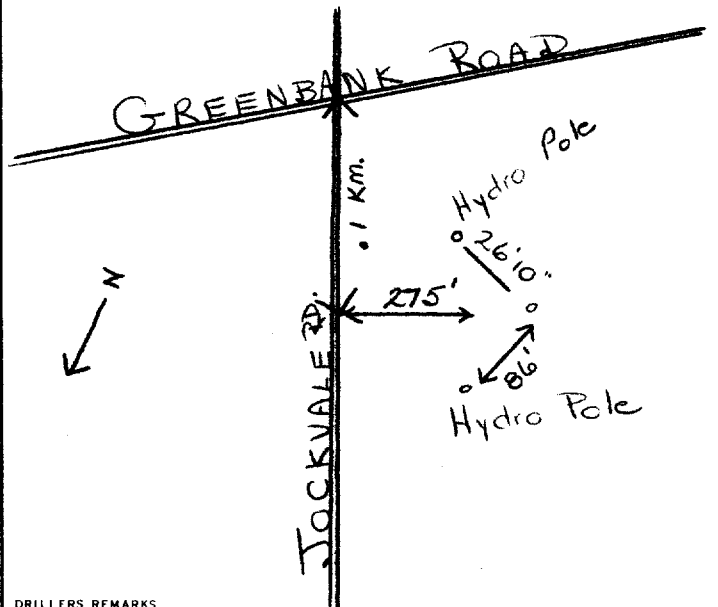
PUMPING TEST

71

PUMPING TEST METHOD		13		PUMPING RATE		11-14		DURATION OF PUMPING	
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER				0050		GPM		01 15-16 00 17-18 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					
005 FEET 025 FEET		025 FEET 025 FEET		025 FEET 025 FEET					
IF FLOWING, GIVE RATE		38-41 PUMP INTAKE SET AT		WATER AT END OF TEST		42			
		GPM		25 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 checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP		030 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

OFFICE USE ONLY

DATA SOURCE	58 1	CONTRACTOR 1558	59-62	DATE RECEIVED 05 10 82	63-68 80
DATE OF INSPECTION		INSPECTOR			
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 01

[illegible]

METHOD OF DRILLING

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

CONTRACTOR

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		
S. Miller				
SIGNATURE OF CONTRACTOR		SUBMISSION DATE		
<i>[Signature]</i>		DAY 31 MO 03 YR 85		



Ministry
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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1519006

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MUNICIP

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COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK, TRACT, SURVEY, ETC

LOT

OWNER (SURNAME FIRST)

ADDRESS

DATE COMPLETED

39 Dickson Cres. Ottawa K2H 6K4 DAY 14 MO 6 YR 84

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	28
grey	hardpan	gravel		28	36
grey	limestone			36	75

31 32

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
76	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	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	WALL THICKNESS INCHES
6 1/4	1/8
	0 38

61 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 METHOD		PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER		10 GPM	1 0 HOURS 0 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	
15 FEET	70 FEET	15 MINUTES 70 FEET	30 MINUTES 70 FEET
		45 MINUTES 70 FEET	60 MINUTES 70 FEET
IF FLOWING, GIVE RATE		PUMP INTAKE SET AT	
		WATER AT END OF TEST	
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING	
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP		1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY	

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 checked="" type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL 5 <input type="checkbox"/> OTHER	6 <input type="checkbox"/> COMMERCIAL 7 <input type="checkbox"/> MUNICIPAL 8 <input type="checkbox"/> PUBLIC SUPPLY 9 <input type="checkbox"/> COOLING OR AIR CONDITIONING 10 <input type="checkbox"/> NOT USED
METHOD OF DRILLING	
1 <input type="checkbox"/> CABLE TOOL 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input checked="" type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.	
DRILLER'S REMARKS:	

CONTRACTOR	
NAME OF WELL CONTRACTOR	LICENCE NUMBER
Sherry Mains Well Drilling	3644
ADDRESS	
326 Richmond Ont.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
Sherry Mains	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	DAY 14 MO 6 YR 84

OFFICE USE ONLY	
DATA SOURCE	CONTRACTOR
DATE OF INSPECTION	INSPECTOR
REMARKS	
03 07 84	

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.
-

Well Owner's Information and Location of Well Information

RR#/Street Number/Name 3265 Lockvale Road				City/Town/Village Ottawa		Site/Compartment/Block/Tract etc.	
GPS Reading	NAD 83	Zone 18	Easting 441829	Northing 5012867	Unit Make/Model Magellan	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____	

Log of Overburden and Bedrock Materials (see instructions)

[illegible]

Hole Diameter			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
0	7.6	20						Pump intake set at - (metres)	Static Level			
								Pumping rate - (litres/min)	1		1	
								Duration of pumping ____hrs + ____ min	2		2	
								Final water level end of pumping ____metres	3		3	
								Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
								Recommended pump depth. ____metres	5		5	
								Recommended pump rate. (litres/min)	10		10	
								If flowing give rate - (litres/min)	15		15	
									20		20	
									25		25	
								If pumping discontinued, give reason.	30		30	
									40		40	
									50		50	
									60		60	
Water Record												
Water found at ____ Metres / Kind of Water												
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur												
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals												
<input type="checkbox"/> Other: _____												
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur												
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals												
<input type="checkbox"/> Other: _____												
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur												
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals												
<input type="checkbox"/> Other: _____												
After test of well yield, water was												
<input type="checkbox"/> Clear and sediment free												
<input type="checkbox"/> Other, specify _____												
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From	To			
0	0.5	Bentonite	40 Kg.	
5	5.8	Bentonite	total	

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	<u>Auger</u>

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

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

Well Contractor/Technician Information	
Name of Well Contractor	Well Contractor's Licence No.
George Downing Estate Drilling Ltd	1844
Business Address (street name, number, city etc.)	
410 Main St. Grenville Sur La Rouge Qc J6V 1B0	
Name of Well Technician (last name, first name)	Well Technician's Licence No.
Downing, Bruce	72173
Signature of Technician/Contractor	Date Submitted
x <i>Bruce Downing</i>	2006/12/10

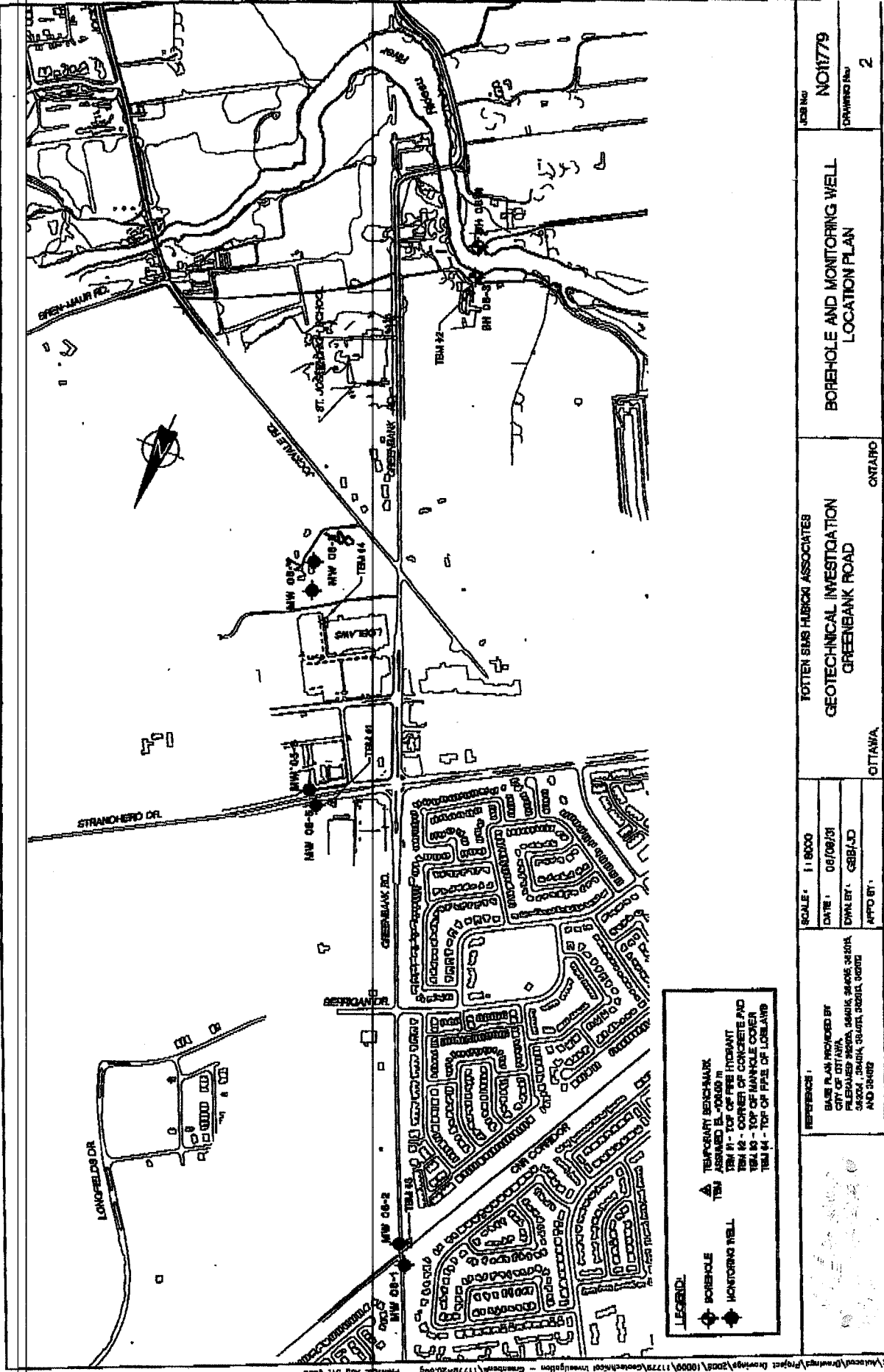
Location of Well	
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p> <p>Phase see attached site plan</p>	
<p>Audit No. z 50494</p>	<p>Date Well Completed 2006 10 21 <small>YYYY MM DD</small></p>
<p>Was the well owner's information package delivered? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Date Delivered 2006 10 21 <small>YYYY MM DD</small></p>

Ministry Use Only			
Data Source	Contractor		
Date Received	YYYY	MM	DD
NOV 07 2006			
Remarks	Well Record Number		

1844

Z 50494

NOV 07 2006



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

Well Owner's Information and Location of Well Information

[illegible]

RR#/Street Number/Name 3265 Sockvale Rd				City/Town/Village Manotik		Site/Compartment/Block/Tract etc. P/An NTR-2/503	
GPS Reading		NAD 83	Zone 18	Easting 441844	Northing 5012847	Unit Make/Model Socotack	Mode of Operation: N/A
						<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Differentiated, specify <input checked="" type="checkbox"/> Averaged	

Log of Overburden and Bedrock Materials (see instructions)

[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	10.66	91.44

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

After test of well yield, water was

☐ Clear and sediment free

☐ Other, specify _____

Chlorinated ☒ Yes ☐ No

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	Metres
			From	To
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			

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping _____hrs +_____ min	2		2	
Final water level end of pumping _____metres	3		3	
Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. _____metres	5		5	
Recommended pump rate. _____(litres/min)	10		10	
If flowing give rate - _____(litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From	To		
0	9.8	Clean Clay	9 cu. m.
9.8	10.66	Hole Plug Bentonite	12 Bags

Method of Construction			
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input checked="" 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 checked="" 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	<i>NOT in use</i>
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information			
Name of Well Contractor <i>Raymond Pumps + well</i>		Well Contractor's Licence No. <i>7260</i>	
Business Address (street name, number, city etc.) <i>147 main st. St-Albert OrT</i>			
Name of Well Technician (last name, first name) <i>Jacques Raymond</i>		Well Technician's Licence No. <i>T-0204</i>	
Signature of Technician/Contractor <i>[Signature]</i>		Date Submitted YYYY MM DD <i>2007 01 05</i>	

Location of Well

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

Diagram showing the location of the well relative to the road, lot line, and building. The well is located 128m from the road and 29m from the building. The driveway is labeled 32.65 and DRIVEWAY. The lot line is labeled Jockvale Rd.

Audit No.	z 52522	Date Well Completed	YYYY	MM	DD
			2007	01	03
Was the well owner's information package delivered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered	YYYY	MM	DD
			2007	01	03

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

Measurements recorded in: ☐ Metric ☒ Imperial

Page _____ of _____

Well Owner's Information

First Name <i>City of Ottawa</i>	Last Name / Organization <i>OTTAWA</i>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <i>110 Laurier Ave. West</i>	Municipality <i>Ottawa</i>	Province <i>Ontario</i>	Postal Code <i>K1P1J1</i>
Telephone No. (inc. area code) <i>6613 5802400</i>			

Well Location

Address of Well Location (Street Number/Name) <i>Riocan Drive</i>	Township <i>Nepean</i>	Lot <i>P4 Lot 14</i>	Concession <i>Con 2</i>
County/District/Municipality <i>Ottawa Region</i>	City/Town/Village <i>Ottawa</i>	Province <i>Ontario</i>	Postal Code <i>K1P1J1</i>
UTM Coordinates NAD <i>83</i> <i>184420425012801</i>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	<i>Bentonite</i>	<i>Hole Plug 1 1/2 Bag</i>		<i>0 35 Ft</i>
	<i>Abandoned 1 1/4 inch diam Bore hole to 35 Ft depth</i>			
	<i>Serial No. BH-08-49</i>			

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)

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

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	
				<input type="checkbox"/> Water Supply
				<input type="checkbox"/> Replacement Well
				<input type="checkbox"/> Test Hole
				<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well
				<input type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)
				<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality
				<input checked="" type="checkbox"/> Abandoned, other, specify <i>not use</i>
				<input type="checkbox"/> Other, specify _____

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

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor <i>Raymond Pump & Well</i>	Well Contractor's Licence No. <i>7260</i>		
Business Address (Street Number/Name) <i>Box 18 147, main st, St-Albert</i>	Municipality <i>Nation</i>		
Province <i>Ontario</i>	Postal Code <i>K0A3L0</i>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <i>613 9872399</i>	Name of Well Technician (Last Name, First Name) <i>RAYMOND PUMP</i>		
Well Technician's Licence No. <i>0264</i>	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted <i>20100105</i>	

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

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered <i>20100105</i> Date Work Completed <i>20100105</i>
Ministry Use Only Audit No. <i>2099949</i> FEB 02 2010 Received	

Measurements recorded in: ☐ Metric ☒ Imperial

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Well Owner's Information

First Name <i>City of</i>	Last Name / Organization <i>Ottawa</i>	E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <i>110 Laurier Ave. West</i>	Municipality <i>Ottawa</i>	Province <i>Ontario</i>	Postal Code <i>K1P5</i>	Telephone No. (inc. area code) <i>166135802400</i>

Well Location

Address of Well Location (Street Number/Name) <i>Future Chapman Mills Drive</i>			Township <i>Nepean</i>		Lot <i>Pt Lot 14</i>	Concession <i>Con 2</i>	<i>Rideau Front</i>
County/District/Municipality <i>Ottawa Region</i>			City/Town/Village <i>Ottawa</i>		Province Ontario		Postal Code <i>K1P1J1</i>
UTM Coordinates	Zone	Easting	Northing		Municipal Plan and Sublot Number		Other
NAD	83	<i>18442002</i>	<i>5012868</i>				

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
	Bentonite	Hole Plug	1 $\frac{3}{4}$ Bag $\frac{7}{8}$	0	35 Ft
	Abandoned 1 $\frac{1}{4}$ inch diam. Test hole				
	Serial No. BH-08-42B				

Annular Space

Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To		

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To

Status of Well

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned,
			From	To	

Construction Record - Screen

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

Water Details

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

Hole Diameter

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

Well Contractor and Well Technician Information

Business Name of Well Contractor		Well Contractor's Licence No.
Raymond Pump & Well		7260
Business Address (Street Number/Name)		Municipality
Box 18, 147 Main St. St-Albert		NATION
Province	Postal Code	Business E-mail Address

Ontario K0A3C0	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6139872399	RAYMOND JACQUES
Well Technician's Licence No.	Signature of Technician and/or Contractor Date Submitted
0264	<i>Raymond Jacques</i> 20100105

Results of Well Yield Testing

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

Map of Well Location

Please provide a map below following instructions on the back.

Future
Chapman Mills Drive

Comments:

Well owner's information package delivered	Date Package Delivered
	20100105
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Work Completed
	20100105

Ministry Use Only
Audit No. **Z 099950**
FEB 02 2010
Receiver

Measurements recorded in: ☐ Metric ☒ Imperial

Page _____ of _____

Well Owner's Information

First Name <i>City of</i>	Last Name / Organization <i>OTTOWA</i>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <i>110 Laurier Ave. West</i>	Municipality <i>OTTOWA</i>	Province <i>Ontario</i>	Postal Code <i>K1P 1J1</i>
Telephone No. (inc. area code) <i>613 580 2400</i>			

Well Location

Address of Well Location (Street Number/Name) <i>Future Chapman Mills Drive</i>	Township <i>Nepean</i>	Lot <i>Pt of Lot 14</i>	Concession <i>Con 2 Front</i>
County/District/Municipality <i>OTTOWA Region</i>	City/Town/Village <i>OTTOWA</i>	Province <i>Ontario</i>	Postal Code <i>K1P 1J1</i>
UTM Coordinates NAD <i>83</i> Zone <i>18</i> Easting <i>442004</i> Northing <i>5012869</i>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	<i>Bentonite</i>	<i>Hole Plug</i>	<i>2 Bags 3/8</i>	<i>0</i>	<i>38 Ft</i>
	<i>Abandoned 1 1/4 inch diam Test hole</i>				
	<i>Serial NO = BH-08-42A</i>				

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
		Volume Placed (m³/ft³)

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	

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

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor <i>Raymond Pump & Well</i>		Well Contractor's Licence No. <i>260</i>	
Business Address (Street Number/Name) <i>Box 18, 147 main st, St-Albert</i>		Municipality <i>NATION</i>	
Province <i>Ontario</i>	Postal Code <i>K0A 3C0</i>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <i>613 987 2399</i>		Name of Well Technician (Last Name, First Name) <i>Raymond Jacques</i>	
Well Technician's Licence No. <i>0264</i>		Signature of Technician and/or Contractor <i>Raymond</i>	
		Date Submitted <i>20100105</i>	

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

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered <i>20100105</i> Date Work Completed <i>20100105</i>
Ministry Use Only Audit No. <i>2099951</i> FEB 02 2010 Received	

Measurements recorded in: ☐ Metric ☒ Imperial

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Well Owner's Information

First Name <i>City of</i>	Last Name / Organization <i>Ottawa</i>	E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <i>110 LAURIER Ave West</i>	Municipality <i>Ottawa</i>	Province <i>Ontario</i>	Postal Code <i>K1P5 1G6</i>	Telephone No. (inc. area code) <i>613 580 2400</i>

Well Location

Address of Well Location (Street Number/Name) <i>Future Chapman mills drive</i>		Township <i>Nepean</i>	Lot <i>Pt of Lot 14</i>	Concession <i>Con 2</i>	<i>Rideau Front</i>
County/District/Municipality <i>Ottawa Region</i>		City/Town/Village <i>Ottawa</i>	Province Ontario		
Postal Code 		Municipal Plan and Sublot Number		Other	
UTM Coordinates	Zone	Easting	Northing		
NAD	8 3	18441906	5012870		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
			Bentonite Hole Plug 2 Bag $\frac{3}{8}$	0	40Ft
			Abandoned $1\frac{1}{2}$ inch diam Test hole		
			Serial No. = BH-08-50		

Annular Space

Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To		

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☒ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, specify
NOT in use
☐ Other, specify

Construction Record - Screen

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

Water Details

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

Hole Diameter

Depth (m/ft)		Diameter (cm/in)
From	To	

Well Contractor and Well Technician Information

Business Name of Well Contractor <i>Raymond Pump & Well</i>		Well Contractor's Licence No. <i>7 2 6 0</i>	
Business Address (Street Number/Name) <i>Box 18, 147 Main St, St-Albert</i>		Municipality <i>Nation</i>	
Province <i>Ontario</i>	Postal Code <i>K0A 3C0</i>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <i>613 987 2399</i>		Name of Well Technician (Last Name, First Name) <i>RAYMOND JACQUES</i>	
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted

Results of Well Yield Testing

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

Map of Well Location

Please provide a map below following instructions on the back.

~~X~~ Future Chapman Mills Drive
BH-08-50

Comments:

Well owner's information package delivered	Date Package Delivered 20100605
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Work Completed 20100605

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FEB 02 2010
Received

Measurements recorded in: ☒ Metric ☐ Imperial

Address of Well Location (Street Number/Name) 3380 Greenbank rd				Township		Lot		Concession	
County/District/Municipality				City/Town/Village Nepean				Province Ontario	
Postal Code K2J4H7				Municipal Plan and Sublot Number				Other	
UTM Coordinates NAD 83		Zone 18		Easting 441914		Northing 5012119			

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

[illegible]

Depth Set at (m/ft)		Annular Space	Volume Placed
From	To	Type of Sealant Used (Material and Type)	(m³/ft³)
.05	1.3m	Bentonite	.25m³

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

Construction Record - Casing					Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply
			From	To	
15.86	steel	.48	+ .5m	1.3m	
10.0	steel	.48	1.3m	unknown	

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

☐ Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify _____
☐ Other, specify _____

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

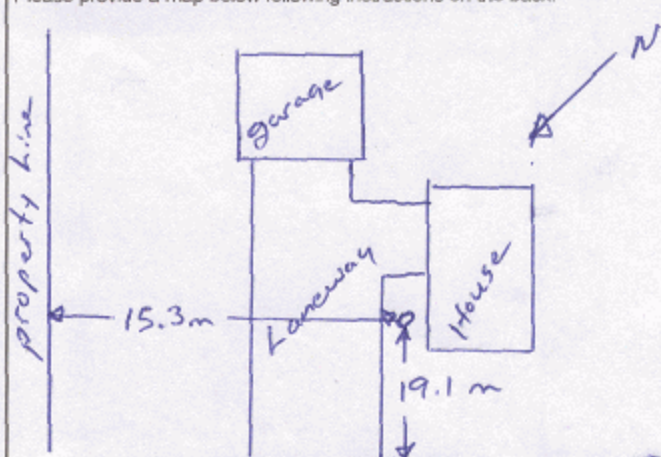
Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
H.O. Wright + Sons Ltd		6 3 5 7	
Business Address (Street Number/Name)		Municipality	
Box 129 2383 Church St North Gower			
Province	Postal Code	Business E-mail Address	
Ontario	K0A2T0		
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
6 1 3 4 8 9 3 3 7 2		Wilson, Scott	
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted
1 4 4 4	Scott Wilson		20110628

Results of Well Yield Testing

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

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only Audit No. z 131380 JUL 13 2011 Received
	Date Work Completed	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Y Y Y Y M M D D 20 Y Y 06 28	

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Alberta Professional Engineers and Geoscience Association
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

2014 – 2013

Carleton University

Department of Civil & Environmental Engineering
Research Engineer

2013 - 2009

Carleton University

Department of Civil & Environmental Engineering
Research Assistant and Teachers Assistant

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

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