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Phase I-Environmental Site Assessment

1104 Halton Terrace and 1150 Old Carp Road
Ottawa, Ontario

Prepared For

Novatech Engineering

March 18, 2019

Report: PE4576-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Novatech Engineering to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at 1104 Halton Terrace and 1150 Old Carp 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 has never been developed and was historically used as an agricultural field. Historical land use of the neighbouring properties was 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 currently vacant. 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 north, residential to the west and south, and commercial to the east. 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 Novatech Engineering, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 1104 Halton Terrace and 1150 Old Carp 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. Mark Bissett with Novatech Engineering. The head office is located at 200-240 Michael Cowpland Drive, Ottawa, Ontario. Mr. Bissett can be reached by telephone at (613) 254-9643.

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: 1104 Halton Terrace and 1150 Old Carp Road,
Ottawa, Ontario

Legal Description: Parts 1, 2, and 3 on Plan 4R20188 and Block 101 on
Plan 4M1280, in the City of Ottawa

Location: The site is located on the southwest corner of where
Carp Road transects with Halton Terrace, in the City
of Ottawa, Ontario. Refer to Figure 1 - Key Plan in
the Figures section following the text.

PIN: 04526-1109 and 04526-1306

Latitude and Longitude: 45°21' 25.97" N, 75° 56' 11.66" W

Site Description:

Configuration: Irregular

Area: 2.75 Hectares (approximately)

Zoning: Development Reserve Zone

Current Use: The subject site is currently vacant and undeveloped
land.

Services: The subject site is situated in an area where adjacent
lands are currently serviced by private wells and
sewage systems.

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

Based on an aerial photograph from 1976, the subject site has never been developed.

Fire Insurance Plans

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

City of Ottawa Street Directories

There are no city directories for the subject site and study area.

Chain of Title

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

Survey Plan and Plan of Subdivision

No survey plan or plan was available for review.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on March 11, 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 March 11, 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 March 12, 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 appears as agricultural land at this time. The surrounding lands appear as farmsteads and agricultural fields. March Road and Old Carp Road are present at this time. |
| 1991 | No significant changes are apparent to the subject site. Neighbouring lands appear unchanged from the previous photograph, with the exception of some soil disturbances occurring to the east, on a property across March Road. |
| 2002 | The subject site appears unchanged from the previous photograph. Pre-development activities are apparent on the adjacent properties to the east, west and south of the subject site. A residential development further south is present at this time. |
| 2011 | No significant changes are apparent to the subject site. Halton Terrace is present in this photograph. New residential developments can be seen to the east, west and south. Some commercial developments can also be seen to the east across March Road. |
| 2017 | The subject site and surrounding area appear unchanged from the previous photograph. |

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

Topographic Maps

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

Physiographic Maps

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

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of interbedded sandstone and dolomite, of the March Formation. The surficial geology in the western and eastern part of the site consists of exposed Paleozoic bedrock and offshore marine sediments, respectively, with a drift thickness ranging from 0 to 2 m, respectively.

Water Well Records

A Well Record search was conducted on March 11, 2019 for all drilled wells within 250 m of the subject site. The well record search returned eighteen (18) well records, all of which were domestic wells from the late 1960s to 2008. One domestic well was identified at the residence on the western portion of 1150 Old Carp Road. Copies of the well records have been included in Appendix 2.

Water Bodies

Shirley’s Brook is the closest body of water located approximately 325 m south of the Phase I Property.

Areas of Natural Significance

No areas of natural significance were identified in the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Novatech Engineering was contacted via email as part of this assessment. Novatech Engineering is the consultants representing the property owner, Village at the School Yard Inc., for future residential and commercial developments. The land had been used for agricultural purposes in the past and is now vacant. Novatech Engineering 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 12, 2019. Weather conditions were sunny with a temperature of approximately -3°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Site Features

The subject property is vacant and undeveloped land. At the time of the visit, the ground surface was covered in snow.

Site drainage consists primarily of infiltration. The site topography appeared to be somewhat at grade with Halton Terrace and Old Carp Road.

The regional topography slopes down in a north-easterly direction towards Shirley's Brook.

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 was observed on the subject property 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

There is one unutilized shed on the subject site.

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 - Old Carp Road, followed by vacant land;
- South - Halton Terrace, followed by residential dwellings;
- East - Halton Terrace, followed by vacant land and a stormwater management pond;
- West - Residential dwellings, followed by Dunollie Crescent.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I Property. 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 PE4576-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property has never been developed. 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 the information from the Geological Survey of Canada, the overburden thickness is estimated to be in the order of 0 to 2 m, which consists of exposed Paleozoic bedrock and offshore marine sediments. Bedrock consists of interbedded sandstone and dolomite of the March Formation.

Groundwater flow is interpreted to be in a north-easterly direction towards the Shirley's Brook.

Existing Buildings and Structures

An unutilized shed is located on the southwest corner of the Phase I Property.

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

There are no potable water wells on the subject site. Eighteen (18) domestic well records were identified within the study area, one of which was located on the adjacent property to the west.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of vacant land, residential dwellings and some commercial retailers.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, PCAs were not identified on the Phase I 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 Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there 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 Novatech Engineering to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at 1104 Halton Terrace and 1150 Old Carp 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 has never been developed and was historically used as an agricultural field. Historical land use of the neighbouring properties was 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 currently vacant. 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 north, residential to the west and south, and commercial to the east. 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 Novatech Engineering. Permission and notification from Novatech Engineering 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:

- Novatech Engineering
- 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 PE4576-1 – SITE PLAN

DRAWING PE4576-2 – SURROUNDING LAND USE PLAN

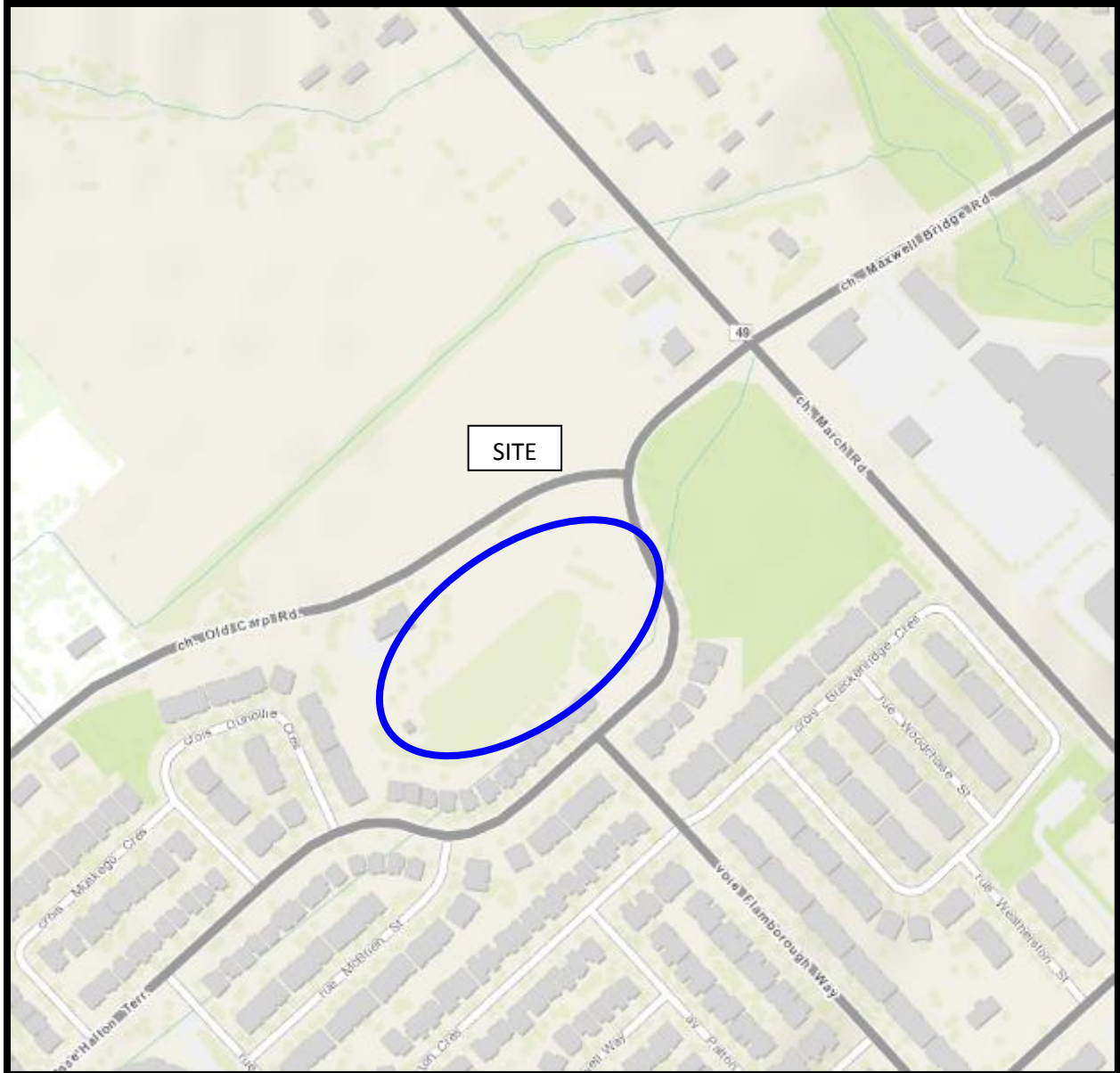


FIGURE 1
KEY PLAN

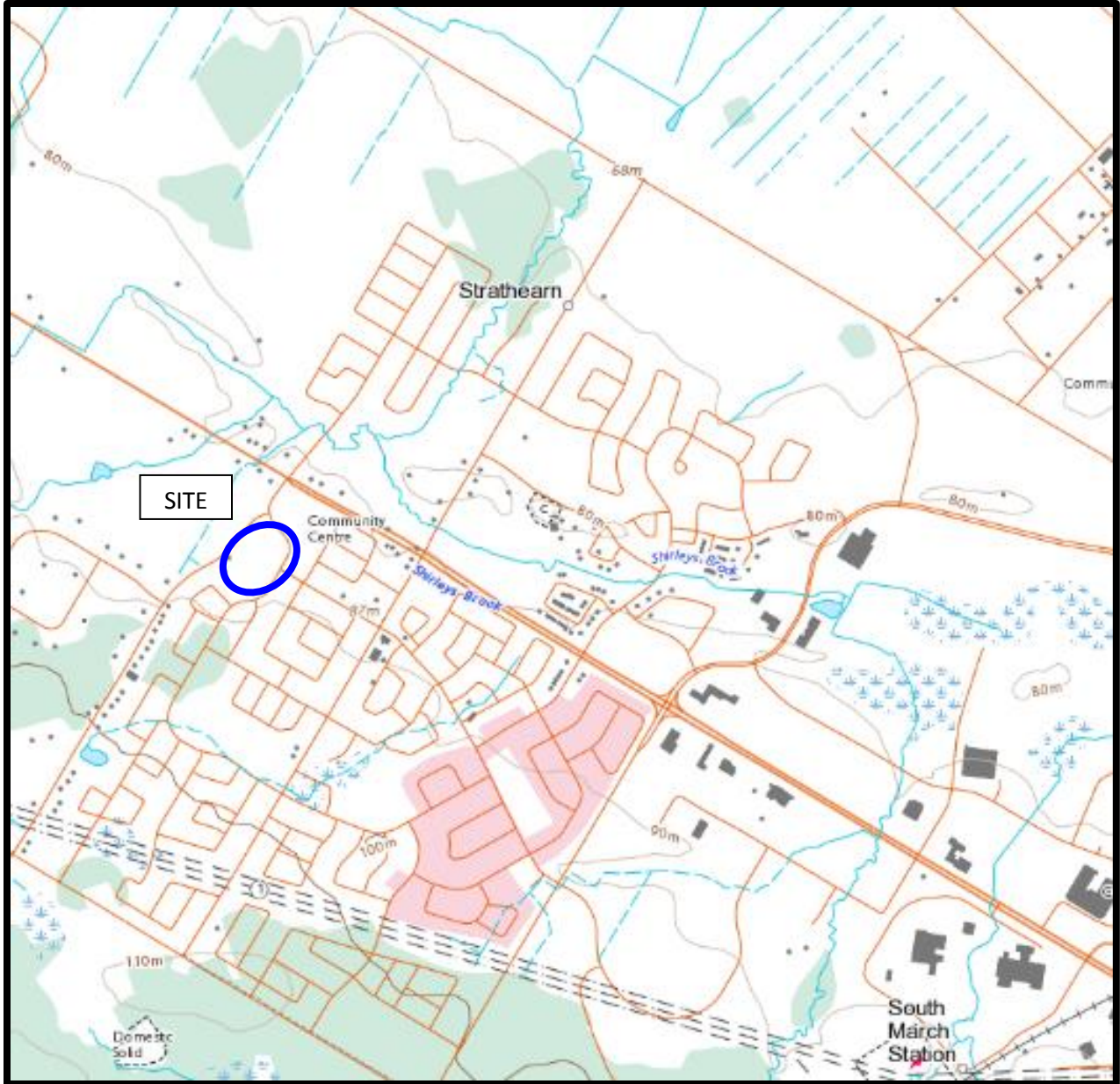
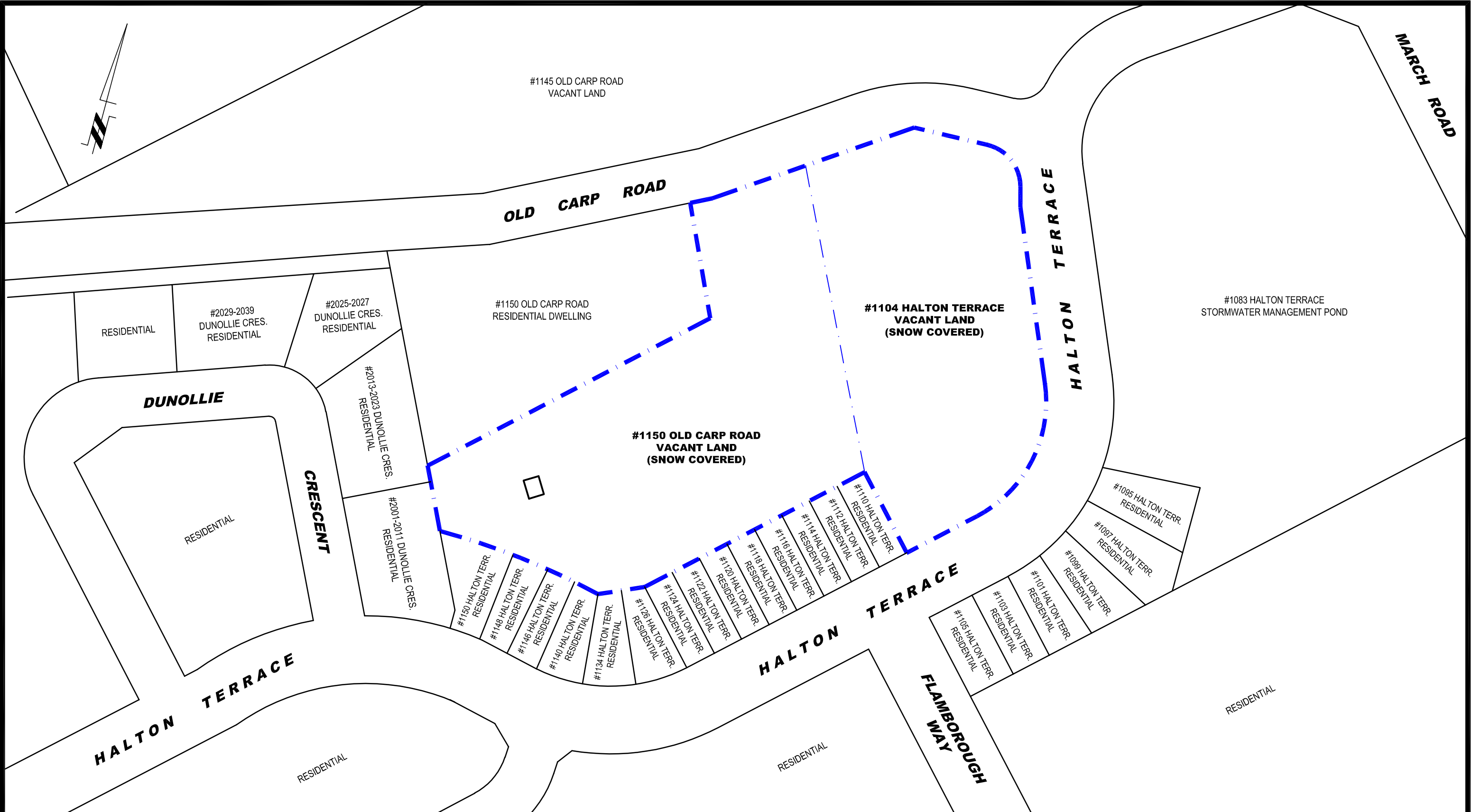


FIGURE 2
TOPOGRAPHIC MAP



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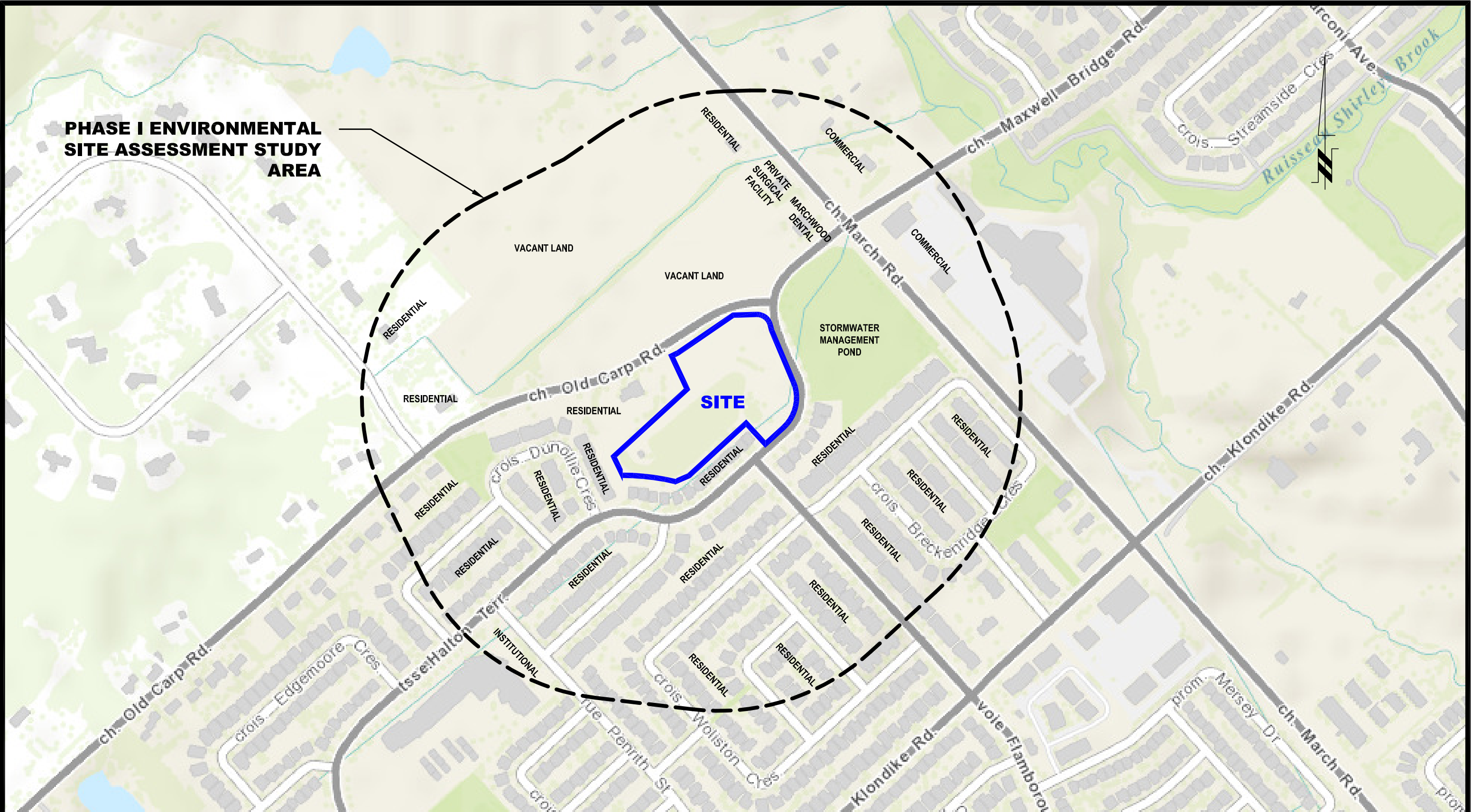
154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

NOVATECH ENGINEERING CONSULTANTS LTD.
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1104 HALTON TERRACE & 1150 OLD CARP ROAD
 OTTAWA, ONTARIO
 Title: **SITE PLAN**

Scale: 1:1250
 Drawn by: MPG
 Checked by: MW
 Approved by: MSD

Date: 03/2019
 Report No.: PE4576-1
PE4576-1
 Revision No.:



**PHASE I ENVIRONMENTAL
SITE ASSESSMENT STUDY
AREA**

SITE

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

OTTAWA,
Title:

NOVATECH ENGINEERING CONSULTANTS LTD.
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1104 HALTON TERRACE & 1150 OLD CARP ROAD
SURROUNDING LAND USE PLAN

ONTARIO

Scale:	1:4000
Drawn by:	MPG
Checked by:	MW
Approved by:	MSD

Date:	03/2019
Report No.:	PE4576-1
PE4576-2	
Revision No.:	

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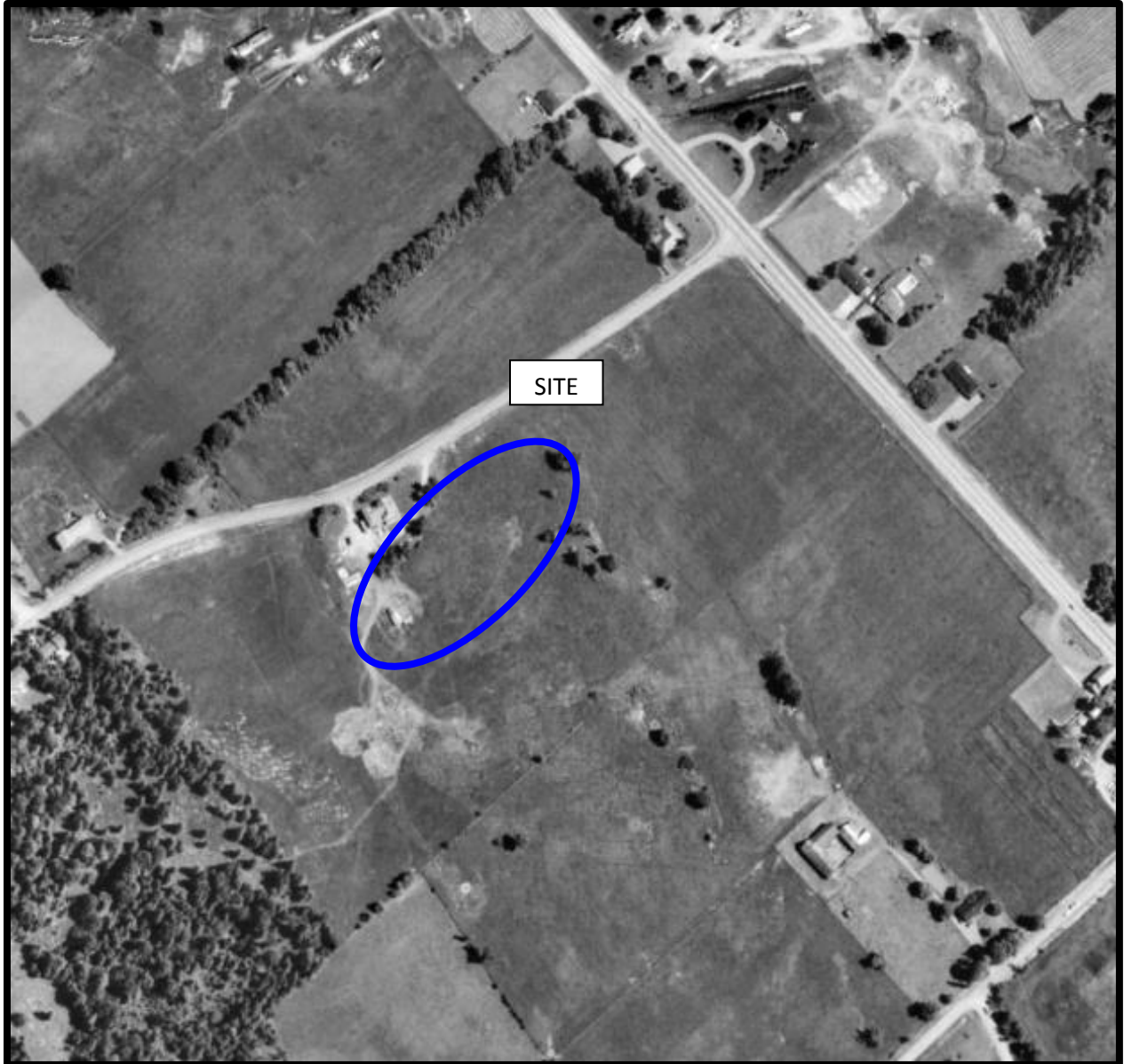
APPENDIX 1

AERIAL PHOTOGRAPHS

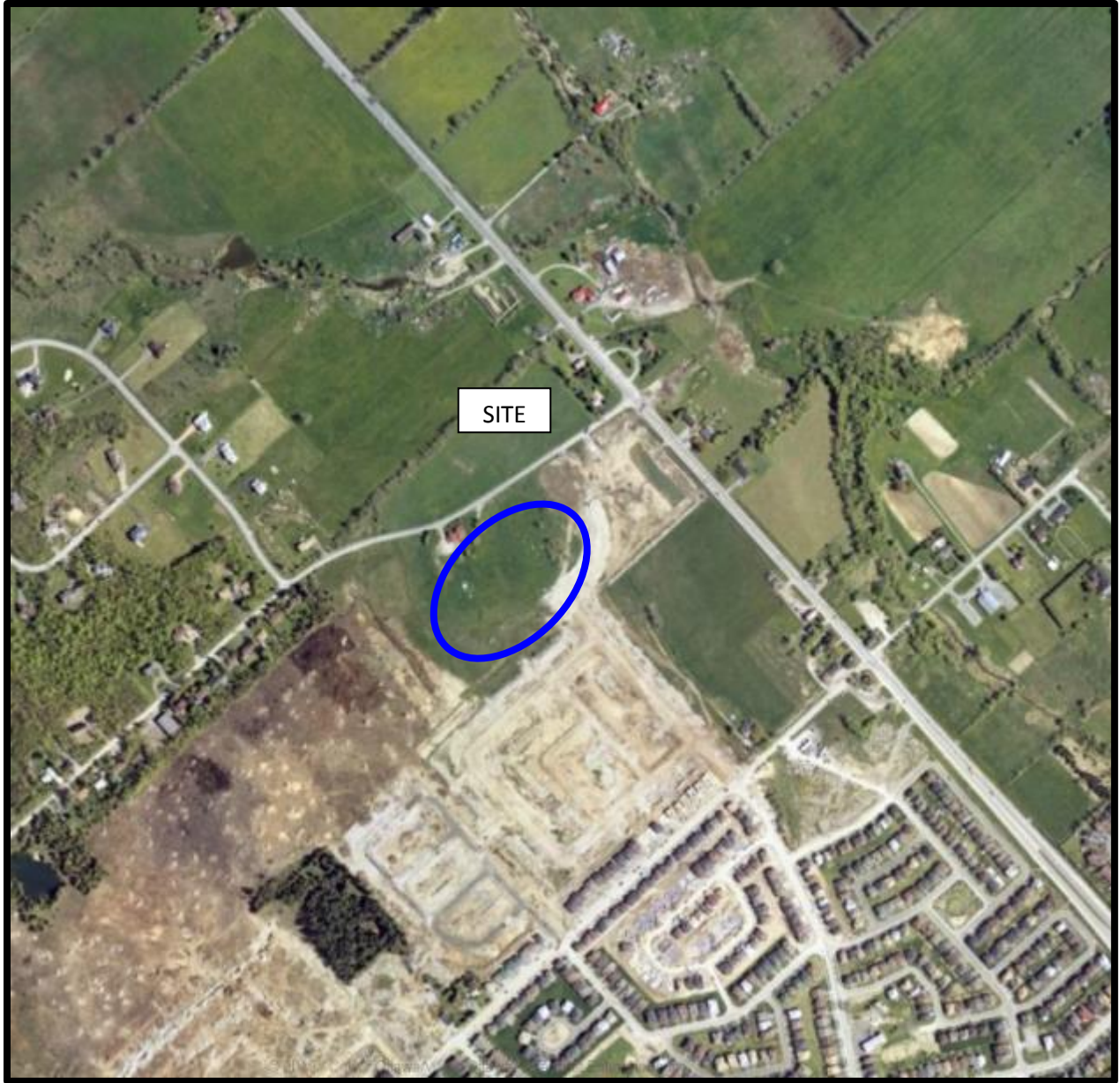
SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1976



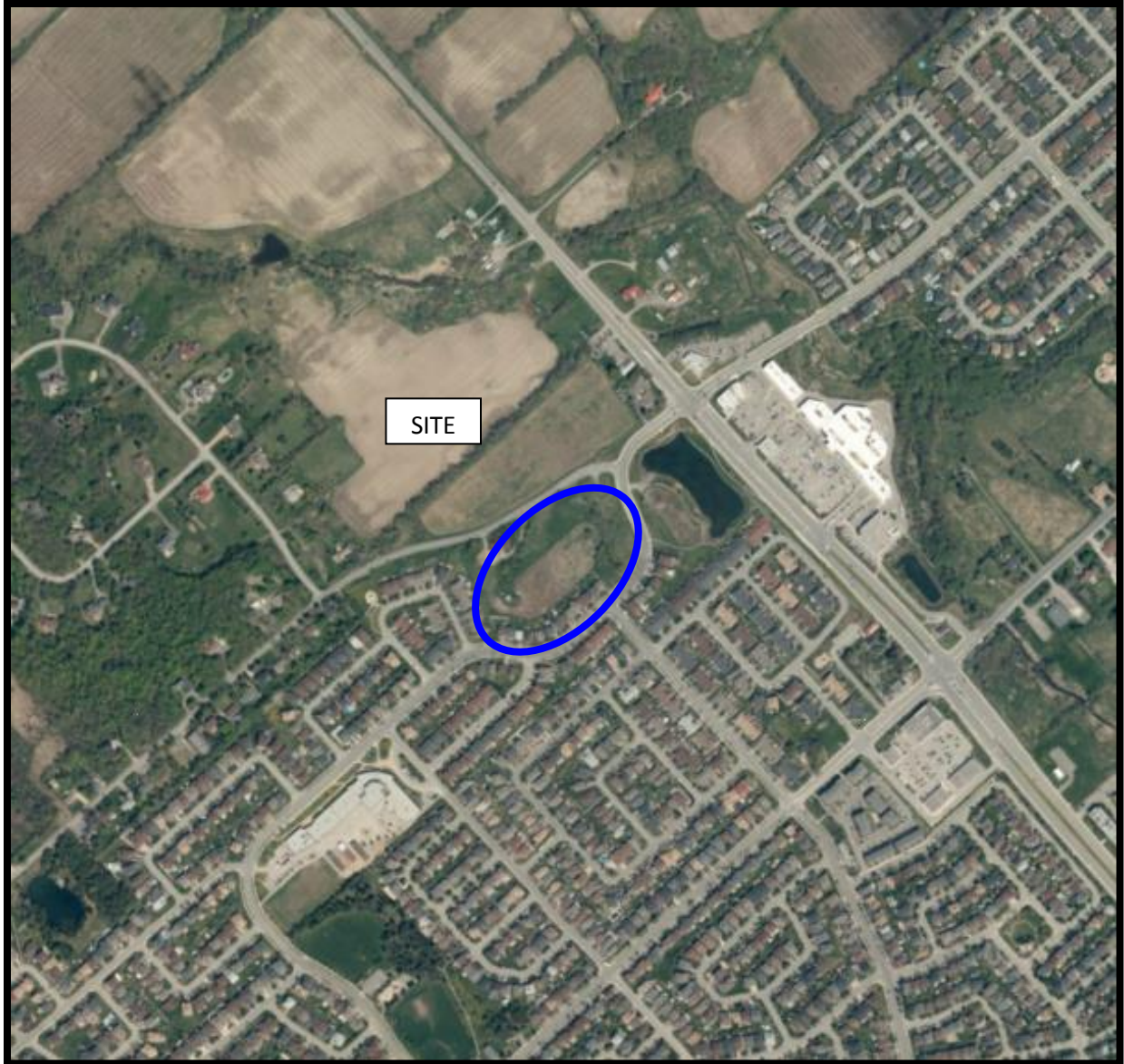
AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4576

1104 Halton Terrace and 1150 Old Carp Road, Ottawa, ON

March 12, 2019



Photograph 1. View of the subject site, taken from Old carp Road, looking east.



Photograph 2: View of the subject site, taken from Old Carp Road, looking south.

Site Photographs

PE4576

1104 Halton Terrace and 1150 Old Carp Road, Ottawa, ON

March 12, 2019



Photograph 3: View of the subject site, taken from Old Carp Road, looking west.



Photograph 4: View of the subject site, taken from Halton Terrace, looking west.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS



Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: mwitteman@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Your Project/Reference No. PE4576-1	Signature/Print /Name of Requester Mandy Witteman 		<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	

Request Parameters
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 1104 Halton Terrace and 1150 Old Carp Road, Ottawa ON (One Site /one project)
Present Property Owner(s) and Date(s) of Ownership Novatech Engineering
Previous Property Owner(s) and Date(s) of Ownership
Present/Previous Tenant(s), (if applicable)

Search Parameters	Specify Year(s) Requested
<i>Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.</i>	
Environmental concerns (General correspondence, occurrence reports, abatement)	all
Orders	all
Spills	all
Investigations/prosecutions > Owner AND tenant information must be provided	all
Waste Generator number/classes	all

Certificates of Approval > Proponent information must be provided		
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.		
	SD	Specify Year(s) Requested
air - emissions		1986-present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986-present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986-present
waste water - industrial discharges		1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-present
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste		1986-present
pesticides - licenses		1986-present

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

Mandy Witteman

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: March-12-19 11:53 AM
To: Mandy Witteman
Subject: RE: Search Records Request (PE4576)

Good morning 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,

Sarah



Sarah Quibell | Public Information Agent

Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-877-682-8772 | Fax: +1-416-231-6183 | E-Mail: squibell@tssa.org
www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: March 12, 2019 11:51 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Search Records Request (PE4576)

Good morning,

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

Halton Terrace: 1104, 1083, 1054,
Old Carp Road: 1150, 1145
March Rd: 895, 905, 830, 846, 886

Thank you

Cheers,

Mandy Witteman

patersongroup
Solution Oriented Engineering

154 Colonnade Road South
Ottawa - Ontario - K2E 7J5
Tel: (613) 226-7381
Fax: (613) 226-6344
Cell: (403)-921-1157
Email: mwitteman@patersongroup.ca

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March 11, 2019
File: PE4576-HLUI

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

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
151 Chapel Street
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.

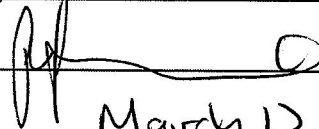
Name of Company/Property Owner:

Village At the Schooldyard Inc.

Name of Representative/Owner

Brian Sawarek

Signature of Representative/Owner

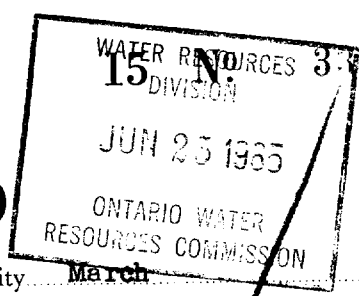


Date

March 12/19.



3165d



UTM 18 426510 E

5 R 5022940 The Ontario Water Resources Commission Act

Elev. 4 R 02610

WATER WELL RECORD

Basin 25 | Carleton

Township, Village, Town or City March

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

Address South March, Ont.

Casing and Screen Record

Inside diameter of casing 15' of 5"

Total length of casing 15'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

Pumping Test

Static level 7'

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

Pumping level 17'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 5 GPM G.P.M.

with pump setting of 25' feet below ground surface

Well Log

Water Record

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

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

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

Drilling or Boring Firm Blair Phillips Drilling Co. Ltd.

Address Ottawa

Licence Number 1815

Name of Driller or Borer J. Moore

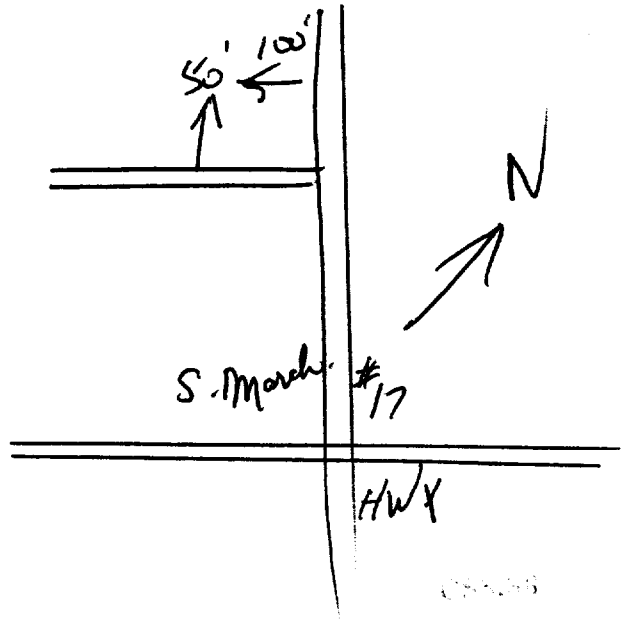
Address Kars, Ont.

Date 28 May 1965

[Signature]
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



388A



31G5d

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

UTM 18 42 61 43 10 E

Co. 5 R 50 2 3 1 10 5 N

Elev. 20 14 R 0 2 6 0

Basin 2 5 1 L 1 Carleton

Con 111 Lot 12

The Ontario Water Resources Commission Act

WATER WELL RECORD

Township, Village, Town or City March
Date completed 23 May 1963
(day month year)

Address 716 Edison Ave Ottawa

Casing and Screen Record

Inside diameter of casing 6 1/4"
Total length of casing 20'
Type of screen none
Length of screen —
Depth to top of screen —
Diameter of finished hole 6"

Pumping Test

Static level 15
Test-pumping rate 5 G.P.M.
Pumping level 40'
Duration of test pumping 1 hr
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 50' feet below ground surface

Well Log

Overburden and Bedrock Record

clay & broken rock
limestone
sandstone

Water Record

From ft.	To ft.	Depth (s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	12		
12	38		
38	60	60	fresh

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

house

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

Drilling or Boring Firm

McBean Water Supply Ltd.

Address 1532 Raven Ave
Ottawa, Ont.

Licence Number 1090

Name of Driller or Borer H. Scharf

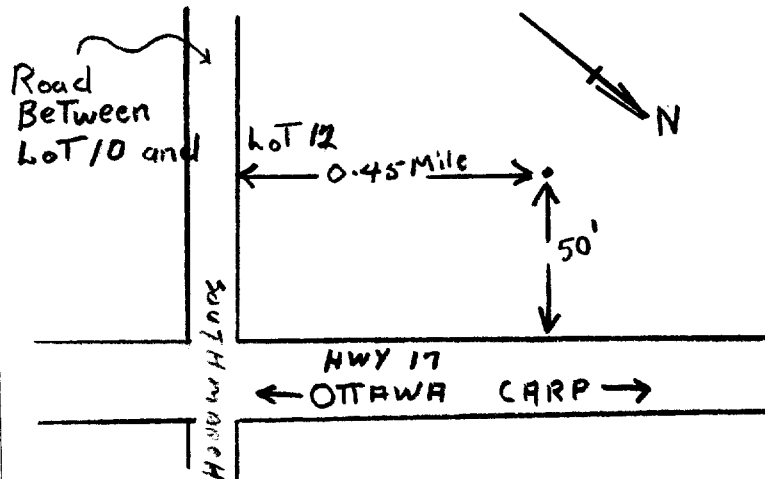
Address

Date May 23 / 63

(Signature of Licensed Drilling or Boring Contractor)
CD McLean

Location of Well

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





3165d

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

3117

UTM 18 4261610 E

05 R 50221920 N

The Ontario Water Resources Commission Act

Elev 4 R 02145

WATER WELL RECORD

Basin 25 | Carleton

Township, Village, Town or City March

Con. 4 Lot 11

Date completed 12 Nov 61
(day month year)

Address Britton Bay

Casing and Screen Record

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

Pumping Test

Static level 10'
Test-pumping rate 6 G.P.M.
Pumping level 14'
Duration of test pumping 1/2 hr
Water clear or cloudy at end of test clearing
Recommended pumping rate 5 G.P.M.
with pump setting of 30 feet below ground surface

Well Log

Water Record

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

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

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

Drilling or Boring Firm Ben & Sparkes

Address

Licence Number 244

Name of Driller or Borer Ben & Sparkes

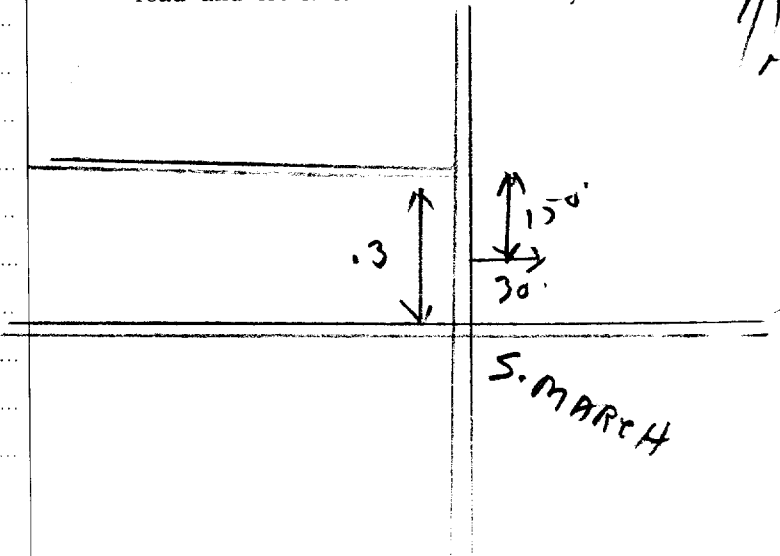
Address

Date Feb 7/62

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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





WATER WELL RECORD

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

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

11

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	LOT 25-27
OWNER (SURNAME FIRST) Marchmont Const.	ADDRESS South March	DATE COMPLETED DAY 04 MO. 08 YR. 69	
ZONE 18	EASTING 426480	NORTHING 5022800	RC. 4
		ELEVATION 0255	RC. 5
		BASIN CODE 25	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31	0065618	0084115
32		

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
188	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	FROM 0 TO 20
05	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		FROM 20 TO 2020
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		FROM 2020 TO 0084
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		FROM 0084 TO 2750

SCREEN

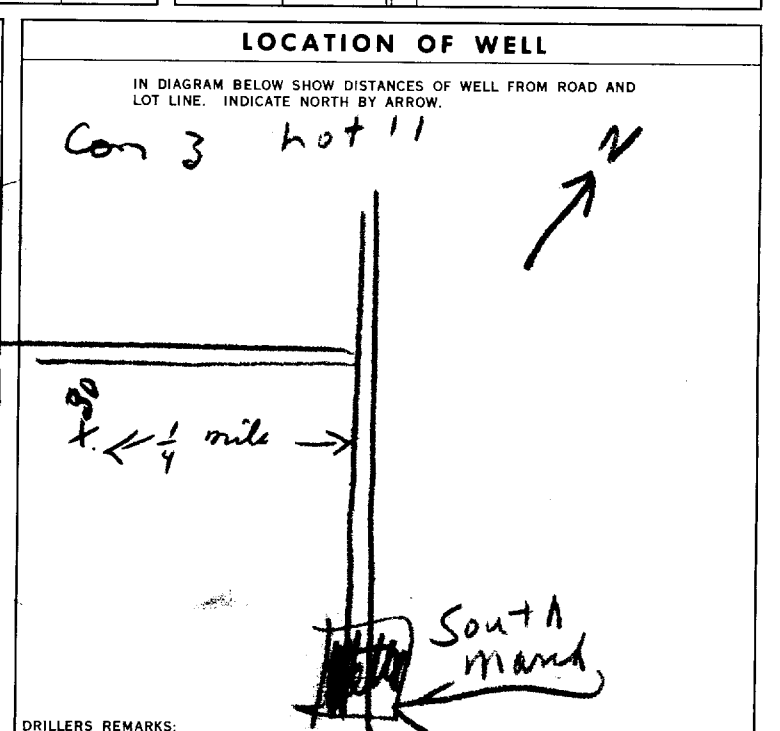
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

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



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

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

OFFICE USE ONLY

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



The Ontario Water Resources Commission Act WATER WELL RECORD

3165d

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

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

11 1511444 15000 08/07/71

DATE COMPLETED: DAY 07 MO 07 YR 71

NG 022880 RC 4 ELEVATION 0255 RC 5 BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31 0016205 0058118

32

41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
0058	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
05	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0021
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

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

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

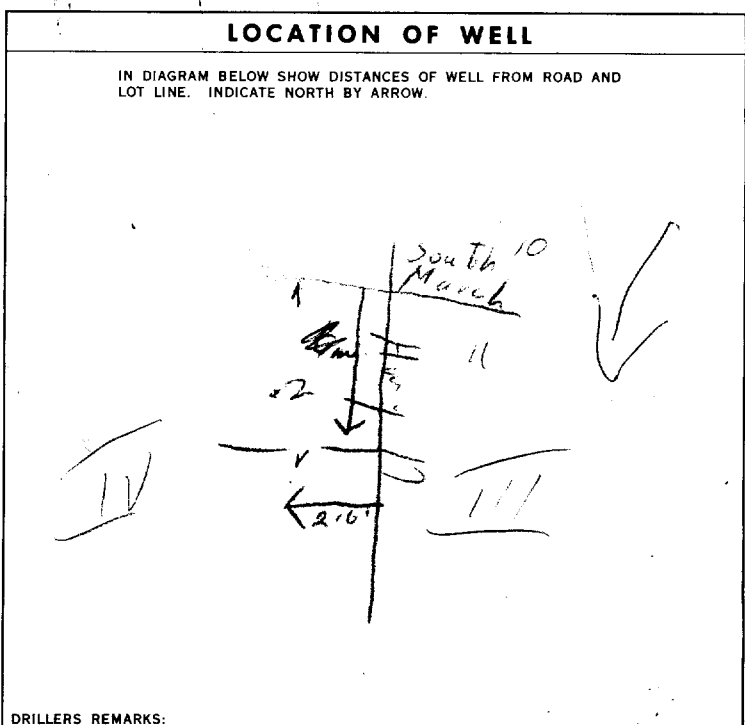
61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> TRAILER	0021 GPM.	01 00 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
006 FEET	015 FEET	15 MINUTES: 012 FEET 30 MINUTES: 015 FEET 45 MINUTES: 015 FEET 60 MINUTES: 015 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	020 FEET	0010 FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	020 FEET	0010 GPM.

50-53 002.3 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mann's Well Drilling LICENCE NUMBER: 3644
ADDRESS: Box 324 Richmond
NAME OF DRILLER OR BORER: Henry Mann LICENCE NUMBER: _____
SIGNATURE OF CONTRACTOR: Henry Mann SUBMISSION DATE: DAY 2 MO July YR 71

OFFICE USE ONLY

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



WATER WELL RECORD

319/5d

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

11

1512244

MUNICIP. 15006

CON. CON

103

COUNTY OR DISTRICT: **Carleton Place** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **March** CON. BLOCK TRACT SURVEY, ETC.: **Old Camp Rd. III** LOT: **11**

Richmond Ont. DATE COMPLETED: DAY **02** MO. **12** YR. **72**

NO. **022671** RC. **4** ELEVATION **290** RC. **4** BASIN CODE **26** JAN 12, 1975 **44**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	sandstone		whitish grey	0	62
Note: A. J. AAKROLA. New Owner.					

31 0062218

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 DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	0 20
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		20-25
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
10-13		
18-21		
26-29		

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 016 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

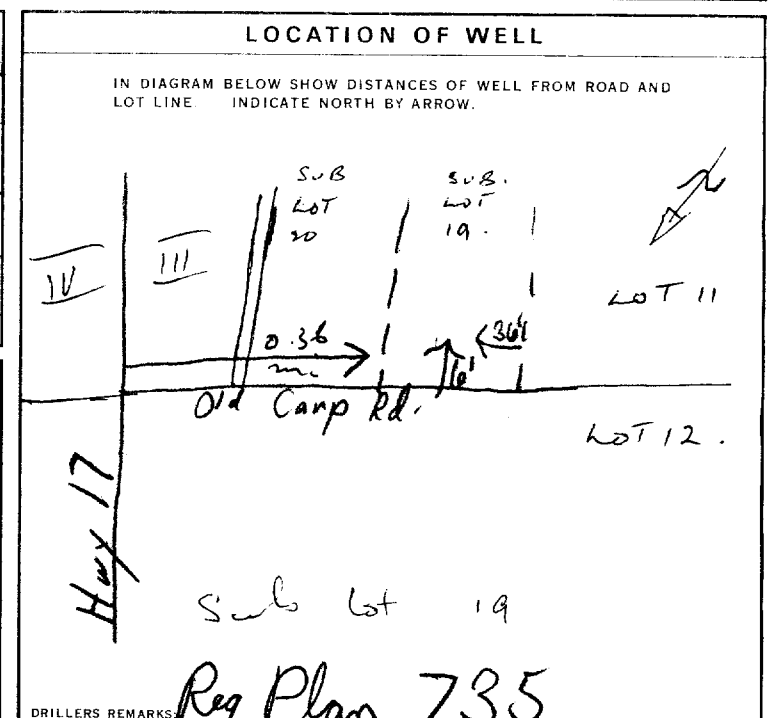
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
19-21	045	15 MINUTES: 035 30 MINUTES: 045 45 MINUTES: 045 60 MINUTES: 045
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	050	

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 050 FEET

RECOMMENDED PUMPING RATE: 010 GPM

50-53 000.6 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: **Henry Mauns Well Drilling** LICENSE NUMBER: **3644**
 ADDRESS: **Box 326, Richmond Ont.**
 NAME OF DRILLER OR BORER: **Henry Mauns** LICENSE NUMBER: **3644**
 SIGNATURE OF CONTRACTOR: **Henry Mauns** SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1
 DATE OF INSPECTION: _____ INSPECTOR: **K**
 CONTRACTOR: **3644** DATE RECEIVED: _____
 REMARKS: _____
 100173
 P R
 WI
 CSS.58



Ontario

WATER WELL RECORD

316/5d

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

11 1514388

MUNICIP. 15006 CON. CON 03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	DATE COMPLETED DAY 30 MO. 10 YR. 74
. # 1 Kanata, Ontario		222650	ELEVATION 4 0188 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	fill			0	3
white	sandstone			3	137
white	sandstone	granite		137	140

31 0003 01 0137118 014011821

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0075	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0138	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0022
5 7/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22	140
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			0140
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

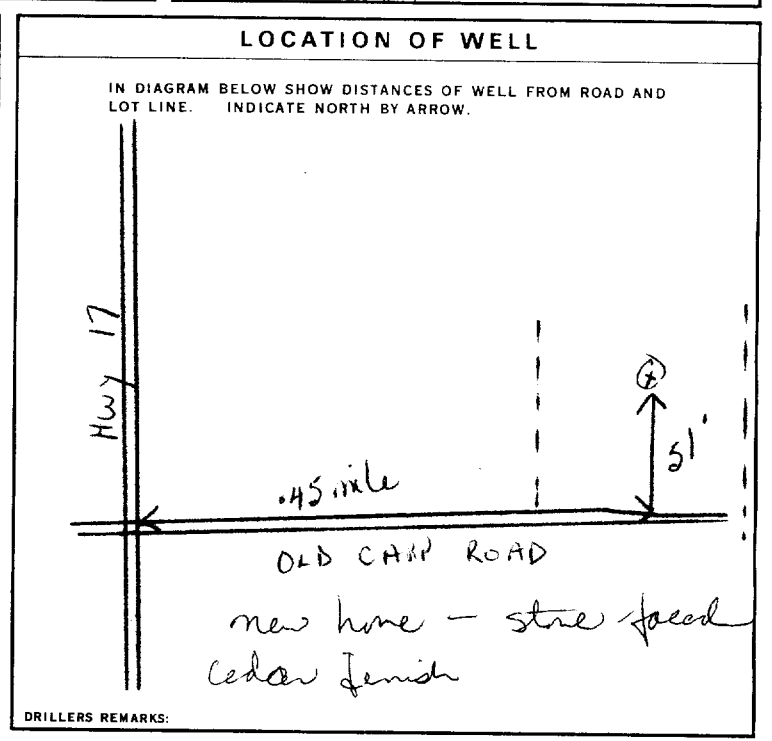
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		41-44
		FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0012 GPM	DURATION OF PUMPING 01 HOURS 00 MINS
STATIC LEVEL 023 FEET	WATER LEVEL END OF PUMPING 070 FEET	WATER LEVELS DURING
15 MINUTES 070 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET		
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
		070 FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 075 FEET	RECOMMENDED PUMPING RATE 0005 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL

5 ABANDONED, INSUFFICIENT SUPPLY
6 ABANDONED, POOR QUALITY
7 UNFINISHED

WATER USE 01

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL
5 OTHER

6 COMMERCIAL
7 MUNICIPAL
8 PUBLIC SUPPLY
9 COOLING OR AIR CONDITIONING
10 NOT USED

METHOD OF DRILLING 5

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION

6 BORING
7 DIAMOND
8 JETTING
9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.** LICENCE NUMBER: **1558**

ADDRESS: **Box 490 Stittsville, Ontario**

NAME OF DRILLER OR BORER: **G. Dagg** LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: **31** MO. **10** YR. **74**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1558** DATE RECEIVED: **081174**

DATE OF INSPECTION: **10/6/77** INSPECTOR: **P. Hodge**

REMARKS: **P**

WI



Ontario

WATER WELL RECORD

316/5d

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

11 1514412 15006 CON 03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	DATE COMPLETED DAY 17 MO 10 YR 74
R. # 1 Kanata, Ontario			48-53
22710		ELEVATION 0285	CODE 26

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand			0	3
grey	snadstone		hard	3	247

31 0.003628 024721873

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input 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

INCHES DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	FROM 0	TO 20
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		FROM 20	TO 247
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		FROM 27	TO 30

SCREEN

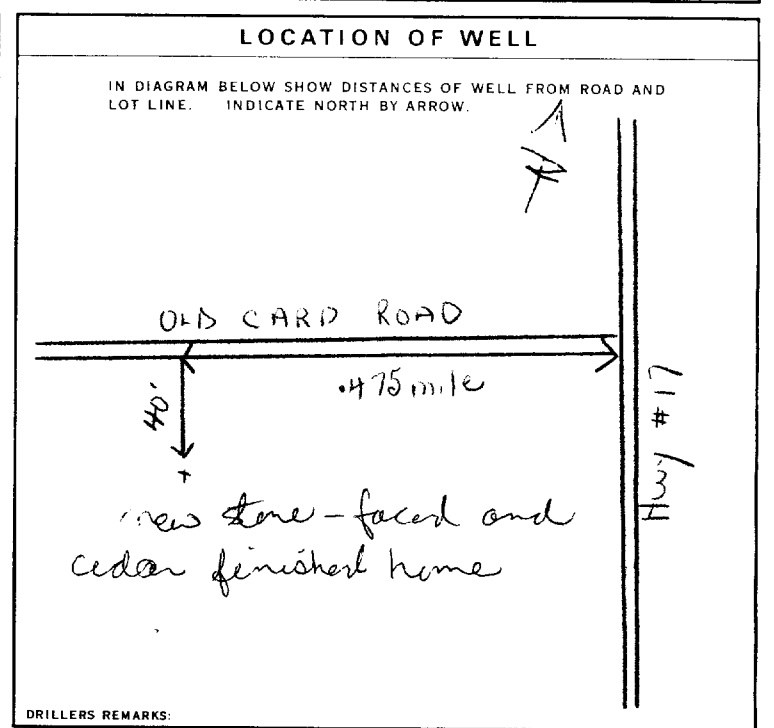
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		41-44
		FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE GPM	DURATION OF PUMPING 15-16 HOURS 17-18 MINS
STATIC LEVEL 19-21 FEET	WATER LEVEL END OF PUMPING 22-24 FEET	WATER LEVELS DURING 1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
IF FLOWING, GIVE RATE 30-31 GPM	PUMP INTAKE SET AT 32-34 FEET	WATER AT END OF TEST 42 FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 43-45 FEET	RECOMMENDED PUMPING RATE 46-49 GPM



FINAL STATUS OF WELL 5

1 <input type="checkbox"/> WATER SUPPLY	5 <input checked="" 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 55-56

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF DRILLING 5

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

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.** LICENCE NUMBER: **1558**

ADDRESS: **Box 490 Stittsville, Ontario**

NAME OF DRILLER OR BORER: **M. Hamilton** LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: *M. Hamilton* SUBMISSION DATE: DAY **18** MO **10** YR **74**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1558** DATE RECEIVED: **081174**

DATE OF INSPECTION: **10/6/77** INSPECTOR: **P. Holby**

REMARKS: _____

P

WI



Ontario

WATER WELL RECORD

316/5d

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

11

1514785

MUNICIPALITY: 15006 CON

OH

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

DATE COMPLETED: DAY 01, MONTH 07, YEAR 75
ELEVATION: 231.00
GRID CODE: 4 26

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

31 002560585 009021873

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INCHES DIA.	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	.188	0	27
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		27	29
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		29	30

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015	02 00

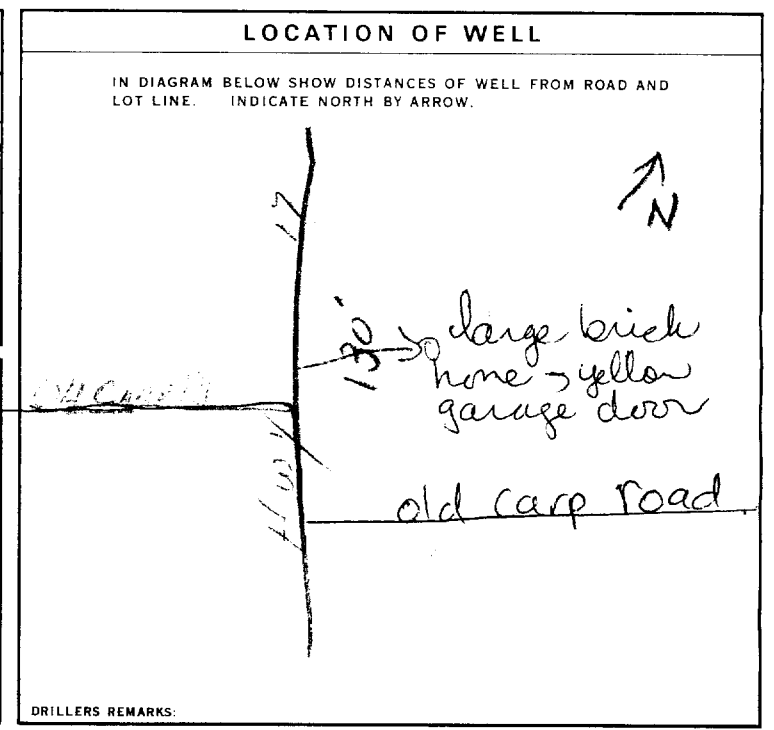
WATER LEVELS DURING PUMPING

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
011	030	030	030	030	030

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL: 1 WATER SUPPLY

WATER USE: 01

METHOD OF DRILLING: 5

CONTRACTOR: Maple Leaf Drilling, 3658

ADDRESS: 2107-465 Richmond Road, Ottawa

NAME OF DRILLER OR BOREN: R. Bisson

SIGNATURE OF CONTRACTOR: [Signature]

SUBMISSION DATE: 9 MO. 7 YR. 75

DATA SOURCE: 1

CONTRACTOR: 3658

DATE RECEIVED: 2307 75

DATE OF INSPECTION: 10/6/77

INSPECTOR: [Signature]

REMARKS:

P

WI



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

31G5d

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

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

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31 000960579 00116051379 00352151873 9115218
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113	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

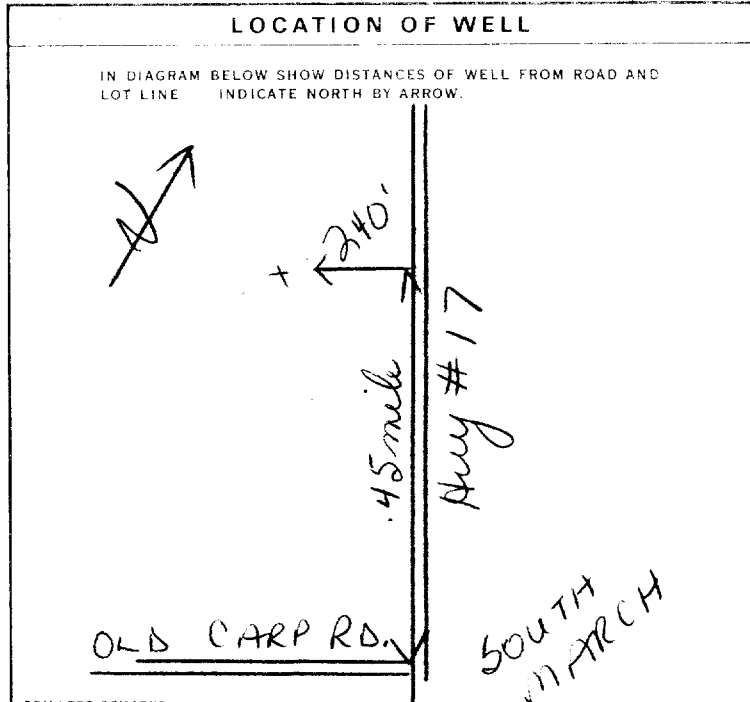
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
65	1 <input checked="" type="checkbox"/> STEEL 12 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0022
06	1 <input type="checkbox"/> STEEL 19 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22 215
	1 <input type="checkbox"/> STEEL 26 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		0115 27-30

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015 GPM	01 15-16 00 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
020 FEET	070 FEET	15 MINUTES 070 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	075 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMP RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	075 FEET	0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

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

OFFICE USE ONLY

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



WATER WELL RECORD

3165d

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

11 1516836

MUNICIPALITY 15006 CON. 03

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

DATE COMPLETED: DAY 08 MO. 11 YR. 78

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

LOT NO. 22960 SECTION 26 TOWNSHIP 9 RANGE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31 000262877 01252187473

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>0120</u>	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 DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 7/8</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0</u>	<u>22</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>22</u>	<u>55</u>
<u>5 7/8</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>55</u>	<u>125</u>

SCREEN

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

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0010 GPM DURATION OF PUMPING: 01 HOURS 00 MINS

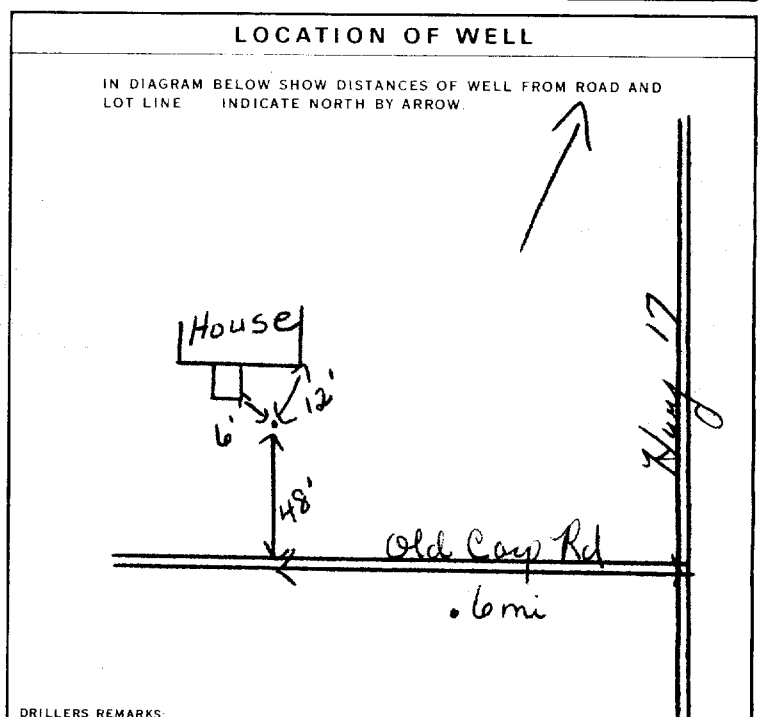
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21 FEET	22-24 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
<u>025</u>	<u>050</u>	<u>050</u>	<u>050</u>	<u>050</u>	<u>050</u>

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

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 075 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

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

ADDRESS: Box 490, Stutterville, Ontario

NAME OF DRILLER OR BORER: S Miller LICENCE NUMBER: _____

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

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1538 DATE RECEIVED: 181278

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

REMARKS: _____



Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

31 G 5d

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

11
 1517937
 MUNICIPALITY **15006**
 CON. **CAN**
 LOT **011**
 22 23 24
 11
 DATE COMPLETED **48-53**
 DAY **17** MO **07** YR. **82**
 22 23 24
 22 23 24
022799 **4** **0280** **4** **26**
 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31
 32
 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 00501	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06 1 4	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	0	0022
065 10	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		22	0053
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	0015 GPM	01 HOURS 00 MINS
STATIC LEVEL 020 FEET	WATER LEVEL END OF PUMPING 030 FEET	WATER LEVELS DURING PUMPING
15 MINUTES 26-28 030 FEET	30 MINUTES 29-31 030 FEET	45 MINUTES 32-34 030 FEET
60 MINUTES 35-37 030 FEET	PUMP INTAKE SET AT FEET	WATER AT END OF TEST <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
IF FLOWING, GIVE RATE GPM	RECOMMENDED PUMP SETTING 040 FEET	RECOMMENDED PUMPING RATE 0005 GPM

LOCATION OF WELL

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

Old Ottawa Rd

6'3" 32'

DRILLER'S REMARKS

FINAL STATUS OF WELL

<input checked="" type="checkbox"/> WATER SUPPLY <input 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
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558

ADDRESS: Box 490; Stittsville, Ont. K0A 3G0

NAME OF DRILLER OR BORER: S. Miller / W. Kavanagh LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 21 MO 07 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 05 10 82

DATE OF INSPECTION: INSPECTOR:

REMARKS:

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

11

1530371

Municipality 15006 Con. CON 03

County or District: Ottawa-Carleton
 Township/Borough/City/Town/Village: City of Kanata
 Con block tract survey, etc.: 3 Lot: 12
 Address: Kanata, Ont
 Date completed: 16 10 98

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
				0	1
Greywhite	Quartz			1	70
Greywhite	Granite	Greywhite quartz		70	80
black brown					
		Talked.			

31
32

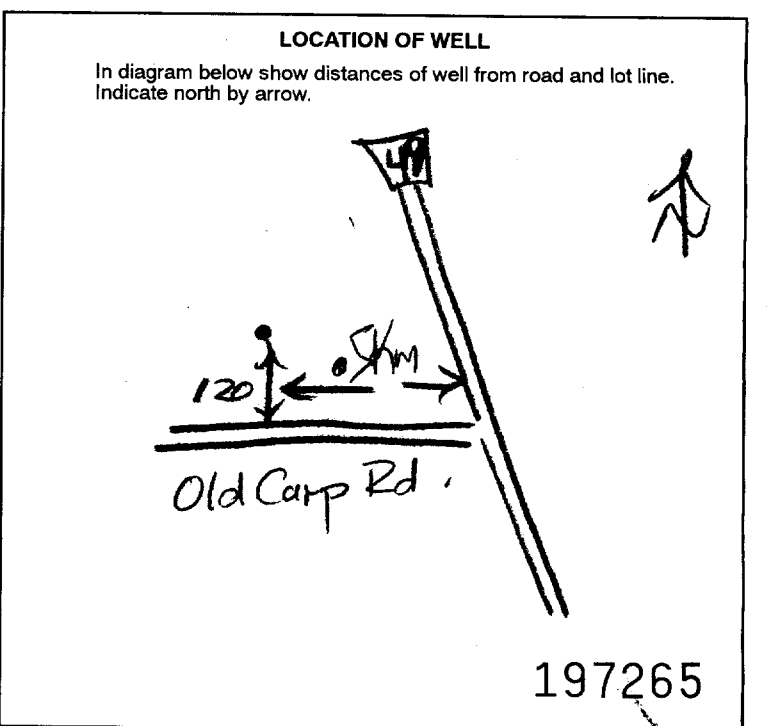
Water found at feet	Kind of water
70	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
74	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 12 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	1 1/8	0	22
8 3/4	1 <input type="checkbox"/> Steel 19 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		0	20
6	1 <input type="checkbox"/> Steel 26 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		20	80

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
		inches	feet
	Material and type	Depth at top of screen	

PLUGGING & SEALING RECORD			
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet			
From	To	Material and type (Cement grout, bentonite, etc.)	
10-13	17	2 22 Cement grout	
18-21	22-25		
26-29	30-33	80	

PUMPING TEST	Pumping test method	Pumping rate	Duration of pumping
	1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	28 GPM	17-18 Hours Mins
	Static level	Water level end of pumping	Water levels during
	70 feet	70 feet	15 minutes 20 feet, 30 minutes 20 feet, 45 minutes 20 feet, 60 minutes 20 feet
	If flowing give rate	Pump intake set at	Water at end of test
	GPM	feet	<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy
	Recommended pump type	Recommended pump setting	Recommended pump rate
	<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	70 feet	28 GPM



FINAL STATUS OF WELL

1 Water supply 5 Abandoned, insufficient supply 9 Unfinished
 2 Observation well 6 Abandoned, poor quality 10 Replacement well
 3 Test hole 7 Abandoned (Other)
 4 Recharge well 8 Dewatering

WATER USE

1 Domestic 5 Commercial 9 Not used
 2 Stock 6 Municipal 10 Other
 3 Irrigation 7 Public supply
 4 Industrial 8 Cooling & air conditioning

METHOD OF CONSTRUCTION

1 Cable tool 5 Air percussion 9 Driving
 2 Rotary (conventional) 6 Boring 10 Digging
 3 Rotary (reverse) 7 Diamond 11 Other
 4 Rotary (air) 8 Jetting

Name of Well Contractor: Air-Lox Drilling Ltd 1119
 Address: Rte 2 Jasper Ont
 Name of Well Technician: Kenny Desaulniers
 Signature of Technician/Contractor: [Signature]
 Well Contractor's Licence No.:
 Well Technician's Licence No.: TOOY
 Submission date: 02 11 98

MINISTRY USE ONLY

Data source: Contractor 1119 Date received: DEC 29 1998
 Date of inspection: Inspector:
 Remarks:
 CSS. ES9

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1530397

Municipality 15006 Con. CON 03

County or District: OTTAWA-CARRIERN
Township/Borough/City/Town/Village: KAWATA (Rural)
Con block tract survey, etc.: CONCESSION 3 Lot: 11
Address: 1158-2nd line, Kanata, Ont.
Date completed: 21 10 98

21
Northing
Elevation
Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
WHITE	SANDSTONE			0	90
BLACK RED	GRANITE			90	160

31
32

41 WATER RECORD

Water found at - feet	Kind of water
36	NOT TESTED
88	
145	

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4"	Steel	1/4"	18	18
6"	Steel		18	160

SCREEN

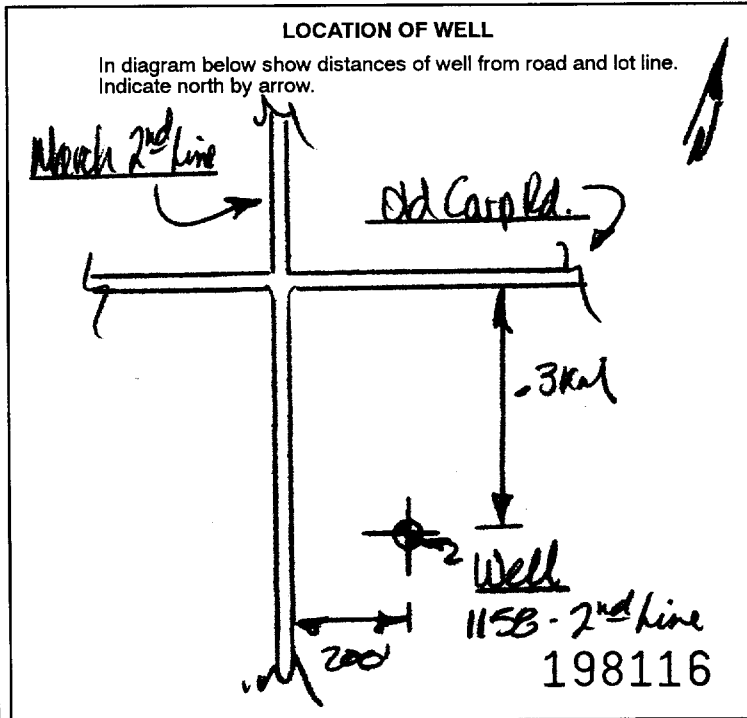
Slot No.	Diameter inches	Length feet

61 PLUGGING & SEALING RECORD

Depth set at - feet	Material and type
0 18	Cement grout

71 PUMPING TEST

Pumping test method: Pump	Pumping rate: 6 GPM	Duration of pumping: 1 hour 0 mins
Static level: 12 feet	Water level end of pumping: 50 feet	Water levels during pumping:
		15 min: 36 feet, 30 min: 43 feet, 45 min: 47 feet, 60 min: 50 feet



FINAL STATUS OF WELL

1 Water supply
2 Observation well
3 Test hole
4 Recharge well

5 Abandoned, insufficient supply
6 Abandoned, poor quality
7 Abandoned (Other)
8 Dewatering

9 Unfinished
10 Replacement well

WATER USE

1 Domestic
2 Stock
3 Irrigation
4 Industrial

5 Commercial
6 Municipal
7 Public supply
8 Cooling & air conditioning

9 Not used
10 Other

METHOD OF CONSTRUCTION

1 Cable tool
2 Rotary (conventional)
3 Rotary (reverse)
4 Rotary (air)

5 Air percussion
6 Boring
7 Diamond
8 Jetting

9 Driving
10 Digging
11 Other

Name of Well Contractor: STANTON DRILLING INC
Well Contractor's Licence No.: AB75
Address: Box 219, Port Hope, Ont. K0M 2X0
Name of Well Technician: [Signature]
Well Technician's Licence No.: [Signature]
Signature of Well Contractor: [Signature]
Submission date: 20 10 98

MINISTRY USE ONLY

Data source: 4875
Date received: DEC 31 1998
Date of inspection: [Blank]
Inspector: [Blank]
Remarks: CSS. ES9

Well Owner's Information

First Name, Last Name, E-mail Address, Well Constructed by Well Owner, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Part A Construction and/or Major Alteration of a Well

Address of Well Location, Township, Lot, Concession, City/Town/Village, Province, Postal Code, UTM Coordinates, GPS Unit Make, Model, Mode of Operation

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

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

Annular Space/Abandonment Sealing Record

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

Results of Well Yield Testing

Table with columns: Check box if after test of well yield, Draw Down, Recovery, Time (Min), Water Level (Metres)

Method of Construction

Form with checkboxes for Cable Tool, Rotary, Air percussion, etc.

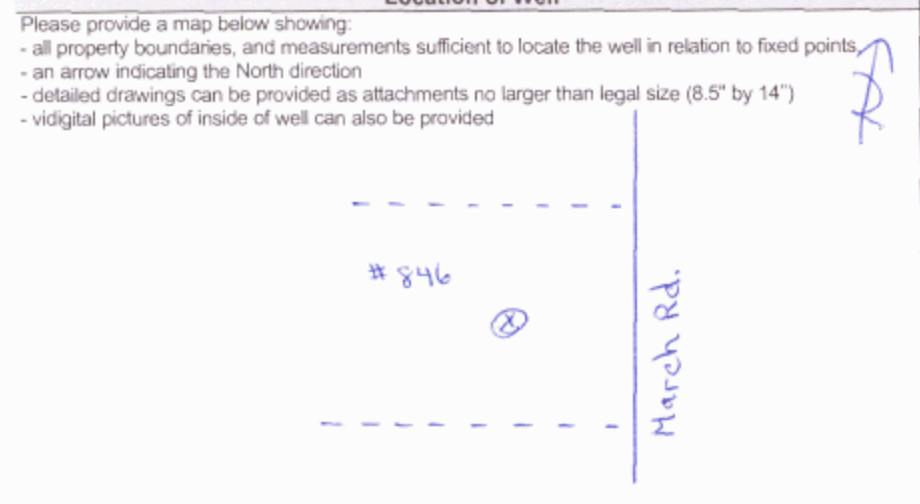
Water Use

Form with checkboxes for Public, Commercial, Domestic, etc.

Status of Well

Form with checkboxes for Water Supply, Replacement Well, etc.

Location of Well



Water Details

Form with columns: Water found at Depth, Kind of Water, Gas, Fresh, Salty, Sulphur, Minerals

Casing Used

Form with checkboxes for Galvanized, Steel, Fibreglass, Plastic, Concrete

Screen Used

Form with checkboxes for Galvanized, Steel, Fibreglass, Plastic, Concrete

Casing and Well Details

Form with fields: Diameter of the Hole (Centimetres), Depth of the Hole (Metres), Wall Thickness (Metres)

No Casing and Screen Used

Form with checkboxes for Open Hole, Disinfected?

Ministry Use Only

Form with fields: Audit No. (z 77317), Date Received, Date of Inspection, Remarks

Date Well Completed, Was the well owner's information package delivered?, Date the Well Record and Package Delivered to Well Owner

Well Contractor and Well Technician Information

Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Name of Well Technician, Signature of Technician, Date Submitted



Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: McKeown Contracting, Last Name / Organization: McKeown Contracting, E-mail Address: _____, Mailing Address: 2878 Stagecoach Road, Municipality: Greely, Province: Ontario, Postal Code: K0A2W0, Telephone No.: 613 821 4808

Well Location

Address of Well Location: 856 March Road, Township: Kanata, Lot: 11, Concession: 4, City/Town/Village: Kanata, Province: Ontario, Postal Code: _____, UTM Coordinates: NAD 83 18 4 26 73 0 5 0 2 3 1 25

Overburden and Bedrock Materials/Abandonment Sealing Record

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

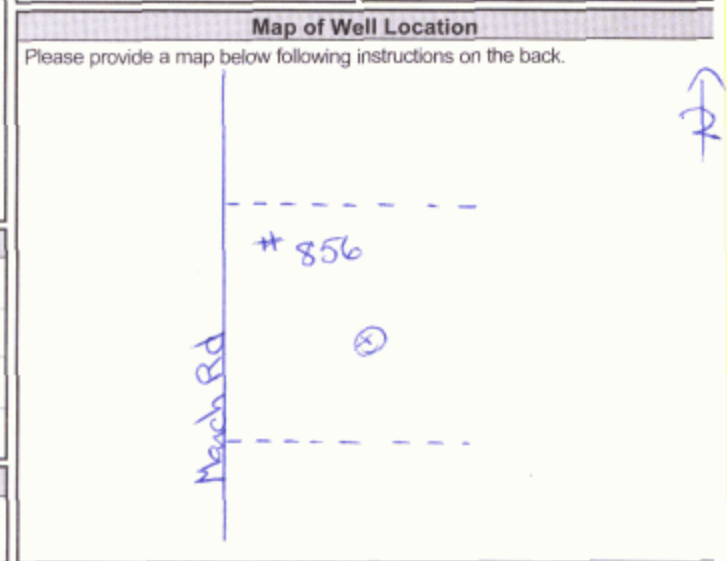
Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level)

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

Construction Record - Casing and Status of Well table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth



Water Details and Hole Diameter table with columns: Water found at Depth, Kind of Water, Hole Diameter

Well Contractor and Well Technician Information table with fields for Business Name, Address, Licence No.

Well owner's information package delivered table with Yes/No checkboxes and date fields

Ministry Use Only table with Audit No. Z 84393 and Received date OCT 14 2008

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name McKeown Contracting	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 2878 Stagecoach Road		Municipality Greely	Province Ontario
		Postal Code K0A 2W0	Telephone No. (inc. area code) 613 822 2599

Well Location

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

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To

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

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

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

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

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

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1 5 5 8		
Business Address (Street Number/Name) Box 490	Municipality Stittsville		
Province Ontario	Postal Code K2S 1A6	Business E-mail Address office@capitalwater.ca	

Well Contractor and Well Technician Information			
Bus. Telephone No. (inc. area code) 613 836 1766	Name of Well Technician (Last Name, First Name) Miller, Stephen		
Well Technician's Licence No. 0 0 9 7	Signature of Technician and/or Contractor 	Date Submitted 20080908	

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Y Y Y Y M M D D	Y Y Y Y M M D D	Audit No. Z 84392	OCT 14 2008
		Date Work Completed		Received	
		20080905			



Measurements recorded in: Metric Imperial

Abandoned

Well Owner's Information

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

Well Location

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

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

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

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

Method of Construction and Well Use sections with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Domestic, etc.

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

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

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

Well Contractor and Well Technician Information section with fields for Business Name (Marathon Drilling Co. Ltd.), Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician (Eric Foster), Signature, Date Submitted.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes handwritten data points for static level and pumping rates.

Map of Well Location

Please provide a map below following instructions on the back.

Comments section with handwritten text: See Attached.

Well owner's information package delivered (Yes/No), Date Package Delivered, Date Work Completed, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted.

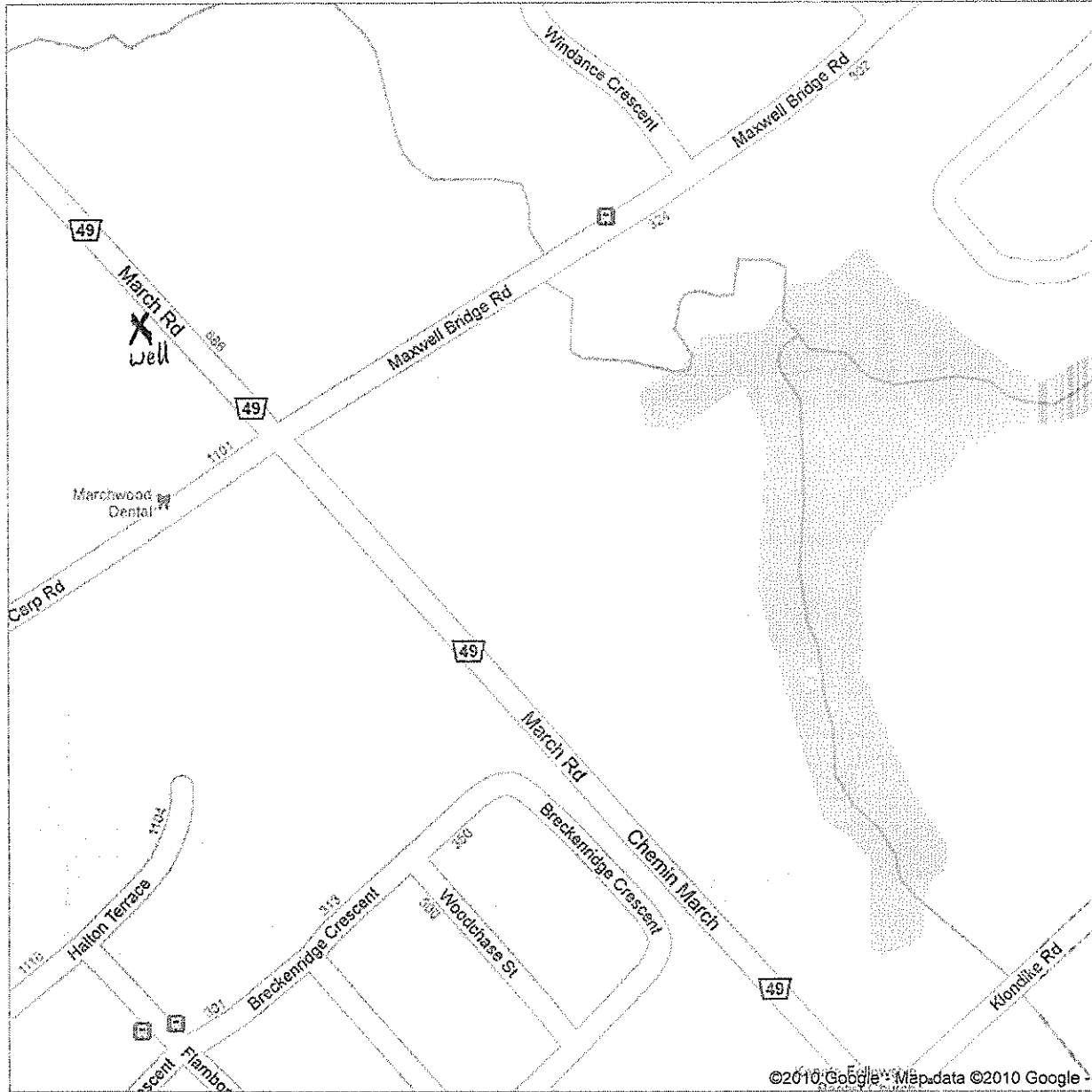
Ministry Use Only section with fields for Audit No. (Z096933), Date (DEC 22 2010), and other tracking information.

157 1 1 1 1

Pri

Google maps
Canada

Notes



C-6894
Z096933.

DEC 22 2010

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