Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Studies

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Phase I Environmental Site Assessment

Vacant and Agricultural Property Terry Fox Drive at Cope Drive Ottawa, Ontario

Prepared For

Claridge Homes

Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca May 8, 2018

Report: PE4263-1



Vacant and Agricultural Property Terry Fox Drive at Cope Drive - Ottawa

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May 8, 2018





EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for part of 5331 Fernbank Road and part of 1039 Terry Fox Drive, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and adjacent properties and identify any environmental concerns with the potential to impact the subject property.

Based on a review of historical sources, the subject property appears to have never been formally developed. No historical potentially contaminating activities (PCAs) were identified on the Phase I property. Surrounding properties have historically been used for agricultural purposes, until the area was developed for commercial and residential purposes. The former use of the Trans Canada Trail along the northern boundary of the site as a railway track is considered to be a Potentially Contaminating Activity. However, based on the absence of fueling or maintenance operations, and its redevelopment as a recreational trail, this PCA is not considered to represent an APEC on the subject site.

Following the historical review, a site visit was conducted. The subject property currently exists as a vacant, grass covered lot of land at the north corner of the intersection of Fernbank Road and Terry Fox Drive. No PCAs were identified on the subject property.

The surrounding land use consisted of commercial and vacant properties. A Jiffy Lube automotive garage was identified as a PCA across Terry Fox Drive, at 5357 Fernbank Road. Based on its distance (50 m) and recent age (2015), this PCA was not considered to represent an Area of Potential Environmental Concern (APEC).

Conclusion

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





1.0 INTRODUCTION

At the request of Claridge Homes, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) of a vacant property at the intersection of Terry Fox Drive and Cope Drive, 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. Jim Burghout of Claridge Homes. Claridge's offices are located at 2001-210 Gladstone Avenue, Ottawa, Ontario.

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 153/04 as amended by O.Reg. 269/11 (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.

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Vacant and Agricultural Property Terry Fox Drive at Cope Drive - Ottawa

2.0 PHASE I PROPERTY INFORMATION

Addresses: Northern Part of 5331 Fernbank Road, and Part of

1039 Terry Fox Drive, Ottawa, Ontario.

Legal Descriptions: Part of Lot 30 and Part of the Road Allowance

Between Lots 30 and 31, Concession 10, Geographic Township of Goulbourn, in the City of Ottawa,

Ontario.

Property Identification

Numbers (PINs): 04744-0397; 04744-0158; 04744-0168; 04744-0404

Location: The subject site is located on the north corner of the

intersection of Terry Fox Drive and Cope Drive.

Latitude and Longitude: 45°16'48" N, 75°52'36" W

Site Description:

Configuration: Irregular.

Site Area: 3.56 ha + 18.08 ha (approximate)

Zoning: IP – Business Park Industrial Zone; R3 – Residential

Third Density; R4 – Residential Fourth Density;)1 – Parks and Open Space; EP3 – Environmental Zone.

Current Use: The subject site is vacant. The southern portion is

used for agricultural purposes.

Services: The subject site is situated in a municipally serviced

area.

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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 Ontario Regulation 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.

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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 ESA 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 a review of historically available information, the Phase I property appears to have always been vacant. The property has never been developed.

National Archives

Fire insurance plans and city directories are not available for the Phase I study area.

Draft Plan of Subdivision

A draft plan of subdivision for the southern part of the subject property, prepared by Annis, O'Sullivan, Vollebekk Ltd., was reviewed as a part of this assessment. The plan depicts the subject site in its current configuration with proposed subdivisions.

Previous Engineering Reports

Paterson has conducted several environmental and geotechnical projects in the area of the subject site. No environmental concerns with respect to the subject site were identified during the review of previous reports completed by Paterson.



4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 3, 2018. The subject site and Phase I study area were not listed in the NPRI database.

PCB Inventory

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

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. At the time of issuing this report, a response from the MOECC had not been received.

MOECC Coal Gasification Plant Inventory

The Ontario Ministry of Environment and Climate Change document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified in the Phase I study area

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. At the time of issuing this report, a response from the MOECC had not been received.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. At the time of issuing this report, a response from the MOECC had not been received.

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MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions for the property. At the time of issuing this report, a response from the MOECC had not been received.

MOECC Brownfields Environmental Site Registry

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

MOECC Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change 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. No records were listed for the subject site or for properties within the Phase I study area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources and Forestry (MNRF) on May 3, 2018. No areas of natural significance were identified on the subject site or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on May 3, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA returned a record for a cylinder exchange facility at 5357 Fernbank Road. This facility does not pose a concern to the subject property.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No landfill sites were identified within the Phase I study area.

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4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates to the first available air photos for the site. Based on the review, the following observations have been made:

The subject site is a vacant agricultural field, with some tree cover in the northeast corner. Two creeks or drainage ditches traverse the central part of the site. Surrounding properties are also agricultural fields, with the exception of a woodland to the northeast. Hazeldean Side Road is visible on the east side of the subject site, and a railroad is present along the northern border of the site.

1976 (City of Ottawa website) No changes have been made to the subject site. Residential developments are present to the north, on Glamorgan Drive and Castlefrank Road.

No changes have been made to the subject site or properties in the Phase I study area. The railroad to the north appears to have been removed. Residential developments are present further to the east, on the east side of Eagleson Road.

A hydro corridor has been constructed, dividing the property into a northern and southern portion. Part of the northern half of the property appears to be unused, while the southern portion is an agricultural field. Michael Cowpland Drive has been built 95 m to the east. The railroad to the north of the subject property appears to have been converted to a recreational trail (Trans Canada Trail).

No significant changes have been made to the subject site or surrounding properties.

(City of Ottawa website) No changes have been made to the subject site. A pumping station has been constructed to the northeast of the subject site. Terry Fox Drive has been constructed along the western side of the subject property, and Cope Drive appears to be under construction.

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2017

Vacant and Agricultural Property Terry Fox Drive at Cope Drive - Ottawa

2008	(City of Ottawa website) No changes have been made to the
	subject site. Northgraves Crescent is under construction to the east
	of the subject property.

(City of Ottawa website) Two small areas of the subject property along Terry Fox Drive have been cleared of vegetation and appear to be used for roadside vendors or billboards. The lands to the west of Terry Fox Drive are under development with residential dwellings, and a large commercial building (Walmart) has been constructed to the south of the subject property, on Terry Fox Drive.

The former presence of a railway track to the north of the subject property is considered to be a Potentially Contaminating Activity. However, considering it was a main line with no ancillary activities and its redevelopment as a recreational trail, it is not considered to represent an Area of Potential Environmental Concern on the subject property.

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

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 95 m above sea level. The regional topography in the general area of the site slopes slightly downward towards Mahoney Creek, which traverses the site. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website, as a part of this assessment. According to the publication and mapping, the site is situated within the St. Lawrence Lowlands, Till Plains (Drumlinized) physiographic region. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." The subject site is in the Central St. Lawrence Lowland, "where the land is rarely more than 150 m above sea level, except for the Monteregion Hills, which consist of intrusive igneous rocks.

Geological Maps

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Vacant and Agricultural Property
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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 of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden consists of offshore and nearshore marine sediments and some organic deposits, with a drift thickness of 10 to 50 m (deepest at the south).

Water Well Records

A search of the MOECCs web site for all drilled well records within 250 m of the subject site was conducted on May 4, 2018. Based on the search results, one water supply well, drilled in 1949, is reported to be present on the subject site. Four (4) water supply wells and seven (7) monitoring well records were identified in the Phase I study area. Active water supply wells are not likely to be present in the Phase I study area.

Water Bodies and Areas of Natural Significance

A stormwater management pond is present to the west of the subject site, across Terry Fox Drive. Mahoney Creek is the closest major water body, which traverses the subject property. No other creeks, streams, lakes or other water bodies were identified in the area. The area around Mahoney Creek is an Environmental Protection Zone. No areas of natural significance were identified within the Phase I study area.

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5.0 SITE RECONNAISSANCE

5.1 General Requirements

The site assessment was conducted on May 8, 2018. Weather conditions were sunny, with a temperature of approximately 21 °C. Personnel from the Environmental Department of Paterson Group conducted the site visit. 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.

5.2 Specific Observations at Phase I Property

Buildings and Structures

The subject site is a vacant lot of land. No buildings or structures exist on the subject property. A depiction of the subject site is shown on Drawing PE4263-1 – Site Plan, in the Figures section of this report.

Site Features

The subject site is not developed with any buildings and exists as a vacant lot of grassed land. No hazardous materials were observed on the subject site.

Underground Utilities

The subject site has no underground utilities.

Waste Materials

No waste materials were present on the subject site at the time of the site visit.

Storage Tanks

No storage tanks were present on the subject site at the time of the site visit.

Drains, Pits and Sumps

No drains, pits or sumps were present on the subject site at the time of the site visit.

Unidentified Substances

No unidentified substances were present on the subject site at the time of the site visit.

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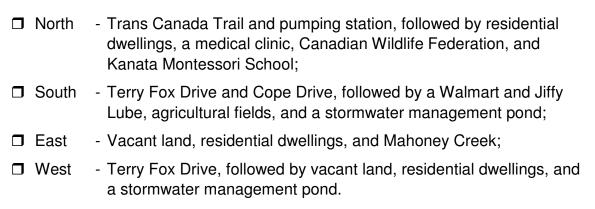
Vacant and Agricultural Property
Terry Fox Drive at Cope Drive - Ottawa

Hazardous Building Materials

No hazardous building materials were present on the subject site at the time of the site visit.

Phase I Study Area

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



The Jiffy Lube is considered to be a Potentially Contaminating Activity. However, based on the recent age of the business, and its distance from the subject site (approximately 65 m), the service garage is not considered to represent an Area of Potential Environmental Concern on the subject property. No other PCAs were identified on the neighbouring properties in the Phase I study area. Property use within the Phase I study area is presented on Drawing PE4263-2 – Surrounding Land Use Plan.



6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Land Use History

The subject site appears to have never been developed. The site currently exists as a partially vacant, partially agricultural property.

Potentially Contaminating Activities (PCAs)

Potentially Contaminating Activities (PCAs) were not identified on the subject site. Two PCAs, a Jiffy Lube automotive garage on the property to the south of the subject site, across the intersection of Terry Fox Drive and Cope Drive, and the former railway tracks to the north of the subject property, were identified as PCAs in the Phase I study area.

Areas of Potential Environmental Concern (APECs)

No Areas of Potential Environmental Concern (APECs) were identified on the subject site. Base on the age (2015) of the Jiffy Lube on the property to the west and the repurposing of the railway tracks as a recreational trail, the PCAs are not considered to represent APECs on the subject property.

Contaminants of Potential Concern (CPCs)

No contaminants of concern (CPCs) were identified on the Phase I property.

6.2 Conceptual Site Model

Existing Buildings and Structures

The subject site is a vacant and partly agricultural lot of land. No buildings or structures exist on the subject property.

Geological and Hydrogeological Setting

The subject site is located in an area of limestone and dolomite bedrock with marine sediment overburden of 10 to 50 m in depth. Groundwater flow is expected to flow to the central part of the site, towards Mahoney Creek.

Water Bodies

Mahoney Creek traverses the central part of the site from west to east. Two stormwater management ponds are present in the Phase I study area, on the west side of Terry Fox Drive.

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Areas of Natural Significance

No areas of natural significance were identified within the Phase I study area.

Water Wells

A search of the MOECC's web site for all drilled well records within 250 m of the subject site was conducted on May 4, 2018. Based on the search results, one water supply well is reported to be located on the subject site. However, based on its age (1949), it is not expected to be in current use. Four (4) water supply wells and seven (7) monitoring well records were identified in the Phase I study area. Active water supply wells are not likely to be present in the Phase I study area.

New developments in the Phase I area receive full municipal services.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is currently vacant, residential, agricultural, or commercial. Neighbouring land use does not pose an environmental concern to the subject site.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the subject site or in the Phase I study area that represent Areas of Potential Environmental Concern.

Contaminants of Potential Concern

No CPCs were identified on the subject site.

Assessment of Uncertainty and/or Absence of Information

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

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7.0 CONCLUSION

Assessment

A Phase I – Environmental Site Assessment was carried out for part of 5331 Fernbank Road and part of 1039 Terry Fox Drive, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and adjacent properties and identify any environmental concerns with the potential to impact the subject property.

Based on a review of historical sources, the subject property appears to have never been formally developed. No historical potentially contaminating activities (PCAs) were identified on the Phase I property. Surrounding properties have historically been used for agricultural purposes, until the area was developed for commercial and residential purposes. The former use of the Trans Canada Trail along the northern boundary of the site as a railway track is considered to be a Potentially Contaminating Activity. However, based on the absence of fueling or maintenance operations, and its redevelopment as a recreational trail, this PCA is not considered to represent an APEC on the subject site.

Following the historical review, a site visit was conducted. The subject property currently exists as a vacant, grass covered lot of land at the north corner of the intersection of Fernbank Road and Terry Fox Drive. No PCAs were identified on the subject property.

The surrounding land use consisted of commercial and vacant properties. A Jiffy Lube automotive garage was identified as a PCA across Terry Fox Drive, at 5357 Fernbank Road. Based on its distance (50 m) and recent age (2015), this PCA was not considered to represent an Area of Potential Environmental Concern (APEC).

Conclusion

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

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8.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, 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 Claridge Homes. Permission and notification from Claridge Homes and Paterson will be required to release this report to any other party.

M. S. D'ARCY 90377839

WCE OF ONT

Paterson Group Inc.

Anna Graham, M.E.S.

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

Report Distribution:

- Claridge Homes
- Paterson Group Inc.

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9.0 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).

Natural Resources Canada - The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MOECC Freedom of Information and Privacy Office.

MOECC Municipal Coal Gasification Plant Site Inventory, 1991.

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

MOECC Brownfields Environmental Site Registry.

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

MNR Areas of Natural Significance.

MOECC Water Well 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.

The City of Ottawa Historical Land Use Inventory.

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

The City of Ottawa eMap website.

Local Information Sources

Previous Engineering Reports.

Draft Plan of Subdivision prepared by Annis, O'Sullivan, Vollebekk, Ltd.

Public Information Sources

Google Earth.

Google Maps/Street View.

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FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4263-1 – SITE PLAN

DRAWING PE4263-2 – SURROUNDING LAND USE PLAN

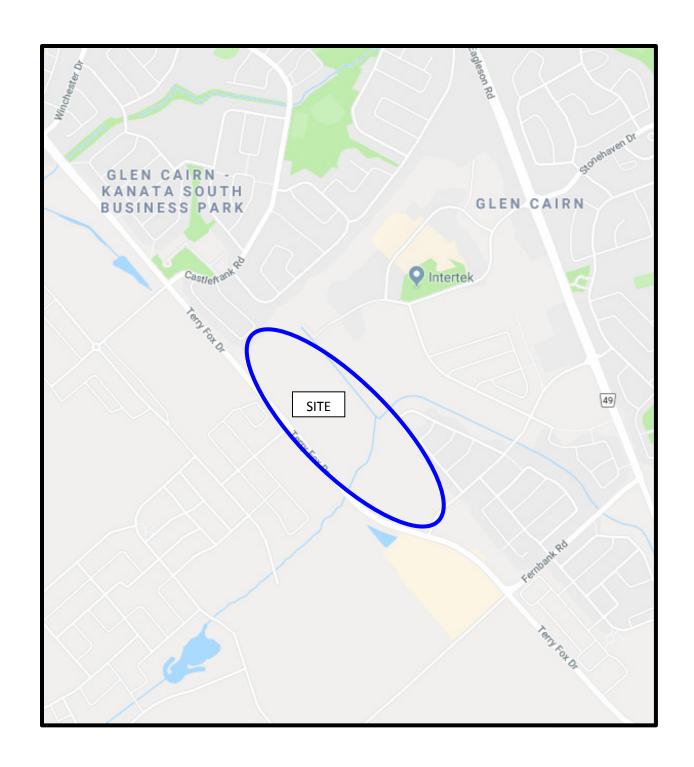


FIGURE 1 KEY PLAN

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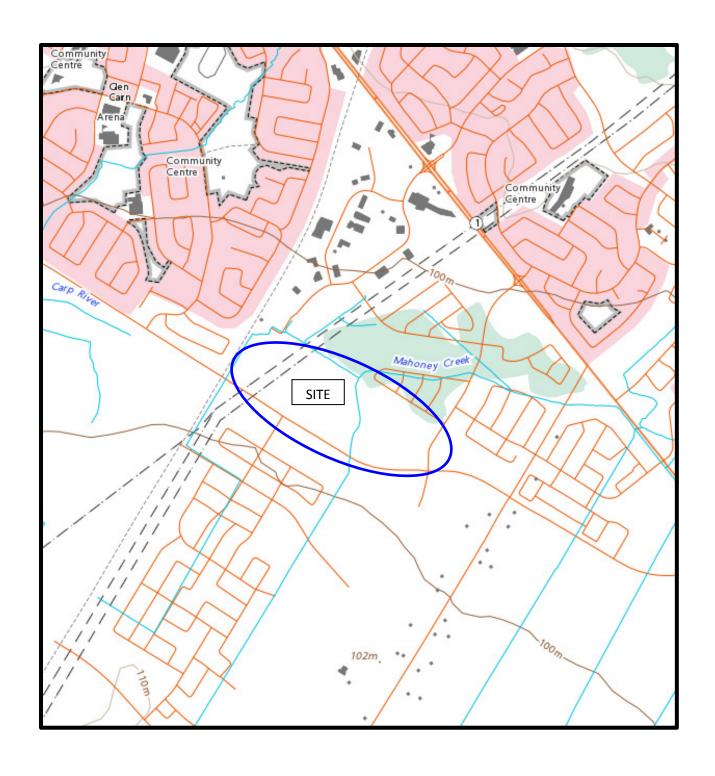
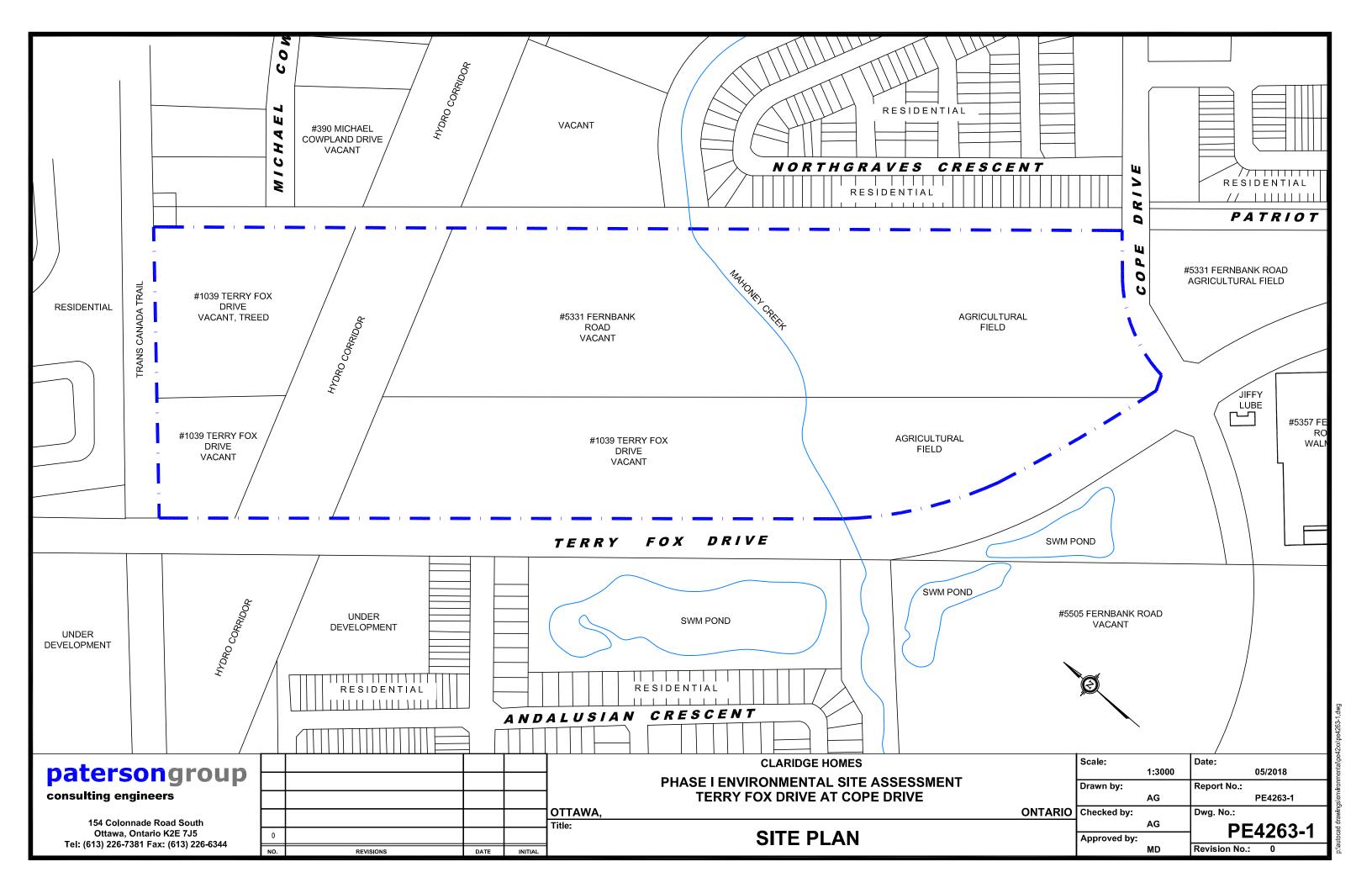
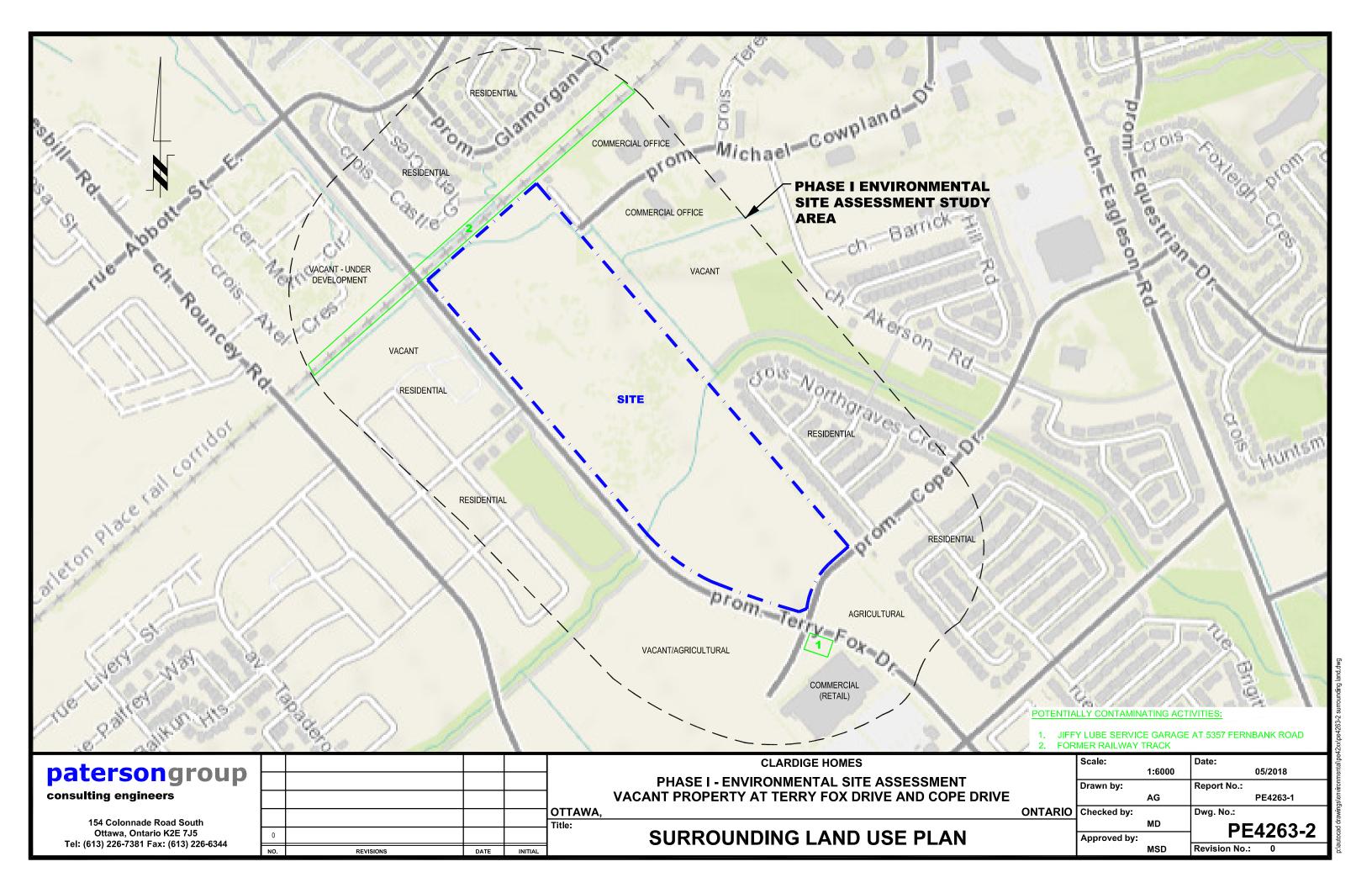


FIGURE 2 TOPOGRAPHIC MAP

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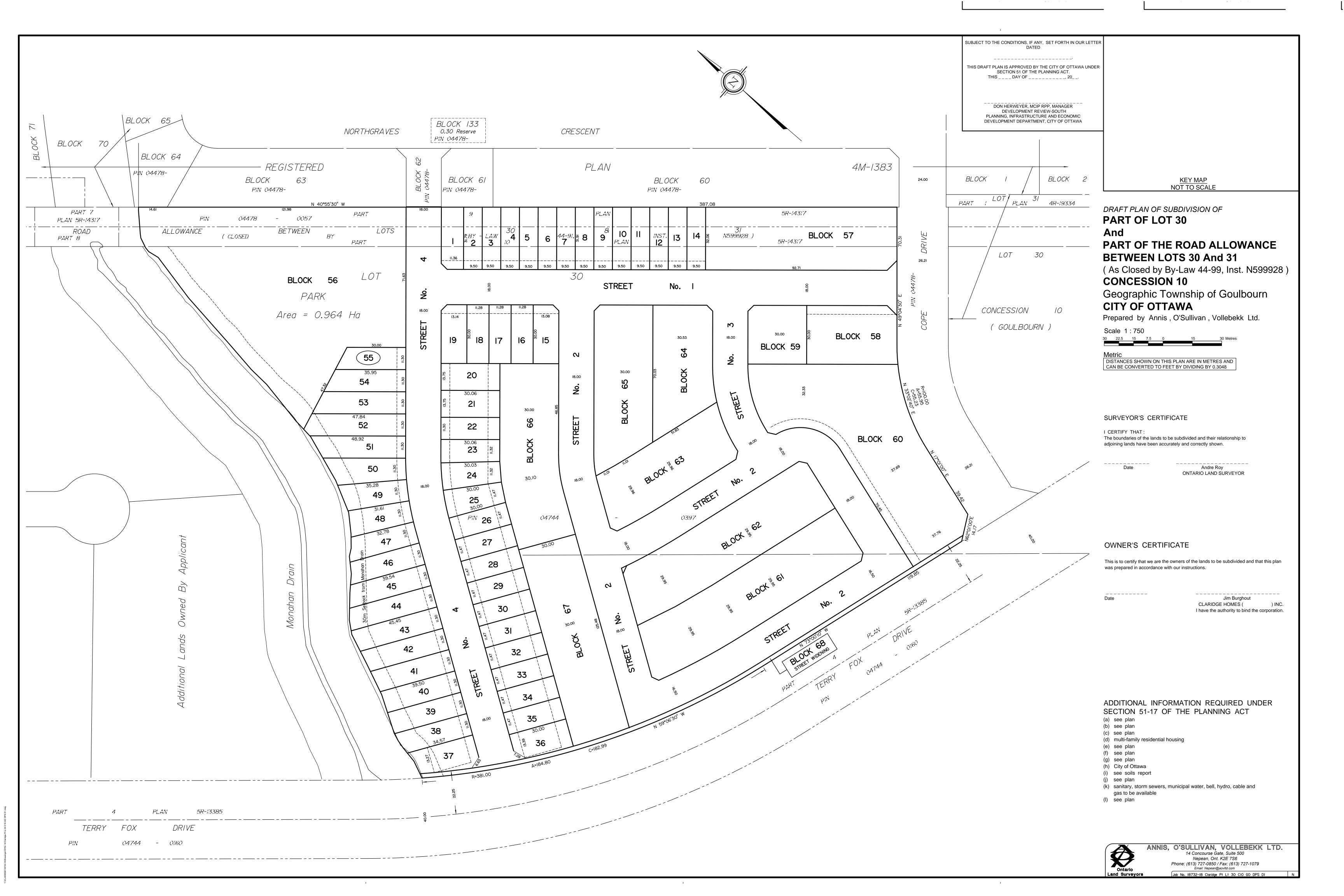


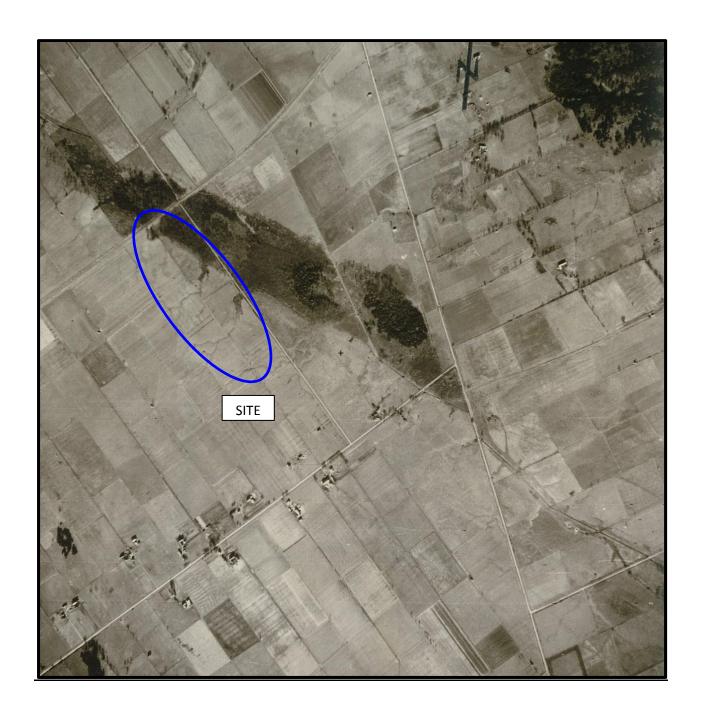
APPENDIX 1

DRAFT PLAN OF SUBDIVISION

AERIAL PHOTOGRAPHS

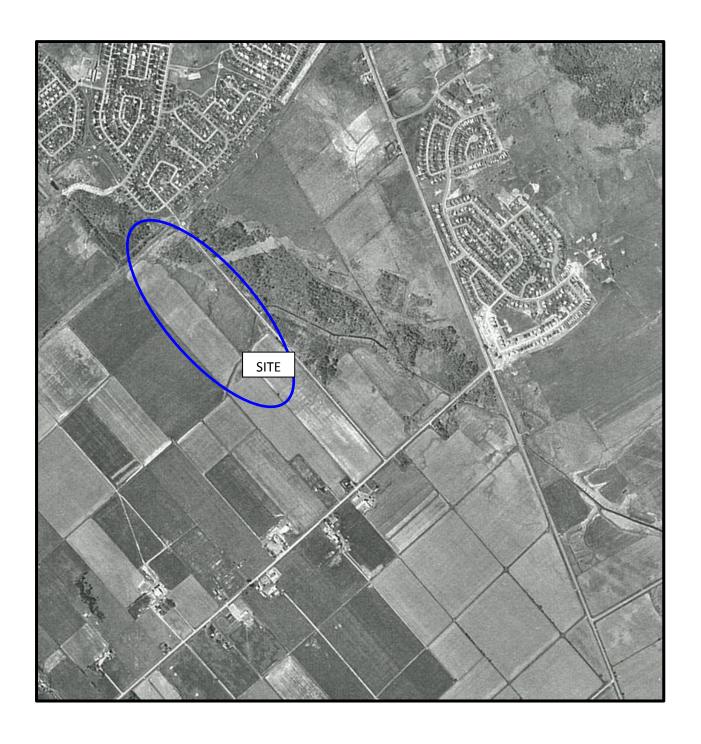
SITE PHOTOGRAPHS





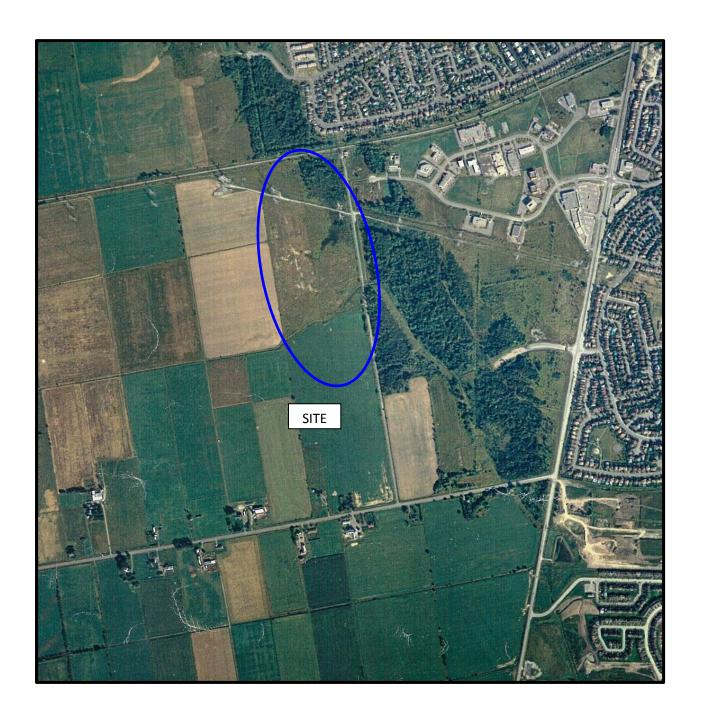
AERIAL PHOTOGRAPH 1945

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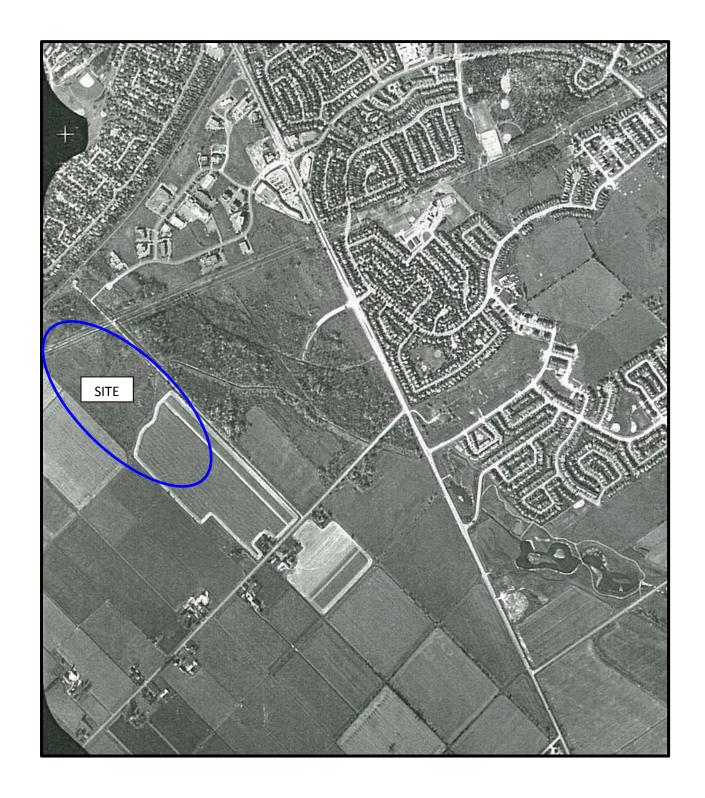
AERIAL PHOTOGRAPH 1984

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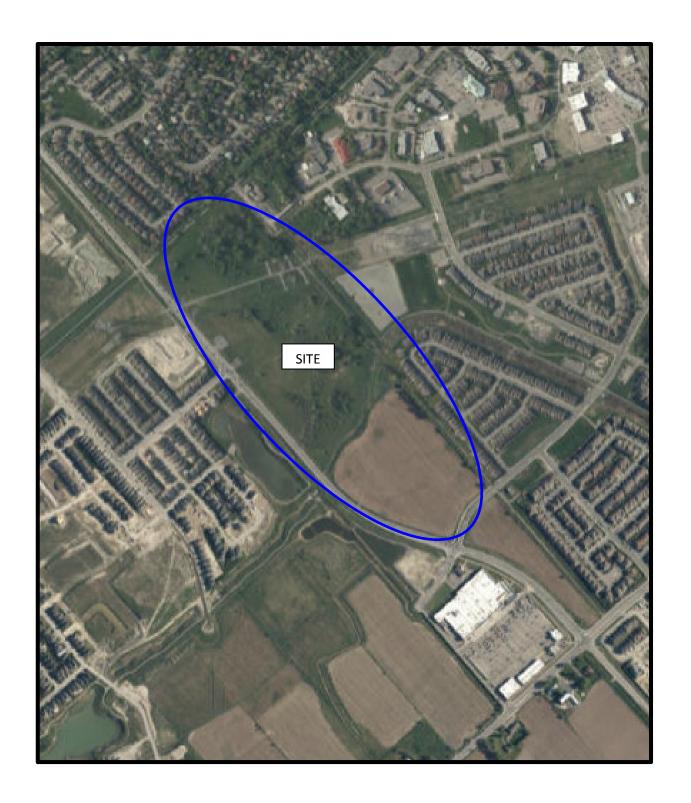
AERIAL PHOTOGRAPH 1993

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AERIAL PHOTOGRAPH 1998

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AERIAL PHOTOGRAPH 2017

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Photograph 1: View of the subject site and hydro corridor, looking east from Terry Fox Drive.



Photograph 2: View of the northern portion of the subject site from Terry Fox Drive, looking east. The Trans Canada Trail runs behind the houses visible at far left.



Photograph 3: View of the west-central part of the subject site, at the intersection of Terry fox Drive and Westphalian Avenue, looking south.



Photograph 4: View of Hazeldean Sideroad, running along the eastern boundary of the subject site, looking north from Cope Drive.

Site Photographs

PE4263

Terry Fox Drive at Cope Drive, Ottawa (Kanata) Ontario

May 8, 2018



Photograph 5: View of the southern portion of the subject property, looking north from Cope Drive.

APPENDIX 2

MOECC FREEDOM OF INFORMATION SEARCH REQUEST TSSA RESPONSE MOECC WATER 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				st No.	Date Request Received		
Paterson Group Inc. 154 Colonnade Road Ottawa ON K2F 7 15		Fee Paid					
Ottawa, ON K2E 7J5 Email address: agraham@patersongroup.ca			□ ACCT □ CHQ □ VISA/MC □ CASH				
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE4263	Signature/Print /Name of Requester Anna Graham	□ CNR	□ ER □ NO			
Request Parameters							
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions)							
Part of Lot 30 and Lot 31 and Part of the road allowance between Lot 30 and 31, Concession 10, Geographic Township of Goulbourn, City of Ottawa. (Cope Drive and Terry Fox Drive). Part of 5331 Fernbank Road and Part of 1039 Terry Fox Drive.							
Present Property Owner(s) and Date(s) of Own	nership						
Marty Van Gaal							
Previous Property Owner(s) and Date(s) of Ow	vnersnip						
Present/Previous Tenant(s),(if applicable)							
Vacant, agricultural							
Search Parameters Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located. Specify Year(s) Requested							
		e, occurrence reports, abatement			all		
Orders	all						
Spills	all						
Investigations/prosecutions	all						
Waste Generator number/cl	all						
	Certificate	s of Approval > Proponent infor	mation must l	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 i	1986-present						
sewage - sanitary, storm, treatme	1986-present						
waste water - industrial discharg	1986-present						
waste sites - disposal, landfill sit	1986-present						
waste systems - PCB destructi	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.

0026 (05/02) Page 1 of 1

Anna Graham

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

Sent: May-07-18 9:09 AM To: Anna Graham

Subject: RE: Records search request for Cope Drive and Terry Fox - Record Found

Record Found:

Hello,

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record:

Inst Number	Context	Address	City	Province	Postal Code	Status
64595982	FS CYLINDER EXCHANGE	5357 FERNBANK RD	STITTSVILLE	ON	K2S 1B6	Active

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 public-informationservices@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.

Thank you and have a great day,

Connie

From: Anna Graham < AGraham@Patersongroup.ca>

Sent: May 3, 2018 2:56 PM

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

Subject: Records search request for Cope Drive and Terry Fox

Good afternoon,

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

5331 Fernbank Road

5357 Fernbank Road

5505 Fernbank Road

950 Terry Fox Drive

1039 Terry Fox Drive

1140 Terry Fox Drive

280 Michael Cowpland Drive

200 Michael Compland Bilve

390 Michael Cowpland Drive

415 Michael Cowpland Drive

180 Cope Drive

Thank you,

Anna Graham, B.Sc., M.E.S.

patersongroup solution oriented engineering

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 228

Fax: (613) 226-6344

Email: agraham@patersongroup.ca

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UTM 1/8 Z A 3 1 / 15 / 10 E

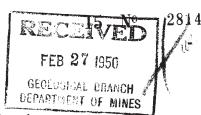
5 R 5 0 1 / 13 | 7 | 2 | 0 | N

Elev. A R 0 | 3 | 2 | 0 |

Bain 2 | 5 | 1 | 1



316/50



The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

Pipe and Casing Record		1				
Casing diameter(s). 4". Length(s) of casing(s) /23! Length of screen. Type of pump. Capacity of pump. Depth of pump setting.	Duration of Test Pumping Rate Drawdown Static level of completed well Static level of completed well					
W	ater Record					
Kind (fresh or mineral)	Soft		Depth(s) to Water Horizon(s)	Kind of Water	No. of Fo Water Ri	
Appearance (clear, cloudy, coloured)	ck.			ing we	el.	
Well Log			Loca	ation of Well	 [
Drift and Bedrock Record	From	То	In diagram belo	w show dista	nces of w	
Clay	O ft.	1.1.5ft.	from road and lo	t line		
0	1/5	12/2		Thline		
gravee	1/-	1,00				
sand	121 &	123	1 30 A	\$ 60 PD.		
			stok gate	F X 27/10	Ľ	
			1+1614VVAY	15 L1	X1E12	

The Ontario Water Resources Act

WATER WELL RECORD

Y OR DISTRICT	2. CHECK (A) CORREC	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SUI	RVEY, ETC. LOT 25-27 OBO DATE COMPLETED 48-53
SURNAME FIRS	T) 28-47	ADDRESS 4 1/ W	Jil Ont	DAY 15 NO 08 YR 78
n De	ZONE EASTING	NORTH NG 269 9 BL	ELEVATION RC BASIN CODE	
	118 4313	G OF OVERBURDEN AND BEDROCK	26 30 31	
			GENERAL DESCRIPTION	DEPTH - FEET FROM TO
RAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		0 12
own	clay			12 156
luc	clay		20/4	156 185
rey	lemestone	layerd	20g	
/				
	i			
				MOE
Dogs	21605 1 10 55	2305 01852157485		
100/3		32	43 54	65 75 31-33 DIAMETER 34-38 LENGTH 35
) WA	TER RECORD	CASING & OPEN HOLE R	ECORD SIZE(S) OF OPENING (SLOT NO.)	INCHES
ER FOUND	KIND OF WATER	INSIDE DIAM MATERIAL THICKNESS INCHES FRO	M TO MATERIAL AND TYPE	DEPTH TO TOP 41-44 OF SCREEN
80 2	FRESH 3 SULPHUR " SALTY 4 MINERAL	6 14 2 GALVANIZED 12 . 188 0	0/37	FEET
15-18 1	☐ FRESH ³ ☐ SULPHUR ¹⁹ ☐ SALTY ⁴ ☐ MINERAL	O6 CONCRETE	61 PLUG	GING & SEALING RECORD (CEMENT GROUT. LEAD PACKER, ETC.)
20-23 1	FRESH 3 SULPHUR 24	17-18 1 ☐ STEEL 19 2 ☐ GALVANIZED	FROM TO	
25.28 1	SALTY 4 MINERAL FRESH 3 SULPHUR 29	3 ☐ CONCRETE 4 ☐ OPEN HOLE 24-25 1 ☐ STEEL 26	7 0/85	25
2	SALTY 4 MINERAL FRESH 3 SULPHUR 34	2 GALVANIZED 3 CONCRETE	26-29 30-3	33 80
2	SALTY 4 MINERAL	4 OPEN HOLE	LOCATIO	N OF WELL
UMPING TEST M	10 PUMPING RA 2 BAILER OO	7 17.18		STANCES OF WELL FROM ROAD AND
STATIC LEVEL	WATER LEVEL 25	1 PUMPING LEVELS DURING 2 RECOVERY	LOT LINE. INDICATE NORTH	H BY ARROW.
	-21 22-24 15 MINUTS	S 30 MINUTES 45 MINUTES 60 MINUTES 35-28 29-31 32-34 35-37		
010 FI	EET 075 FEET 075	FEET 073 FEET 073 FEET 073 FEET 12 WATER AT END OF TEST 42		
JO FI IF FLOWING. GIVE RATE RECOMMENDED	GPM.	FEET 1 CLEAR 2 CLOUDY DED 43-45 RECOMMENDED 46-49	N T	· 7mi 15'
RECOMMENDED	PUMP TYPE RECOMMENT PUMP OW DEEP SETTING	PUMPING .		22 20 639'
50-53			9	
FINAL	1 WATER SUPPLY 2 OBSERVATION N	5 ABANDONED, INSUFFICIENT SUPPLY VELL 6 ABANDONED POOR QUALITY		
STATUS OF WELL	3 TEST HOLE	7 🗍 UNFINISHED		
* *.	55-56 1 DOMESTIC	5 COMMERCIAL 6 MUNICIPAL		
WATER USE	0/ 3 IRRIGATION	7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING		
	OTHER	9 NOT USED		
METHO				
OF DRILLIN	3 ROTARY (REVE	RSE) 8 JETTING 9 DRIVING	DRILLERS REMARKS:	
	S AIR PERCOSSIO	LICENCE NUMBER	DATA 58 CONTRACTOR	59-62 DATE RECOVED 8 0 9 7 8 63
1000	TAL LIATER	SUPPLY LID 1558		SPECTOR SPECTOR
ADDRESS	490, ST1773	CIMIF	SE	K-m
SIGNATURE	RILLER OR BORER	LICENCE NUMBER	REMARKS:	
2/2 1	1:1		1101	C'85,83



The Ontario Water Resources Act WATER WELL RECORD

ntario	OTTTO THE 1. PRINT ONLY IN S	ECT BOX WHERE APPLICABLE	1 2	52258		<u> 50,0,3</u>	CON.	l l l l l l l l l l l l l l l l l l l	22 23 74
OUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOW	N. VILLAGE		CON	BLOCK TRACT, SURVEY)		30
			Stitte	ville, Ont	ario	KOA 3GO	DAY 19	_ мо 07	ss yr88
		R.R. #1	RC.	ELEVATION .	#c	BASIN CODE	1 1 1	1 1 1	IV L. L. L.
1	M 10 12	OG OF OVERBURDEN AN	TH H	V MATERIAL	S (SEE IN	31 (STRUCTIONS)			
	LC			K WIATERIAL		L DESCRIPTION		DEPTH -	FEET
NERAL COLOUR	COMMON MATERIAL	OTHER MATERIA		70-01				6	16
Brown	Clay	Boulders		Pack				16	20
Gray	Sand	Boulders		Loos	ken La	ward		20	27
Gray	<u>Limestone</u> Limestone	Gravel Seams Black Layers			ium Ha	_		27	65
Gray	LIBESCORE	51444 33,444							
							1,11,1		
31 11	<u> </u>	<u> </u>					ىيا لىل		<u>ل</u> ل
2 10	TER RECORD	51 CASING & OP	EN HOLE R	ECORD	Z SIZE	S) OF OPENING T NO)	31-33 DIAME	ì	
ATER FOUND AT - FEET	KIND OF WATER	INSIDE MATERIAL TH	WALL D	EPTH - FEET		RIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44
10-13	FRESH 3 LSULPHUR SALTY 4 MINERALS 6 GAS	10-11	.188	0 31	Š				FEET
	FRESH 3 GESULPHUR 19	3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC			61	PLUGGIN	G & SEAI	LING RECO	RD NT GROUT
20-23	FRESH 3 DSULPHUR 24	17-18 1 STEEL 19 2 GALVANIZED 3 CONCRETE		31 65	FROM	TO	MATERIAL AN		CKER ETC)
	SALTY 6 GAS FRESH 3 SULPHUR A D MINERALS	5 PLASTIC		27-30		10-13 14-17			
	SALIT 6 GAS	1 STEEL 2 GALVANIZED 3 CONCRETE				6-29 30-33 80			
	SALTY 6 GAS	4 □ OPEN HOLE 5 □ PLASTIC			<u> </u>				
PUMPING TEST ME	THOD 10 PUMPING RA	TE 11-14 DURATION OF PUMPI 15-16 10 GPM 1-HOURS	17-18 MINS			OCATION			
STATIC LEVEL	WATER LEVEL 25 END OF WATER	LEVELS DURING	MPING	IN DIA		OW SHOW DISTANC DICATE NORTH BY A		. FROM ROAD A	IN D
N 19-21			60 MINUTES 35-37			\			
II FEE	1 40 FEET 40 F		40 FEET						
IF FLOWING. GIVE RATE RECOMMENDED PU	GPM GPM RECOMMEND	FEET	1 CLOUDY						
☐ SHALLON	MP TYPE RECOMMEND PUMP SETTING	50 FEET RATE	5 GPM		٦.			178	, #
50-53	(A)				#	1			c
FINAL STATUS	water supply Description w	B ☐ ABANDONED, INSUFFIC F☐ ABANDONED POOR QU T☐ UNFINISHED				!			
OF WELL	3 TEST HOLE 4 RECHARGE WELL	L 9 🗆 DEWATERING			Ţ	22	KM		
WATER	DOMESTIC To STOCK I IRRIGATION	5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY			1	10+6	line		
USE	4 INDUSTRIAL	COOLING OR AIR CONDITION NOT US				,			
		♦ ☐ BORING							
METHOD OF	1 G CABLE TOOL 2 AOTARY (CONVE	RSE) # 🗍 JETTING			1			38	218
CONSTRUCT	ION 4 D ROTARY (AIR) 5 D AIR PERCUSSIO	□ DRIVING □ DIGGING [OTHER	DRILLERS REMAR	KS				
NAME OF WELL		WELL C	ONTRACTOR'S	DATA	58	1558	SEI	P 0 1 198	88
Capit	al Water Suppl	y Ltd.	1558	DATE OF INS	PECTION	INSPECTOR	751		
Capit ADDRESS BOX 4 NAME OF WE J. MO SIGNATURE OF	90 Stittsville	Ontario KOA	3G0 TECHNICIAN'S CE NUMBER	M REMARKS			· · · · · · · · · · · · · · · · · · ·		
J. Mo		TY	0096	OFFICE					
SIGNATURE O	Kala 1a	0 DAY 19 MO. C	7 ,88	9					

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Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7176823 Well Audit Number: *M08759* Well Tag Number: *A090650* This table contains information from the original well record and any subsequent updates.

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

is also available.

Well Location

Address of Well Location	
Township	GOULBOURN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 431407.00 Northing: 5014578.00
Municipal Plan and Sublot Number	_
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	Depth
General Colour	Wost Common Wateria	Other Materials	delieral Description	From	То

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	То	(Material and Type)	Placed

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter	Open Hole or material	From	То

Construction Record - Screen

Outside Material Depth Depth Diameter From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

Results of Well Yield Testing

After test of well yield, water was If pumping discontinued, give reason

Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

From To

Audit Number: M08759

Date Well Completed: March 30, 2010

Date Well Record Received by MOE: February 16, 2012

Updated: February 2, 2018

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Tags

- Environment and energy,
- <u>Drinking water</u>,
- Environment maps,
- Well water



Chris Ballard

Minister of the Environment and Climate Change

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Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act Tag#: A123817 A183817 of 5 Page Measurements recorded in: Metric ☐ Imperial Well Owner's Information Last Name / Organization E-mail Address First Name ☐ Well Constructed Ottown by Well Owner City of Mailing Address (Street Number/Name) Municipality Telephone No. (inc. area code) Province Postal Code ONTARIO Bhol 110 Laurier Ottava west Well Location Concession Address of Well Location (Street Number/Name) Township Mechael Complet drive City of Others pumpite City/Town/Village Postal Code Province Ontario Municipal Plan and Sublot Number UTM Coordinates | Zone | Easting Other NAD | 8 3 1 8 4 3 1 0 4 15 0 1 4 9 0 4 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft. Most Common Material Other Materials General Description From azvel Cre ·GC Sad 0 BIK a 1.83 Topsoil Clan 1.83 5:10 Results of Well Yield Testing Annular Space Type of Sealant Used (Material and Type) After test of well yield, water was Depth Set at (m/ft) Volume Placed Draw Down (m3/ft3) Clear and sand free Time Water Level Time Water Level (min) (m/ft) (m/ft) Other, specify 31 Cavele / Flyshand 0 Static If pumping discontinued, give reason .31 Level 9.14 1 1 9.14 11 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Well Use Method of Construction 4 4 ☐ Diamond
☐ Jetting Commercial
Municipal Cable Tool
Rotary (Conventional) Public ☐ Not used Duration of pumping ☐ Dewatering Domestic 5 5 hrs + Test Hole Monitoring
Cooling & Air Conditioning Rotary (Reverse) Driving Livestock Boring Digging Irrigation Final water level end of pumping (m/ft) 10 10 Air percussion Direct Mish Industrial Other, specify 15 15 If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material Depth (m/ft) ☐ Water Supply Recommended pump depth (m/ft) Inside Wall Diameter (cm/in) Thicknes (cm/in) 25 Replacement Well 25 From To Test Hole Recharge Well Recommended pump rate (l/min / GPM) 30 30 plestic ·39 5.2 0 9.45 Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (Vmin / GPM) 50 50 Alteration (Construction) Disinfected? 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Diameter Water Quality Depth (m/ft) Material (Plastic, Galvanized, Steel) Slot No. Abandoned, other, From To (cm/in) See Map Labelled BH 11-13 specify 6.03 physic 9.45 10 11 Other, specify Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) (Crivin) From To (m/ft) Gas Other, specify 10.91 11 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Well Contractor's Licence No. Business Name of Well Contractor Sampling Strata Soil Sar Business Address (Street Number/Name) 7 2 4 Comments Province Postal Code Business E-mail Address

ON PIBLIC GO WECOTS COST (Last Name, First Name) Well owner's Date Package Delivered Ministry Use Only information package delivered 9057649804 Well Technician's Licence No. Signature Beatty Brian z140280 Date Work Completed Yes 3616 2011100 ☐ No 01/1/18 DEC 0 9 2011 0506E (2007/12) @ Queen's Printer for Ontario, 2007 Ministry's Copy

Ontario Minist	ry of Well	A113259	Below)	Regulation 903 Ontar	Well Record
Measurements recorded in:	Metric Wimperial	A1133	259		Page of
Well Owner's Information	Ρ -	8/8/8			
First Name	ast Name / Organization	C1 <	E-mail Address	Carl	Well Constructed
Mailing Address (Street Number/Nar	zillana i	Municipality	Province	Postal Code Telep	hone No. (inc. area code)
#200-278	1 Lancoste	er Road	, Othow	a Dust K	IBIL'AT
Well Location Address of Well Location (Street Nur	mbor(Nama)	Township	•	Uoto Cons	
Terv Fox Re	1	Township	ash.	Con 10-P	L31
County/District/Municipality	1 1 - 6	City/Town/Village	1	Province	Postal Code
UTM Coordinates Zone , Easting	Northing	Municipal Plan and Sub	lot Number	Ontario	
NAD 8 3		PTRAHIOU	NRPSER 2		2 3
Overburden and Bedrock Materi General Colour Most Comp		cord (see instructions on th Other Materials			Depth (n@t)
General Colour Wost Comm	The Carlo	other Materials	Gene	ral Description	From To
yer for	racres pe	Herolai	-07 (IV)V	011-1	0, 105,
		1			
			\$ 11=11	idael Co	- M- N-D
H-721122 N	00000	A	08.415 M	icuael Co	copporate:
The laean	lumping =	3 1025/ DXI	Konest	a Brown	(1 50 mg
KGT 116540	Annular Space	400-101	ASKIDIOS	Results of Well Yield Te	66 JR 400
Depth Set at (m/ft)	Type of Sealant Used	Volume Placed	After test of well yield,	water was: Draw Do	own Recovery
From To	(Material and Type)	(m³/ft³)	☐ Clear and sand fr ☐ Other, specify		er Level Time Water Level n/ft) (min) (m/ft)
			If pumping discontinue	d, give reason: Static Level	
				1	1
			Pump intake set at (n	ı∕ft) 2	
			1		3
Method of Construction	Well		Pumping rate (I/min /	GPM) 4	4
☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting	Public Comr		Duration of pumping		
☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging	Livestock Test I	Hole Monitoring	hrs + n		5
Air percussion	☐ Industrial	ng a r in oonanoning		70	10
✓ Other, specifyConstruction Ro	Other, specify	Status of Well	If flowing give rate (I/n	nin / GPM) 15	15
Inside Open Hole OR Material	Wall Depth (m/ft)	☐ Water Supply	Recommended pump	depth (m/ft) 20	20
Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steet)	Thickness (cm/in) From To	Replacement Well Test Hole		25	25
		Recharge Well	Recommended pump (I/min / GPM)	ate 30	30
		Dewatering Well Observation and/or	Well production (I/min	/ GPM) 40	40
***************************************		Monitoring Hole □ Alteration		50	50
		(Construction) Abandoned,	Disinfected?	60	60
Construction Re	ecord - Screen	Insufficient Supply Abandoned, Poor		Map of Well Location	1
Outside Material Diameter (Plantic Cohemical Steel)	Slot No. Depth (molt)	Water Quality	Please provide a map	below following instructions o	n the back
(cm/in) (Plastic, Galvanized, Steel)	From To	Abandoned, other, specify		Media	hotal
		Other, specify		Land .	\mathcal{A}
			ال ا	W/ Wh	
Water Det Water found at Depth Kind of Water	799999999999999999999999999999999999999	Hole Diameter spth (m/ft) Diameter	1 5	/ 6/	L'action Story
(m/ft) Gas Other, spe	From	To (cm/in)	&	(\ <u>^</u> /	31 99 1
Water found at Depth Kind of Water	r: Fresh Untested	6"	10 1		10 con des
(m/fit) Gas Other, spe] ' /	on X	The conferse
(m/ft) Gas Other, spe			المر ا	1 80	
	r and Well Technician Inform		I /K	ビ	
Business Name of Well Contractor	112001	Well Contractor's Licence No.	/ ', '		
Business Address (Street Number/Na	me)	Municipality	Comments:	X O	***************************************
KP41	KICH	Chon		I	
Province Postal Code	Business E-mail Address		Well owner's Date P	ackage Delivered	Ministry Use Only
	me of Well Technician (Last Nam	e, Erst Name)	information package	Audi	No.
6138382176	of Technician and/or Contractor	JOHAY HAN	delivered	/ork Completed	z128583
vveii recrimician's Licence No. Signature	or restriction and/or Contractor	Date Submitted	No Po	WY MM LAHRES	velan 2 6 2012
0506F (2007/12) © Oueen's Printer for Ont	arin 2017	881-1-1-7-0	ALTO VIO	A first to I for I steep	FVIA V. III V. III V.

DEPTH (m)	20. 2	N Geotechnical Investigatio	<u>n - Ha</u>	_			11200	37 1	6240100-	MW 11-1
		10.0011	WA	zelde TER L	ean F EVE	Table Station, Ottawa, INA	FUM_	<u>(</u>	63401081 eodetic	ORIGINATED BY JF/J
ЕРТН (ō	,	TO.	LEVEL	6	VAPOUR		SAMP		CHECKED BY CM
	ELEVATION (m)	STRATA DESCRIPTION	STRATA PLOT	WATER LEY	DEPTH (ft)	CONCENTRATIONS Stel ppmv	TYPE	NUMBER	N-VALUE	WELL CONSTRUCTION
0	95.06		_			20 40 60 80	-		Z	
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	93.5	FILL: grey crushed sandy gravel Grey lean CLAY (CL)		-1	- :	▲ 100 200 300 400				100 mm, Schedule 40 PVC Casing, with Bentonite Seal
- 5 - 80 - 6 - 80 - 7 - 87 - 8 - 87	.4	Grey silty SAND (SM) Grey lean CLAY (CL)		-22 -24 -28- -30-	8-					

# *	Į, (CLIENT	City of Ottawa Geotechnical Investigation	- Haz	elde	an P	<u>ımping Station, Ottawa, ԹԻլ</u>	JE(UN	1Geodet	Page 2 of MW 11-1 1081 ORIGINATED BY JEJIN COMPILED BY JE
	r	DATES: BO	ORING November 16, 2011	WAT	ER L	EVEL	November 16, 2011 TPC E	EL	EVSAMPLES	CHECKED BY CM
	DEPTH (m)	ELEVATION (m)	STRATA DESCRIPTION	STRATA PLOT	WATER LEVEL	DEPTH (ft)	VAPOUR CONCENTRATIONS		N-VALUE	WELL
	-10			7777			● 20 40 60 80 ▲ 100 200 300 400			
N PUMP STN.GPJ SMART.GDT 11/30/11	-11- -12- -13- -15- -16-		Grey lean CLAY (CL)			-34 -36 -38 -40 -42 -46 -50 -52 -54 -56 -58				100 mm, Schedule 40. PVC Casing, with Sandpack 100 mm, Schedule 40. PVC Casing, with Auger Cuttings
16340108.	20					54-				
AN-MW		Ÿ Ground	water Level CI	19	•	C	128583		JAN 2 6	2012

, CI	LIENT	City of Ottawa Geotechnical Investigation -	Нат	elde	an Pi	PR	M. Oif	im G	eodetic.	ORIGINATED BY JE
LC	OCATION	RING November 16, 2011	WAT	ER L	EVEL	November 16, 2011 Tr	C E	LEV.		CHECKED BYCN
DEPTH (m)	ELEVATION (m)	STRATA DESCRIPTION	STRATA PLOT	WATER LEVEL	DEPTH (ft)	VAPOUR CONCENTRATIONS ● %LEL ▲ ppmv		TYPE SW NUMBER	LES	WELL CONSTRUCTION
						● 20 40 60 80 ▲ 100 200 300 400				
-30 - 31 -		Grey silty sand (SM) with gravel TILL			100-					
	63.4	End of Water Well Borehole			104					
-32		Monitoring Well Installed			106		-			
-33					108-					
	- - - - - -				110-					
-34- 			***************************************		-112- -114-					
-35-					116		-			
-36-					118					
- -	1				120		-			
-37-					122					
-38					124		-			· · · · · · · · · · · · · · · · · · ·
					-126- -128-					
					-130-					

Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of the Environment Regulation 903 Ontario Water Resources Act A 094100 A094100 9262 Page 2 of 5 ☐ Imperial Measurements recorded in: Metric Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed City of Ottawa by Well Owner Mailing Address (Street Number/Name) Municipality Telephone No. (inc. area code) 110 Counter Blod west OTTAWA ONTARIO Well Location Address of Well Location (Street Number/Name) Michael Caupled drivo. City of Ottowa lumps sahan City/Town/Village Postal Code Province Ontario Municipal Plan and Sublot Number UTM Coordinates | Zone | Easting , Northing NAD 8 3 1 8 43 1 04 8 50 14906 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material Other Materials General Description Grzvel 61 Sand 0 61 1.83 Topsoil 5;14. 1.83 Loose. Annular Space Results of Well Yield Testing Type of Sealant Used (Material and Type) After test of well yield, water was: Recovery Depth Set at (m/ft) Volume Placed Draw Down Water Level Time Water Level (m3/ft3) Clear and sand free Time Other, specify .31 Flushmount/ Convide If pumping discontinued, give reason .31 4.27 1 4.27 6.1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Method of Construction Well Use 4 Cable Tool Public Commercial Not used Duration of pumping Rotary (Conventional) Jetting Domestic Municipal Dewatering 5 5 hrs + Rotary (Reverse) Driving Livestock Test Hole Monitoring Boring Final water level end of pumping (m/ft) ☐ Digging Irrigation Cooling & Air Conditioning 10 10 Air percussion Direct push Industrial Other, specify 15 15 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness Denth (m/ft) ☐ Water Supply Recommended pump depth (m/ft) Diamete (cin/in) Replacement Well 25 25 From To (cm/in Test Hole Recommended pump rate (l/min / GPM) 30 30 Recharge Well 5.2 4.57 plastice 39 0 Dewatering Well 40 40 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 Alteration Disinfected? (Construction) Abandoned, Insufficient Supply 60 60 Construction Record - Screen Map of Well Location Abandoned, Poor Outside Depth (m/ft) Water Quality Diameter (cm/in) Slot No Abandoned, other, (Plastic, Galvanized, Steel From To specify 6.03 4.57 Plagne 10 Labelled BHII-12 Other, specify Water Details Hole Diameter Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify 6.1 10.92 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No Strata Soil Sampling
Business Address (Street Number/Name) 7 2 4 1 Comments Municipality 147-2 west Beaver Creek Rd
Province Postal Code Business E-mail Address Kichmond Hill ON LHBITCE Wrecords@stratasoil.com

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) Date Package Delivered Well owner's Ministry Use Only information

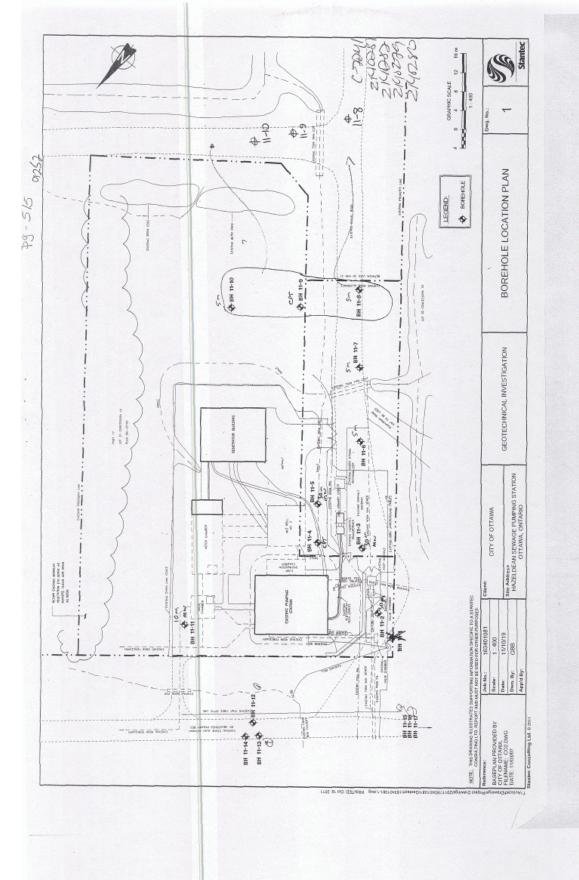
3 6 / 6 h 0506E (2007/12) © Queen's Printer for Ontario, 2007 Ministry's Copy

9057699809 Begty Brandwell Technician's Licence No. Signature of Technician and/or Contract

delivered z140279 Date Work Completed Yes DEC 0 9 2011 □ No 011110 2011110BB

Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of the Environment Regulation 903 Ontario Water Resources Act Tag#: A123774 A123774 017 (2 Page 4 of 5 Measurements recorded in: Metric Imperial Well Owner's Information Last Name / Organization E-mail Address □ Well Constructed City of by Well Owner Otterra. Mailing Address (Street Number/Name) Postal Code Telephone No. (inc. area code) Municipality Province OTHAWA 110 Laurier Blod ON. Well Location Address of Well Location (Street Number/Name) Concession City of Ottowa Pumpy Stohon on Michael Postal Code Ottowa Ontario UTM Coordinates | Zone | Easting | Northing | NAD | 8 | 3 | 1 | 8 | 4 | 3 | 0 | 9 | 3 | 9 | 5 | 0 | 1 | 4 | 8 | 1 | 8 Municipal Plan and Sublot Number Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) From To Most Common Material Other Materials General Description Cowel 0 ,61 Suf Corey -61 BIN Topsoil 5:14 1.83 Annular Space Results of Well Yield Testing After test of well yield, water was: Draw Down Recovery Depth Set at (m/ft) From To Type of Sealant Used (Material and Type) Volume Placed Time Water Level Time Water Level (m3/ft3) Clear and sand free Other, specify 0 .31 Flushout / converte Statio If pumping discontinued, give reason: 4.27 3 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Well Use Method of Construction 4 4 Public Public Commercial Diamond Not used Duration of pumping Rotary (Conventional) Jetting Domestic Municipal Dewatering 5 hrs + Test Hole Monitoring Livestock Rotary (Reverse) Driving Final water level end of pumping (m/ft) Boring Digging Irrigation Cooling & Air Conditioning 10 10 Air percussion Dived prsh ☐ Industrial ☐ Other, specify 15 15 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickne Depth (m/ft) ☐ Water Supply Recommended pump depth (m/ft) Diamete Replacement Well
Test Hole
Recharge Well 25 25 From To (cm/in Recommended pump rate (Vmin / GPM) 30 30 plaste 4.57 5.2 39 0 Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (Vmin / GPM) 50 50 ☐ Alteration Disinfected? (Construction) 60 Abandoned, Insufficient Supply ☐ Yes ☐ No Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Depth (m/ft) Material Diamete (cm/ln) Slot No Abandoned, other, (Plastic, Galvanized, Steel) To See Mp Labelled BH 11-16 specify plastic 6.1 6.03 4.57 10 Other, specify Hole Diameter Water Details Diamete (cm/in) Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify 10.92 6 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor
Strata Soil Well Contractor's Licence No Sampling 7241 Soil Business Address (Street Number/Name) Comments Municipality 147-2 west Beaver creek Rd Richmond
Province Postal Code Business E-mail Address LI4BILCG ON Date Package Delivered Ministry Use Only Well owner's Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 90576998 Boat Bran Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted information package delivered Z140281 Date Work Completed Yes 36/16 BONNINGER ☐ No 20110107 DEC 0 9 2011 0506E (2007/12) © Queen's Printer for Ontario, 2007

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Well Tag No. (Place Sticker and/or Print Below) Well Record the Environment Regulation 903 Ontario Water Resources Act A123841 Tag#: A123841 9252 Page 3 of 5 Metric Measurements recorded in: Well Owner's Information Last Name / Organization E-mail Address □ Well Constructed Ottawa City by Well Owner Mailing Address (Street Number/Na Municipality Postal Code Telephone No. (inc. area code) Blood OTTAWA ON 110 Course Well Location Michael Coupled drive. Address of Well Location (Street Number/Name) Concession City of Ottoma Pumpy Station Postal Code G Hawa Municipal Plan and S Ontario UTM Coordinates | Zone | Easting | Northing | NAD | 8 | 3 | 1 | 8 4 | 3 | 0 | 9 | 6 | 0 | 5 | 0 | 1 | 4 | 8 | 0 | an and Sublot Number Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (hyft) Most Common Material Other Materials General Description BHK 0 1.83 Topsoil S: 14. 1.83 Results of Well Yield Testing Annular Space Type of Sealant Used (Material and Type) After test of well yield, water was: Draw Down Depth Set at (m/ft) Recovery Volume Placed (m3/ft3) Clear and sand free Water Level Time Water Level Other, specify Flyshand/ Covede 0 .31 Statio If pumping discontinued, give reason: 3 Benson 64 1 8 Say Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Method of Construction Well Use Public 4 4 Commercial Not used Duration of pumping Domestic ☐ Dewatering Monitoring Rotary (Conventional) ☐ Jetting
☐ Driving Municipal Municipal 5 5 Livestock hrs + Rotary (Reverse) Test Hole Mon
Cooling & Air Conditioning Irrigation
Industrial
Other, specify Final water level end of pumping (m/lt) Digging Boring 10 10 Air percussion Other, specify Drew push 15 15 If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 20 ☐ Water Supply Deoth (m/ft) Inside Open Hole OR Material Wall Recommended pump depth (m/ft) Diamete (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickne Replacement Well 25 25 To From (cm/in Test Hole
Recharge Well Recommended pump rate (Vmin / GPM) Plastre 30 30 .39 5.2 6.71 Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (Vmin / GPM) 50 50 Disinfected? (Construction) 60 Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Outside Please provide a map below following instructions on the back. Deoth (m/ft) Diameter Slot No Abandoned, other, (Plastic, Galvanized, Steel (cm/in) specify 6.03 plashe 10 Other, specify Water Details Hole Diameter Diamete (cm/ln) Water found at Depth Kind of Water: Fresh Untested From To (m/ft) Gas Other, specify 8 Water found at Depth Kind of Water: Fresh Untested 10.01 (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No Soil Sampling 7 2 41 Comments Municipality 147-2 west Beaver creek Rd Province Postal Code Business E-mail Address Richmond Hill ON L/4 B/I C/6 wrecords estratasoil com

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

9957699309

Well Technician's Licence No. Signature of Jechnician and/or Contractor Date Submitted Ministry Use Only Well owner's Date Package Delivered information package delivered z140282 Date Work Completed Yes 3 6 1 6 81014 H 10 BB DEC 0 9 2011 ☐ No 20111107 Ministry's Copy

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Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7238877 Well Audit Number: *C26407* Well Tag Number: *A122834* This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	GOULBOURN TOWNSHIP
Lot	030
Concession	CON 10
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 430951.00 Northing: 5014827.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Ganaral Calaur	Most Common Material	Other Materials	Ganaral Description	Depth	Depth
General Colour	Widst Common Material	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	То	(Material and Type)	Placed

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter	Open Hole of Illaterial	From	То

Construction Record - Screen

Outside Material Depth Depth Diameter From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7543

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate

Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Audit Number: C26407

Date Well Completed: November 18, 2014

Date Well Record Received by MOE: March 23, 2015

Updated: February 2, 2018

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Tags

- Environment and energy,
- <u>Drinking water</u>
- Environment maps,
- Well water



Chris Ballard

Minister of the Environment and Climate Change

Ministry of the Environment and Climate Change

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- Home and community
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MAY 18 1951

Basin 215

The Well Drillers Act GEOLOGICAL ERAFUH
Department of Mines, Province of OntarioEPARTMENT OF MINES

		4.25		
Pipe and Casing Record		Pumping Test		
Casing diameter(s)	Developed Capacity . 7. Duration of Test	twell	 Z.24.7.	
,	Water Record			
Kind (fresh or mineral) Quality (hard, soft, contains iron, sulphur etc.) Appearance (clear, cloudy, coloured) For what purpose(s) is the water to be used?	economic of the contract of th		Kind of Water	No. of Fee Water Ris
What is source of contamination?	n?gvial			
How far is well from possible source of contamination What is source of contamination?	n?gvial			
How far is well from possible source of contamination What is source of contamination? Enclose a copy of any mineral analysis that has been Well Log	made of water	Loca In diagram belo	w show dist	
How far is well from possible source of contamination What is source of contamination?	From To O ft. 1/3 1/	Loca In diagram belo	w show dist	

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Anna Graham, M.E.S.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Assessor

EDUCATION

McGill University, B.Sc. 2010 Biology and English Literature

Queen's University, M.E.S. 2012 Environmental Studies

EXPERIENCE

2014 to Present

Paterson Group Inc.

Consulting Engineers Environmental Assessor

2013 to 2014

Civica Infrastructure Inc.

Municipal Water Resources Engineering - Vaughan Project Support Coordinator, Project Proposal Writer

PROJECTS

Environmental Impact Statements – various, Ottawa Phase I Environmental Site Assessments – various, Ottawa Flood Mapping Project Coordination – Credit Valley Conservation Authority Manhole Survey Tool Design and Data Processing – City of Markham Proposal Preparation – Utilities Kingston Inflow and Infiltration Study, City of Peterborough Drainage Study

Mark S. D'Arcy, P. Eng.

patersongroup

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