

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

patersongroup

Phase I Environmental Site Assessment

Vacant and Agricultural Property
405 – 425 Huntmar Drive and 3001 Palladium Drive
Ottawa, Ontario

Prepared For

Taggart Group of Companies

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

January 8, 2014

Report: PE3146-1

Table of Contents

EXECUTIVE SUMMARY	ii
1.0 INTRODUCTION	1
2.0 PHASE I PROPERTY INFORMATION.....	2
3.0 SCOPE OF INVESTIGATION	3
4.0 RECORDS REVIEW	4
4.1 General.....	4
4.2 Environmental Source Information	5
4.3 Physical Setting Sources	8
5.0 SITE RECONNAISSANCE	11
5.1 General Requirements.....	11
5.2 Specific Observations at Phase I Property	11
6.0 REVIEW AND EVALUATION OF INFORMATION	14
6.1 Land Use History	14
6.2 Conceptual Site Model.....	15
7.0 CONCLUSIONS	17
8.0 STATEMENT OF LIMITATIONS	18
9.0 REFERENCES	19

List of Figures

Figure 1 - Key Plan
Figure 2 - Topographic Map
Drawing PE3146-1 - Site Plan
Drawing PE3146-2 - Surrounding Land Use Plan

List of Appendices

Appendix 1 Chain of Title
Current Plan of Survey
Aerial Photographs
Site Photographs

Appendix 2 MOE Freedom of Information Request Response
TSSA Correspondence
MOE Well Records and Response
City of Ottawa HLUI Search Results

Appendix 3 Qualifications of Assessors

EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Taggart Group of Companies to conduct a Phase I Environmental Site Assessment (ESA) of the vacant properties located at 405 – 425 Huntmar Drive and 3001 Palladium 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.

According to the historical research, the subject site and surrounding properties have been used as farmsteads and agricultural lands. A quarry began operating between 1959 and 1976 further to the west of the subject site, where lands were previously forested. More recent commercial development, circa 1990s, has occurred further south, on the opposite side of Highway 417. No concerns were identified with the historical use of the subject site or any lands within the Phase I study area.

Following the historical research, a site inspection was conducted of the subject site and Phase I ESA study area. The subject site is predominantly still used for agriculture with vacant and forested portions of land. Neighbouring properties were either agricultural (north), industrial (west), forested (southwest) or undergoing development (east and southeast). No potentially contaminating activities (PCAs) were identified on site or in the Phase I – ESA study area and, therefore, no areas of potential environmental concern (APEC's) were identified by this Phase I – ESA.

Conclusion

The results of the historical research, personal interviews, and the site inspection did not identify any potential environmental concerns with respect to the subject site or within the Phase I ESA study area. Based on the results of the assessment, **in our opinion, a Phase II Environmental Site Assessment is not required for the property.**

1.0 INTRODUCTION

At the request of Taggart Group of Companies, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) of the property located at 405 – 425 Huntmar Drive and 3001 Palladium 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. Jeff Parkes of Taggart Group of Companies whose office is located at 225 Metcalfe Street, Suite 708, Ottawa, Ontario. Mr. Parkes can be reached by telephone at (613) 234-4386.

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 agreed scope-of-work and 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.

2.0 PHASE I PROPERTY INFORMATION

Address:	405 – 425 Huntmar Drive and 3001 Palladium Drive, City of Ottawa.
Legal Description:	Part of Lots 3 and 4, Concession 1, Geographic Township of Huntley, City of Ottawa.
Property Identification Number:	04330-0286, 04330-0369, 04330-0660.
Location:	The subject site is located on the west side of Huntmar Drive, north of Highway 417. The subject site is shown on Figure 1 - Key Plan following the body of this report.
Latitude and Longitude:	45° 17' 45" N, 75° 56' 40" W.

Site Description:

Configuration:	Irregular.
Site Area:	72.2 hectares (approximate).
Zoning:	DR – Development Reserve Zone.
Current Use:	Vacant and forested.
Services:	The subject site is located to the north of a municipally serviced area. Future development of the site will include municipal services.

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.

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

According to the aerial photographs and documents reviewed, the land was never formerly developed, however, a farmstead was present on site as early as 1947 and as late as 2011. The western portion of the site ceased to be used for agriculture in the 1990s.

For the purposes of this report, and based on the above information, the site is considered to have never been formerly developed.

Fire Insurance Plans

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

City of Ottawa Street Directories

City directories do not exist for the general area of the subject site and neighbouring properties.

Chain of Title

Paterson verified the current land title for the subject property with Read Abstracts Limited. A title search was conducted for the PINs constituting the subject properties. According to the chain of title dated December 6, 2013, the current owner of the three (3) subject parcels of land is West Ottawa Land Holdings Inc. The lands were owned by private individuals as early as 1828 up to the 1990s.

The chain of title did not identify any potential environmental concerns with respect to the subject site. A copy of the title search is included in Appendix 1.

Previous Engineering Reports

Paterson has conducted a number of environmental site assessments in the vicinity of the subject site, including a Phase I ESA for 405 and 425 Huntmar Drive. These were reviewed as part of this assessment. The reports did not identify any concerns with subject lands or any neighbouring sites and Phase II ESAs were not recommended.

Current Plan of Survey

A plan of survey, prepared by Stantec Geomatics in 2013, was reviewed as part of this assessment and shows the subject site in its current configuration.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on October 21, 2013. 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.

Ontario Ministry of Environment (MOE) Instruments

A request was submitted to the MOE Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOE issued instruments for the site. A certificate of approval for 405 Huntmar Drive was issued for two (2) sedimentation ponds to provide normal water quality and to attenuate post-development peak flows.

MOE 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 coal gasification plants were identified within the Phase I study area.

MOE Incident Reports

A request was submitted to the MOE Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOE for the site or adjacent properties. No incident reports were available for the subject site.

MOE Waste Management Records

A request was submitted to the MOE Freedom of Information office for information with respect to waste management records. The company 2049824 Ontario Inc. which owned 405 Huntmar Drive between 2004 and 2012 had an active waste generator number, D001, for light fuels (Waste Class 221 – Gasoline, kerosene, diesel tank drainings/washings/bottoms, spill clean-up residues).

MOE Submissions

A request was submitted to the MOE Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOE. No MOE submission records were available for the subject site.

MOE Brownfields Environmental Site Registry

A search of the MOE 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 the lands within the Phase I study area.

MOE 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. No active or closed waste disposal sites or any of the other listed sites were identified in the vicinity of the subject site.

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 (MNR) on October 21, 2013. The response from MNR indicated that there were no recorded natural features or 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 October 21, 2013 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA indicated that no records were found in the TSSA database for fuel storage tanks at the searched addresses. 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. No landfill sites were identified within the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A requisition form was sent to the City of Ottawa on November 4, 2013 to request information from the City’s Historical Land Use Inventory (HLUI) database for the subject property. The response was received from the City of Ottawa on December 11, 2013. The search revealed that there was one activity associated with the site (405-425 Huntmar Drive and 3001 Palladium Drive) in the HLUI database. A total of seven (7) activities were identified on lands within 50 m of the subject site.

The distances/orientations with respect to the site listed in Table 1 are based on depicted locations in the overview map attached by the City. A copy of the City’s response has been included in Appendix 2.

Table 1: HLUI Identified Activities			
Address	Name / Activity	Distance / Orientation from site	Potential Environmental Concern (Y / N)
Carp Road	Spratt Sand & Gravel (Sand and Gravel Pits)	Mislabelled as On-site	N
2300 Carp Road	Spratt Aggregates (Stone Quarries)	Adjacent West	N
Not Specified	Unnamed Quarry (Stone Quarries)	Adjacent West	N
2300 Carp Road	Young's Paving Inc. (Other Petroleum and Coal Products Industries)	Adjacent West	N
2300 Carp Road	Canada Building Materials – Ready Mix Concrete (Ready Mix Concrete Industry)	Adjacent West	N
410 Huntmar Road	Cavanaugh Construction Limited (Structural and Related Work)	Adjacent east	N

No potentially contaminating activities were identified on site in the HLUI search. The activity shown as on-site is mislabelled as the street address and UTM coordinates for this activity are listed as being located 700 m further west. Given the information gathered from the HLUI, aerial photographs and site visit, the activities of the adjacent properties to the west and east are not considered to have impacted the subject property.

4.3 Physical Setting Sources

Aerial Photographs

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

- 1947 A farmstead is present on the subject site which is being used for agricultural purposes. Farmsteads and agricultural lands surround the subject site. A small forested area is visible near the creek that passes through the southwestern portion of the property.
- 1959 No significant changes have been made to the subject site or surrounding properties. The lands adjacent to the west of the subject site are densely forested.

-
- | | |
|------|--|
| 1976 | No significant changes have been made to the subject site or surrounding properties. Quarry operations are visible further to the west, along Carp Road. Residential properties are being developed further to the south. |
| 1988 | No significant changes have been made to the subject site. Highway 417 is now visible along the southern property boundary. Development has increased along Carp Road. |
| 2002 | Agricultural activities appear to have ceased on the western most portion of the subject site. Quarry operations have expanded on the lands to the west and the Canadian Tire Centre is visible further to the east. |
| 2011 | (City of Ottawa Website) Quarry operations have expanded on the lands to the west of the subject site which appears to still have the farmstead and active agricultural lands covering the majority of the property. The lands adjacent to the east appear to be vacant and commercial development is visible further to the south, on the opposite side of Highway 417. |

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 gently downward towards the northeast. According to the maps, the nearest water body is a creek that passes through the subject site in the southwest corner and the Carp River, located approximately 1 km to the northeast of the subject 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. According to this physiographic map, the site is located in the St. Lawrence Lowlands. 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 located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.

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 of the site consists of Paleozoic interbedded limestone and shale of the Verulam Formation. Overburden soils are shown as offshore marine sediments (clay and silt), with a drift thickness on the order of 15 to 25 m.

Water Well Records

A search of MOE’s online water well records database was completed on October 22, 2013, for all drilled wells within 300 m of the subject site. There is a record of one (1) well on the subject property, drilled in 1957, and seven (7) other wells on the neighbouring properties within the Phase I ESA study area. The wells are linked to farmsteads, quarry operations and more recently, the development of the palladium auto park south of Highway 417.

Water Bodies and Areas of Natural Significance

There is a stream which passes through the southwestern corner of the subject site which connects to the Carp River. The majority of the study area consists of agricultural, vacant or forested land. Past known land use in the study area has not changed. The Carp River, which is approximately 1 km northeast of the subject site, is the closest water body outside of the Phase I study area. No areas of natural significance are known to exist within the Phase I study area.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

The site assessment was conducted on November 14, 2013 between 1:30 PM and 3:30 PM. Weather conditions were mostly cloudy with a temperature of approximately 8° C. Xavier Redhead from the Environmental Department of Paterson Group conducted the site investigation. Access was provided to the entire subject site. 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 investigation.

5.2 Specific Observations at Phase I Property

Buildings and Structures

There are currently no buildings on the subject property but there are temporary structures and trailers associated with the adjacent residential development to the east and adjacent quarry operations to the west. These structures and trailers are located on the eastern portion of the site along Huntmar Drive and in the centre of the subject site, as shown on the Site Plan, following the text of this report.

Storage Tanks

An aboveground storage tank (AST) fitted with an overfill protection unit was observed next to a trailer located in the centre of the subject site. This trailer was brought to the site in August 2013. Various propane tanks and what appears to be a sewage holding tank was observed near the structures and trailers located on the eastern portion of the subject site; these trailers were brought to the site in May 2013. No evidence of underground storage tanks (USTs) or evidence of other ASTs, fuel or chemical storage was observed on the subject site.

Water Source

According to water well records, a well was drilled in 1957 on the subject site for a private property owner. Neighbouring farmsteads to the south and east are shown to have had wells drilled in 1957, 1962 and 1964. Properties south of Highway 417 are currently serviced by the City of Ottawa water system. No well was observed on site during the site visit.

Unidentified Substances

There were no unidentified substances on the exterior of the subject property at the time of this assessment.

Groundwater Monitoring Wells

No groundwater monitoring wells were observed on the subject property at the time of this assessment.

Sewage Works

There appears to be a sewage holding tank on the subject site linked to the temporary structures used as construction offices for the residential development east of Huntmar Drive. The residential site adjacent to the north is suspected to be serviced by a private sewage system. Properties south of Highway 417 are currently serviced by the City of Ottawa sewer system.

Waste Storage and Disposal

The domestic waste generated on-site by the temporary construction offices and trailers are disposed of by a private contractor.

Railway Lines

There are no railway lines within the Phase I study area.

Ozone Depleting Substances (ODSs)

There were no potential sources of ODSs observed on site during the assessment.

Site Features

The subject site is a combination of agricultural, vacant and forested parcels of land that were, in most part, previously used for agricultural purposes. Site drainage consists primarily of infiltration and runoff to ditches. Remnants of the farmstead, now demolished, are visible on the eastern portion of the site; scattered piles of concrete and brick debris, concrete pads for a silo and storage building. A berm of fill is present behind the construction trailers on the eastern portion of the subject site and the material is believed to originate from grading the area used by the trailers and associated parking area.

Potentially Contaminating Activities (PCA)

The site visit did not identify any Potentially Contaminating Activities at 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 - Farmstead and agricultural lands followed by Richardson Side Road;
- South - Palladium Drive and Highway 417, commercial development and forested lands;
- East - Huntmar Drive followed by residential subdivision under development;
- West - Carp Road quarry followed by Carp Road.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. The actual activities observed on the immediately adjacent portion of the quarry operation are limited and not considered to pose a concern to the subject site. Current land use in the Phase I Study area is illustrated on Drawing: PE3146-2 – Surrounding Land Use Plan in the Figures section of this report, following the text.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Land Use History

The following table indicates the current and past uses of the site as well as any associated potentially contaminating activities dating back to the first developed use of the site (if present).

Table 2 - Land Use History			
Time Period	Land Use	Potentially Contaminating Activities	Potential Environmental Concerns
405 Huntmar Drive			
1947 (earliest air photo reviewed)-2002	Agricultural (Undeveloped)	None	None
2005-2011	Vacant (Undeveloped)	None	None
2013	Vacant (Construction Offices)	None	None
425 Huntmar Drive			
1947 (earliest air photo reviewed)-1988	Agricultural (Undeveloped)	None	None
2002-2013	Agricultural / Forested (Undeveloped)	None	None
3001 Palladium Drive			
1947 (earliest air photo reviewed)-1988	Agricultural / Forested (Undeveloped)	None	None
2002-2008	Vacant / Forested (Undeveloped)	None	None
2009-2013	Agricultural / Forested Undeveloped	None	None

Potentially Contaminating Activities (PCAs)

The site visit did not identify any Potentially Contaminating Activity in the Phase I study area.

Areas of Potential Environmental Concern (APECs)

No Potentially Contaminating Activities were identified on the subject site or within the Phase I study area. As a result, there are no areas of potential environmental concern associated with the subject property.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified, since no APEC's were identified in the Phase I study area.

6.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, drift thickness in the area of the subject site is estimated to be on the order of 15 to 25 m. Overburden soils are shown as offshore marine sediments (clay and silt).

Contaminants of Potential Concern

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

Existing Buildings and Structures

There are no buildings on site. Temporary structures, trailers and a construction office are present on the subject property.

Water Bodies

The stream which passes through the subject site and the Carp River, approximately 1 km to the northeast, are the closest water bodies.

Areas of Natural Significance

No areas of natural significance were identified on the site or in the Phase I study area.

Drinking Water Wells

According to water well records, wells have been drilled within the Phase I study area and in 1957 one was drilled on the subject site. This well was not located during the assessment.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is mainly agricultural, forested or vacant. There is a residential subdivision under development adjacent to the east, quarry operations to the west and commercial development adjacent to the south of the subject site. No concerns were identified with the current neighbouring land use. It is our understanding that there is a commercial development planned for the property itself.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there were no Potentially Contaminating Activities or Areas of Potential Environmental Concern identified at the subject site or within the Phase I ESA study area.

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 PCAs or APECs associated with 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.

7.0 CONCLUSIONS

Assessment

Paterson Group was retained by Taggart Group of Companies to conduct a Phase I Environmental Site Assessment (ESA) of the vacant properties located at 405 – 425 Huntmar Drive and 3001 Palladium 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.

According to the historical research, the subject site and surrounding properties have been farmsteads and agricultural lands. A quarry began operating between 1959 and 1976 further to the west of the subject site, where lands were previously forested. More recent commercial development, circa 1990s, has occurred further south, on the opposite side of Highway 417. No concerns were identified with the historical use of the subject site or any lands within the Phase I study area.

Following the historical research, a site inspection was conducted of the subject site and Phase I ESA study area. The subject site is predominantly still used for agriculture with vacant and forested portions of land. Neighbouring properties were either agricultural (north), industrial (west), forested (southwest) or undergoing development (east and southeast). No potentially contaminating activities (PCAs) were identified on site or in the Phase I – ESA study area and, therefore, no areas of potential environmental concern (APEC's) were identified by this Phase I – ESA.

Conclusion

The results of the historical research, personal interviews, and the site inspection did not identify any potential environmental concerns with respect to the subject site or within the Phase I ESA study area. Based on the results of the assessment, **in our opinion, a Phase II Environmental Site Assessment is not required for the property.**

8.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with the agreed scope-of-work, in compliance 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 Taggart Group of Companies. Permission and notification from Taggart Group of Companies and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Xavier Redhead, B.Eng.

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



Report Distribution:

- Taggart Group of Companies (6 copies)
- Paterson Group (1 copy)

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 mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MOE Freedom of Information and Privacy Office.
MOE Municipal Coal Gasification Plant Site Inventory, 1991.
MOE document titled “Waste Disposal Site Inventory in Ontario”.
MOE Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MOE 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.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
The City of Ottawa eMap website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, October 2013.
Current Plan of Survey, prepared by Stantec Geomatics (2013).
Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3146-1 – SITE PLAN

DRAWING PE3146-2 – SURROUNDING LAND USE PLAN

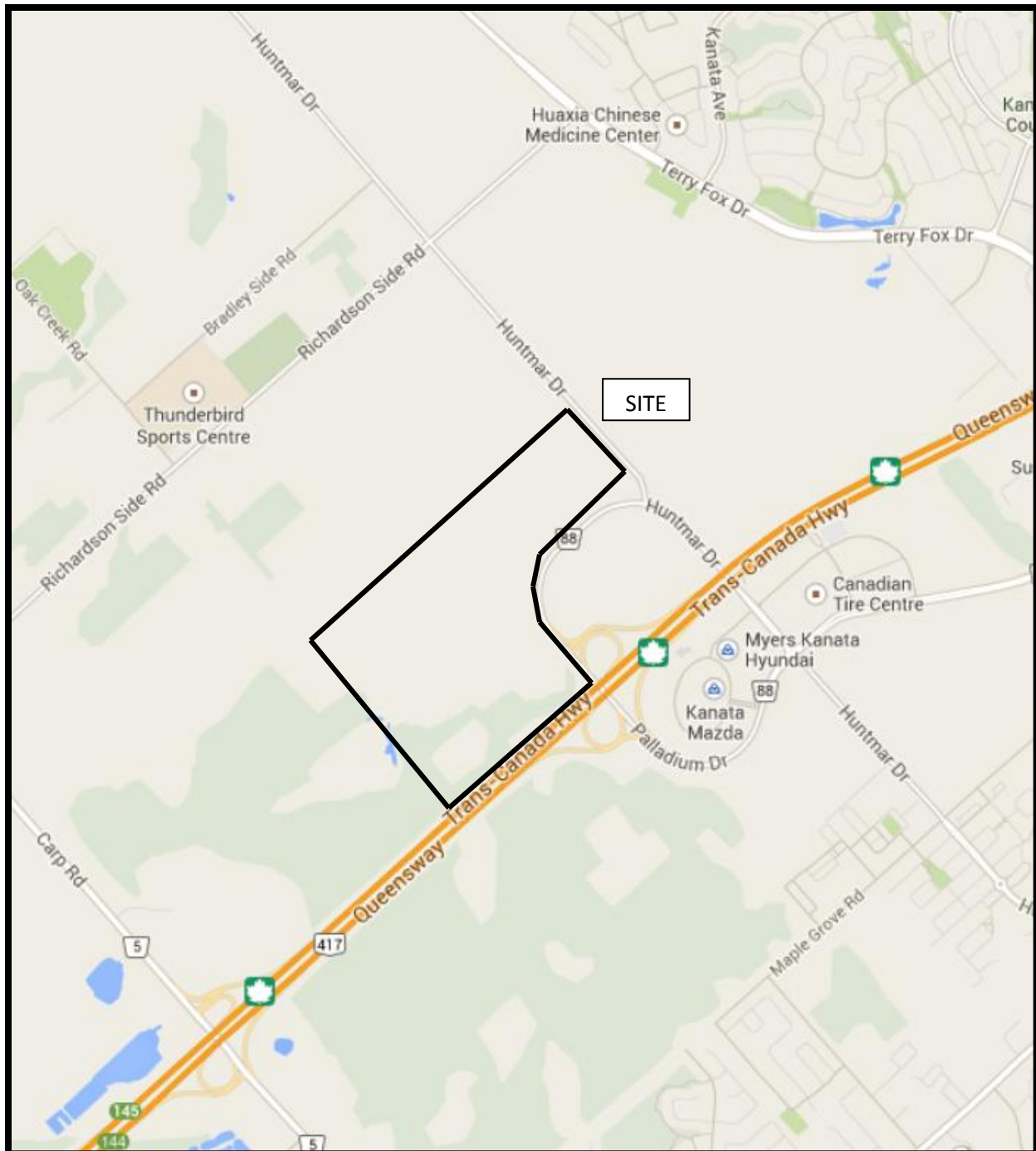


FIGURE 1
KEY PLAN

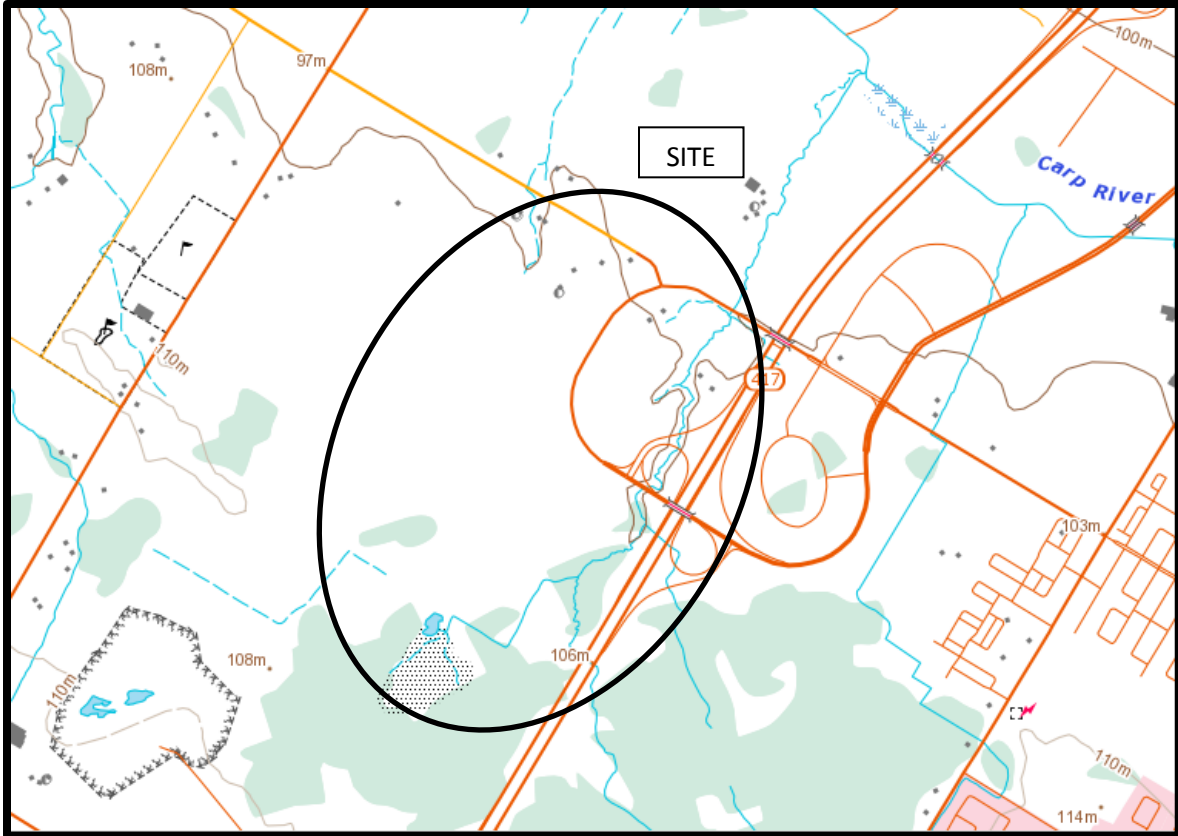
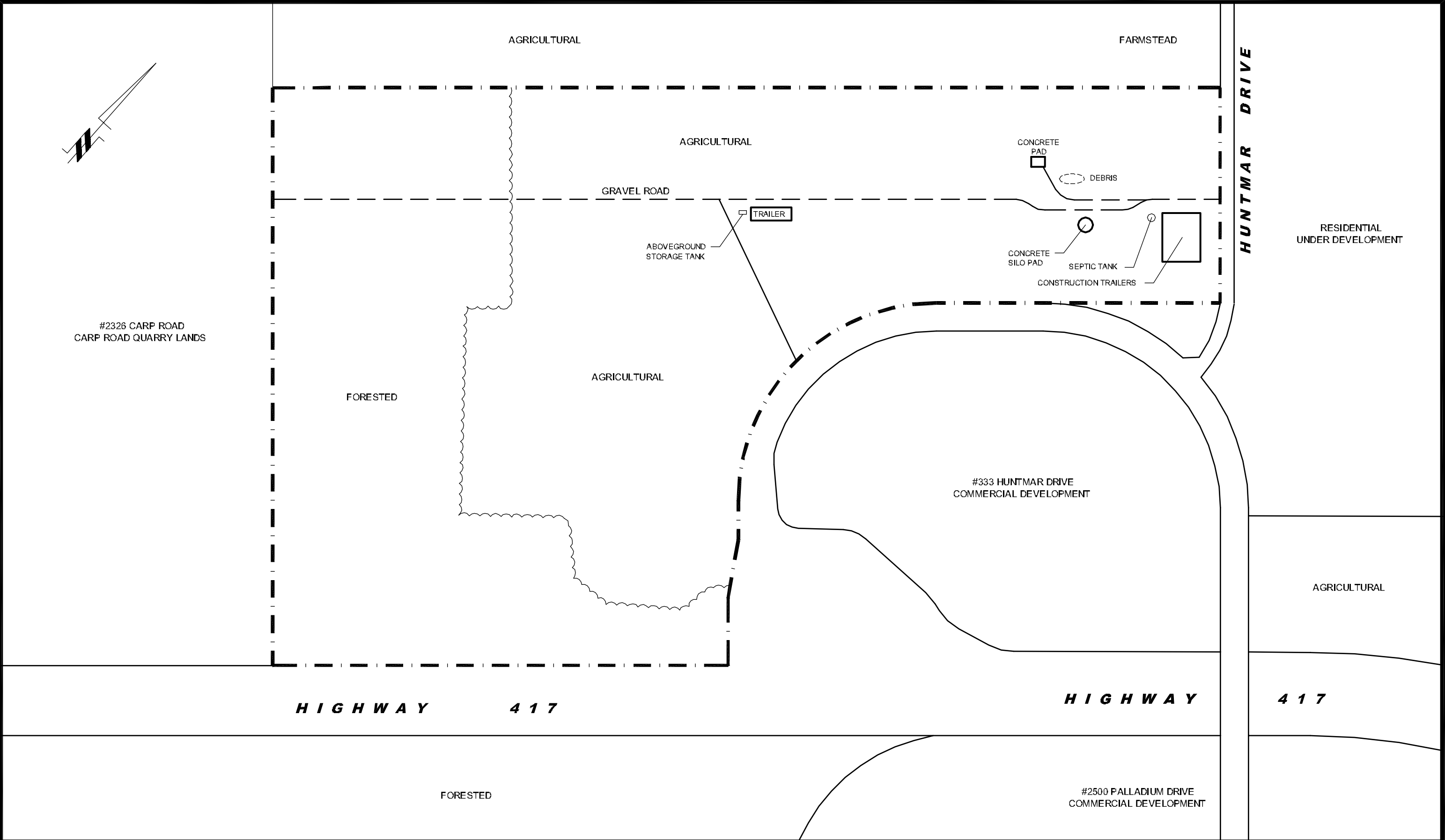


FIGURE 2
TOPOGRAPHIC MAP





paterson group
consulting engineers
154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Scale:	1:10000
Des.:	XR
Dwn:	MPG
Chkd:	MSD

TAGGART GROUP OF COMPANIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
405-425 HUNTMAR DRIVE AND 3001 PALLADIUM DRIVE
OTTAWA, ONTARIO

SURROUNDING LAND USE PLAN

Dwg. No.	PE3146-2
Report No.:	PE3146-1
Date:	12/2013

APPENDIX 1

CHAIN OF TITLE

CURRENT PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

December 6, 2013

Patersongroup
Attn: Xavier Redhead

BRIEF DESCRIPTION OF LAND:

3001 Palladium Drive
Part of Lot 3, Concession 1 Huntley
PIN: 04508-0095

LAST REGISTERED OWNER: WEST OTTAWA LAND HOLDINGS INC.

CHAIN OF TITLE:

South ½ Lot 3, Concession 1, Huntley

Patent dated June 6, 1828
To George Burroughs

Will HU1546 registered April 16, 1879
From To George Burroughs to Wife Ann, et al.

Deed HU5104 registered January 9, 1901
From Benjamin N. Burroughs to Armer Gracey

Deed HU6194 registered March 19, 1908
From Armer Gracey to James Boyd

Deed HU7131 registered June 11, 1915
From James Boyd to William J. D. Boyd

Deed HU8529 registered April 3, 1926
From William J. D. Boyd to James Bradley

Deed HU8946 registered September 8, 1930
From James Bradley to Silas C. Bradley

Deed HU10140 registered May 25, 1945
From Silas C. Bradley to John Sample

Deed HU12870 registered November 6, 1968
From Estate of John Sample to Lawrence H. Sample

Deed N659031 registered May 14, 1993
From Lawrence Howard Sample to Terrace Corporation

North ½ Lot 3, Concession 1, Huntley

Patent dated April 16, 1836
To Nathaniel Osborne

Deed HU2223 registered April 9, 1868
From James Korrow to William black

Deed HU4879 registered March 30, 1900
From Robert L. Black (Estate of William Black) to Frederick S. Richardson

Deed HU6025 registered March 16, 1907
From Frederick S. Richardson to Thomas J. Black

Deed HU7852 registered August 19, 1920
From Thomas J. Black to Leslie H. Black

Deed N540740 registered June 29, 1990
From Chritiana Hope Black and Eunice Joy Grant (Estate of Leslie H. Black) to 867723 Ontario Inc.

Deed N689214 registered April 6, 1994
From 867723 Ontario Inc. To Terrace Coporation

Common (PIN 04508-0095)

Mortgage N698192 registered July 7, 1994
From Terrace Corporation to I. F. Propco Holdings (Ontario) 19 Ltd.

Power of Sale OC701209 registered March 28, 2007, under Mortgage N698192
From I. F. Propco Holdings (Ontario) 19 Ltd. to West Ottawa Land Holdings Inc.

Lease OC933655 registered December 2, 2008
From West Ottawa Land Holdings Inc. To Maple Ridge Farms



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

December 4, 2013

Patersongroup

Attn: Sean Moggridge

BRIEF DESCRIPTION OF LAND:

370 Huntmar Drive

Part of Lots 3 and 4, Concession 1 March

PIN: 04510-0344

LAST REGISTERED OWNER: MINTO COMMUNITIES INC.

CHAIN OF TITLE:

Lot 3

Patent dated January 5, 1864

To William McCurdy

Deed MH877 registered August 8, 1888

From William McCurdy to Alex McCurdy

Deed MH2760 registered November 22, 1820

From Estate of Alex McCurdy to Henry O. McCurdy

Deed MH4519 registered February 25, 1960

From Henry O. McCurdy to Arthur Fentiman and Mary L. Fentiman

Deed CT115431 registered January 14, 1970

From Arthur Fentiman and Mary L. Fentiman to Rock Pile Investments Co. Limited

Deed N281992 registered April 2, 1985

From Rock Pile Investments Co. Limited to 595572 Ontario Ltd.

Deed N491885 registered June 22, 1989

From 595572 Ontario Ltd. To Leah Fentiman

Deed N518263 registered December 29, 1989
From Leah Fentiman to 867723 Ontario Inc.

Deed N689214 registered April 6, 1994
From 867723 Ontario Inc. To Terrace Corporation

Power of Sale OC342521 registered June 15, 2004
To West Kanata Development Corporation

Deed OC1059407 registered December 8, 2009
From West Kanata Development Corporation to Minto Communities Inc.

Lot 4

Patent dated October 12, 1841
To Canada Company

Deed MH904 registered February 26, 1889
From William Robertson to James Robertson

Deed MH1780 registered June 15, 1905
From James Robertson to Adam H. Acres

Deed MH2555 registered May 7, 1917
From Adam H. Acres to William A. S. McCurdy

Deed MH5656 registered November 5, 1965
From Estate of William A. S. McCurdy to Clarence McCurdy and Calvin C. R. McCurdy

Deed CT236258 registered September 8, 1976
From Clarence McCurdy and Calvin C. R. McCurdy to Doris M. McCurdy

Deed CT256342 registered October 3, 1977
From Doris M. McCurdy to Claudio Gnani and Dorothy Gnani

Deed NS228729 registered February 9, 1984
From Doris McCurdy to Clarence and Calvin McCurdy

Deed NS260642 registered October 5, 1984
From Claudio Gnani and Dorothy Gnani to Bruce O'Callaghan

Deed N353470 registered September 2, 1986

From Doris McCurdy to Wayne and Jane Patterson

Deed N418768 registered December 1, 1987
From Clarence and Calvin McCurdy to Khalil Swaita

Deed N516978 registered December 15, 1989
From Khalil Swaita to Terrace Investments Ltd.

Deed LT1320584 registered September 15, 2000
From Bruce O'Callaghan to Anton and Darlene Plangger

Deed OC3530 registered September 28, 2001
From Anton and Darlene Plangger To Thang Quach

Deed OC165652 registered January 31, 2003
From Thang Quach to Daniel Plourde

Deed OC342562 registered June 15, 2004
From Daniel Plourde to Jane Patterson

Deed OC342597 registered June 15, 2004
From Jane Patterson to George Nichols

Power of Sale OC342521 registered June 15, 2004
To West Kanata Development Corporation

Deed OC577558 registered March 31, 2006
From Estate of George Nichols to West Kanata Development Corporation

Deed OC1059407 registered December 8, 2009
From West Kanata Development Corporation to Minto Communities Inc.



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

December 9, 2013

Patersongroup
Attn: Xavier Redhead

BRIEF DESCRIPTION OF LAND:

405 Huntmar Drive
Part of Lot 4, Concession 1 Huntley
PIN: 04508-0026

LAST REGISTERED OWNER: WEST OTTAWA LAND HOLDINGS (2) INC.

CHAIN OF TITLE:

Patent dated October 26, 1846
To Canada Company

Deed HU455 registered March 4, 1873
From John Wilson to John Wilson

Deed HU9015 registered July 27, 1931
From Estate of John Wilson to Sheriff Wilson

Deed HU12314 registered April 4, 1966
From Sheriff Wilson to Weldon J. Wilson

Deed HU12498 registered May 8, 1967
From Sheriff Wilson to Weldon J. Wilson

Deed CT184066 registered November 23, 1973
From Weldon J. Wilson to Beverly J. Wilson

Deed N487790 registered May 25, 1989
From Beverly J. Wilson to Weldon John Wilson

Mortgage N544614 registered August 1, 1990
From Weldon John Wilson to Betty Polowin, Dave Polowin, Dave Polowin Real Estate Ltd., Gerry Polowin, Central Guaranty Trust Co., 115967 Canada Inc.

Power of Sale N648160 registered January 18, 1993
From Weldon John Wilson to Betty Polowin, Dave Polowin, Dave Polowin Real Estate Ltd., Gerry Polowin, Central Guaranty Trust Co., 115967 Canada Inc.

Deed N650695 registered February 12, 1993
From Betty Polowin, Dave Polowin, Dave Polowin Real Estate Ltd., Gerry Polowin, Central Guaranty Trust Co., 115967 Canada Inc. To Betty Polowin, Dave Polowin, Dave Polowin Real Estate Ltd., Gerry Polowin, Central Guaranty Trust Co., 115967 Canada Inc.

Deed N652556 registered March 4, 1993
From 115967 Canada Inc. To Advanced Technology & Innovations MS Inc., 115967 Canada Inc.

Deed N672387 registered September 22, 1993
From Central Guaranty Trust Co. To 115967 Canada Inc.

Deed LT1313199 registered August 24, 2000
From Dave Polowin, Betty Polowin, Dave Polowin Real Estate Inc. To Stephen Polowin

Deed OC338153 registered June 3, 2004
From Advanced Technology & Innovations MS Inc. To ATR Advanced Technical Resources Inc.

Deed OC353280 registered July 9, 2004
From 115967 Canada Inc., ATR Advanced Technical Resources Inc., Gerry Polowin, Stephen Polowin, to 2049824 Ontario Inc.

Deed OC1413630 registered September 27, 2012
From 2049824 Ontario Inc. To West Ottawa Land Holdings (2) Inc.



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

December 12, 2013

Patersongroup
Attn: Xavier Redhead

BRIEF DESCRIPTION OF LAND:

425 Huntmar Drive
Part of Lot 4, Concession 1 Huntley
PIN: 04508-0025

LAST REGISTERED OWNER: WEST OTTAWA LAND HOLDINGS (2) INC.

CHAIN OF TITLE:

Patent dated October 26, 1846
To Canada Company

Deed HU455 registered March 4, 1873
From John Wilson to John Wilson

Deed HU9015 registered July 27, 1931
From Estate of John Wilson to Sheriff Wilson

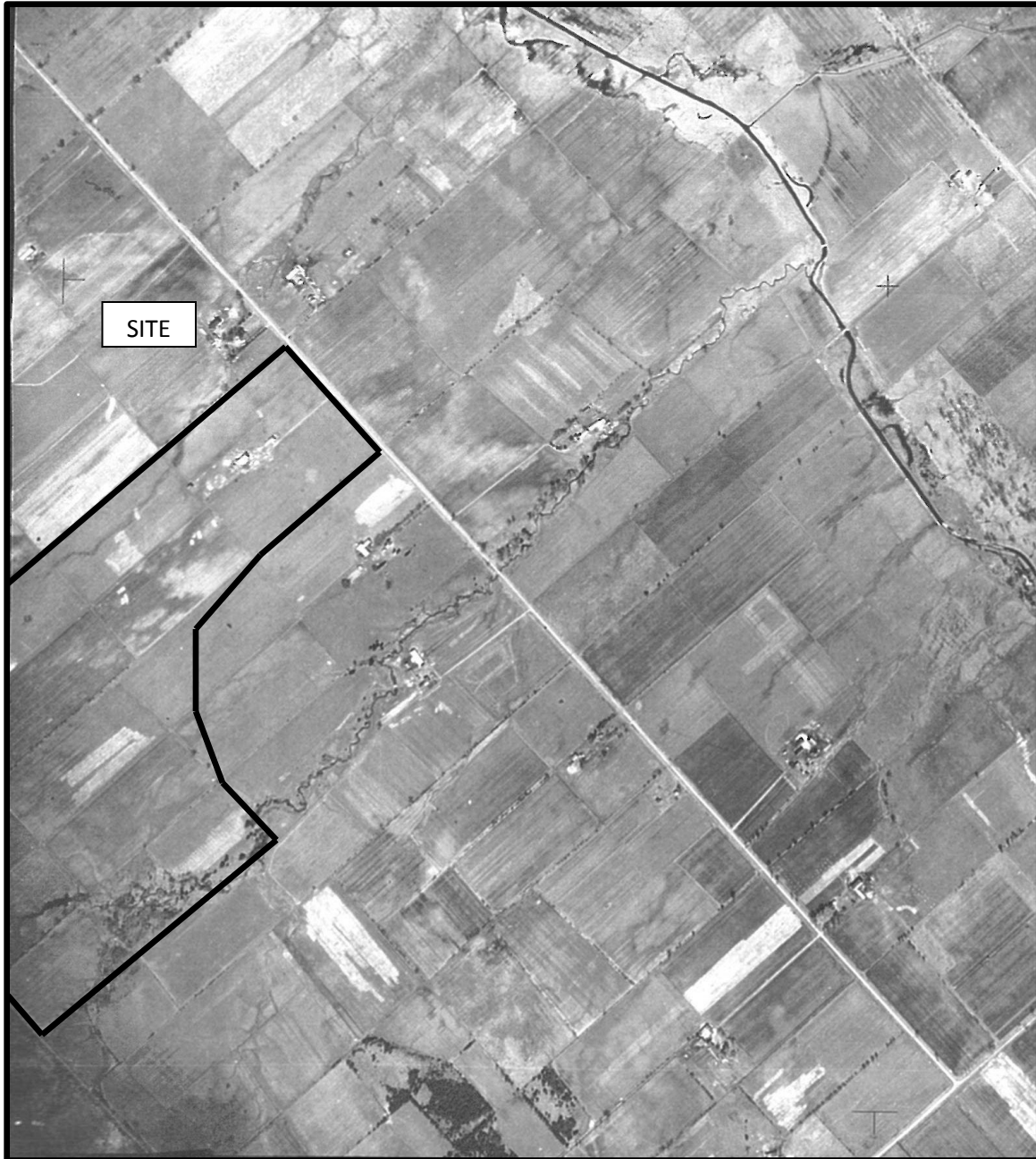
Deed N464661 registered November 10, 1988
From Sheriff Wilson to 795101 Ontario Limited

Mortgage N552953 registered October 12, 1990
From 795101 Ontario Limited to Maynard Denison

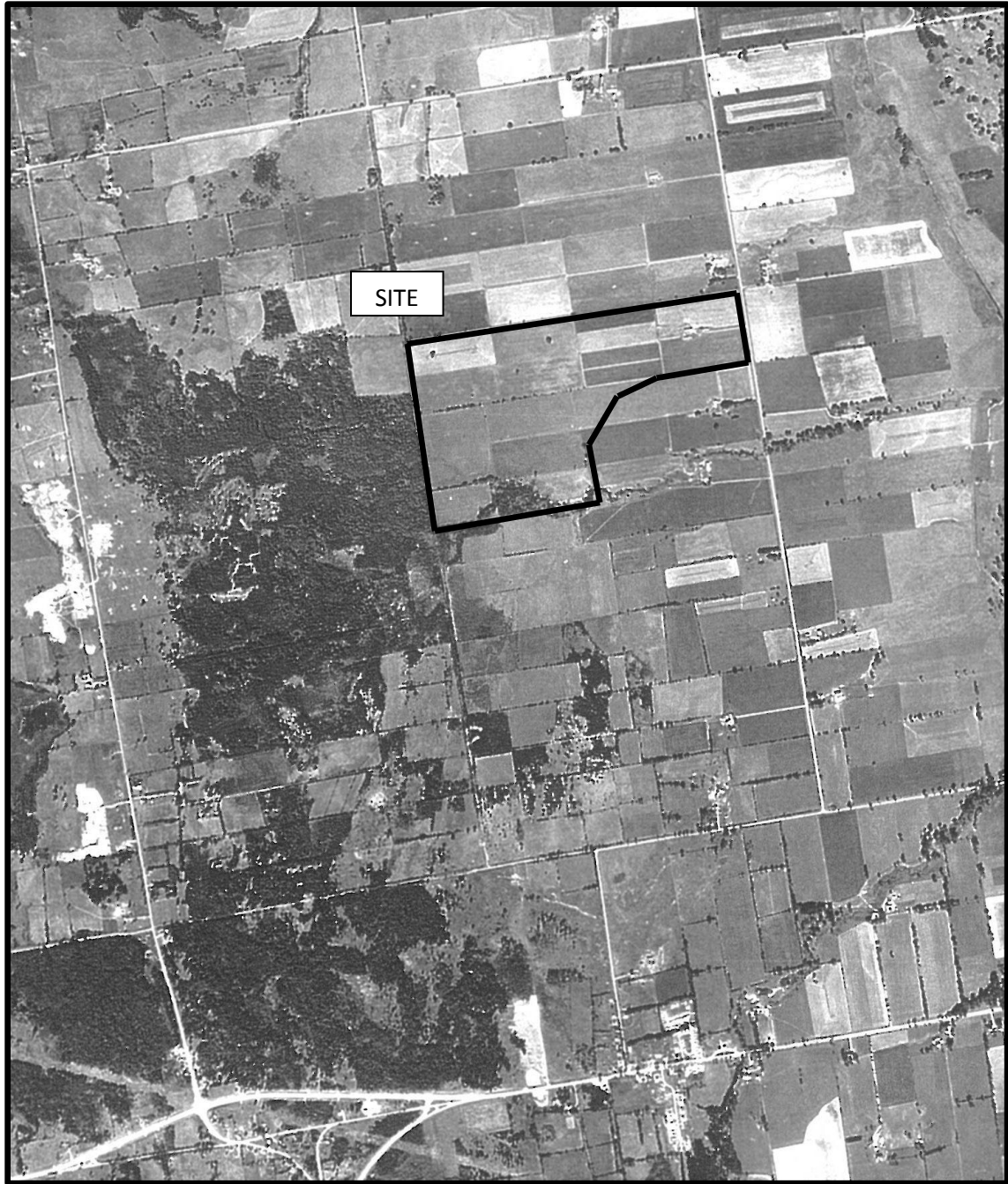
Power of Sale N681798 registered December 29, 1993
From 795101 Ontario Limited to Maynard Denison

Transmission Application OC1338290 registered March 1, 2012
From Maynard Denison to Margaret Beverley Denison

Transfer By Personal Rep. OC1338374 registered March 1, 2012
From Margaret Beverley Denison to West Ottawa Land Holdings Inc.



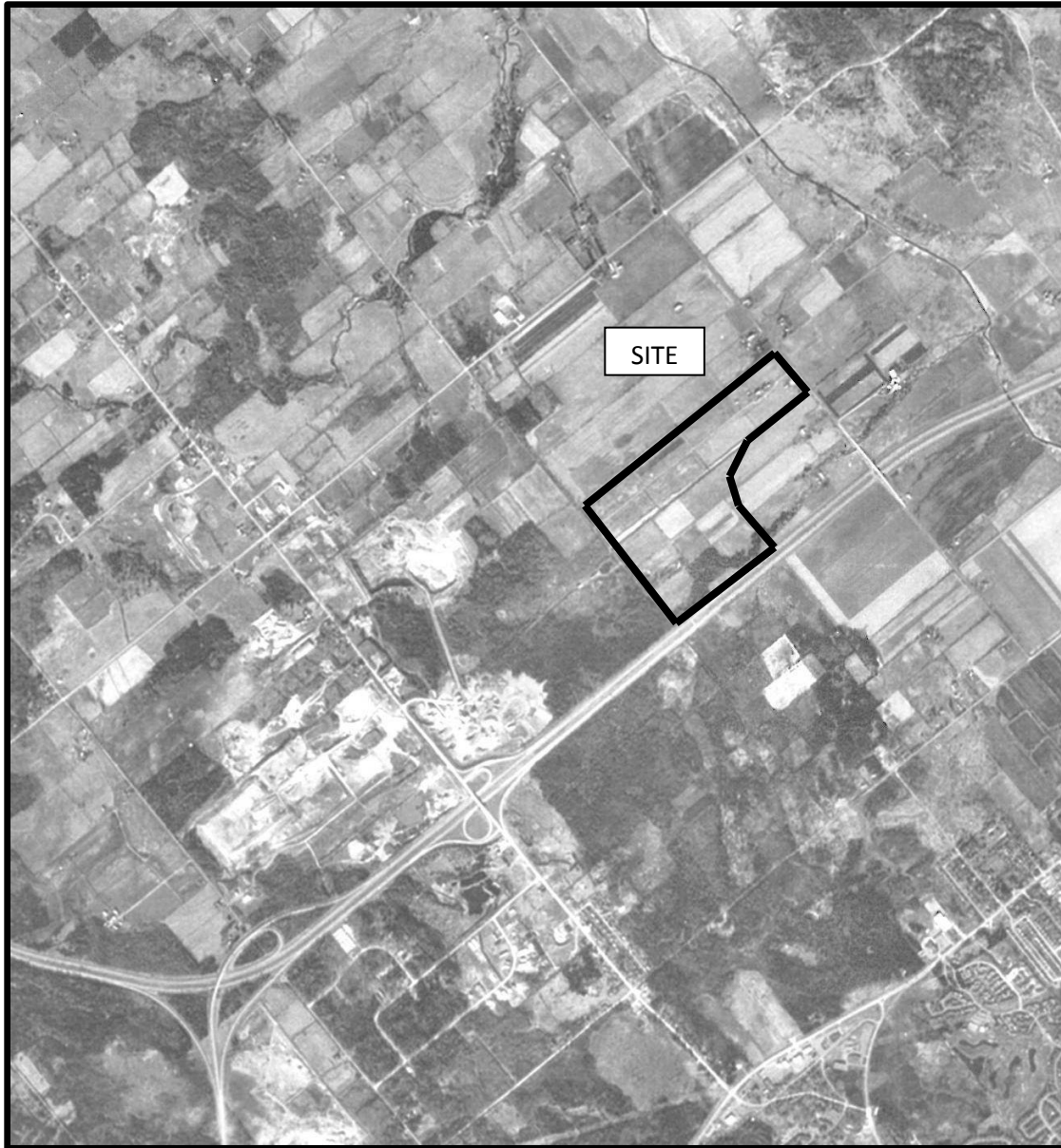
AERIAL PHOTOGRAPH
1947



AERIAL PHOTOGRAPH
1959



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1988



AERIAL PHOTOGRAPH
2002

Site Photographs

PE3146

405-425 Huntmar Drive and 3001 Palladium Drive

January 8, 2014



Photograph 1: View of concrete and brick debris from the demolished farmstead.



Photograph 2: View of a northern portion of property and adjacent agricultural land, facing north from the gravel road.

Site Photographs

PE3146

405-425 Huntmar Drive and 3001 Palladium Drive

January 8, 2014



Photograph 3: View of the aboveground storage tank located in the central portion of the property, facing southwest.



Photograph 4: View of the sewage holding tank on the eastern portion of the property.

Site Photographs

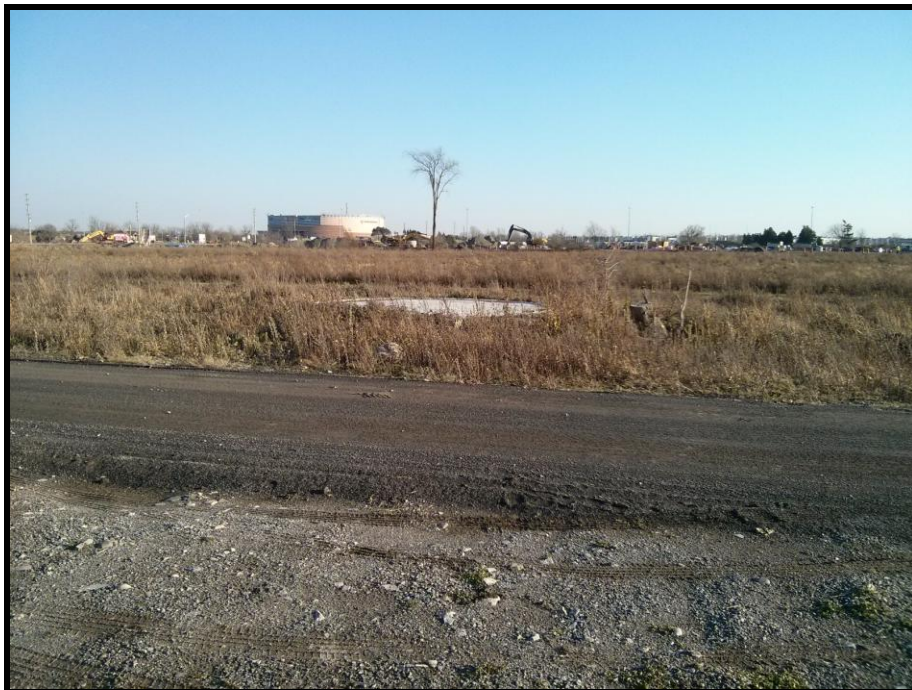
PE3146

405-425 Huntmar Drive and 3001 Palladium Drive

January 8, 2014



Photograph 5: View of a southern portion of the property, facing south from the gravel road.



Photograph 6: View of the vacant southeastern portion of the property and circular concrete pad for the demolished farmstead silo, facing southeast from the gravel road.

APPENDIX 2

MOE FREEDOM OF INFORMATION REQUEST RESPONSE

TSSA CORRESPONDENCE

MOE WELL RECORDS RESPONSE

CITY OF OTTAWA HLUI SEARCH RESULTS

Ministry of
the Environment

Freedom of Information and
Protection of Privacy Office

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

Ministère de
l'Environnement

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

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



December 4, 2013

Xavier Redhead
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5

Dear Xavier Redhead:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2013-06227, Your Reference #: PE3146

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3001 Palladium Drive, 405 & 425 Huntmar Drive, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information.

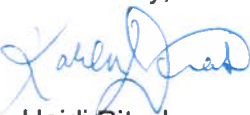
In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$ 30.00
• Copying 8 pages @ \$0.20/page	\$ 1.60
• Delivery	3.00
• Total	\$ 34.60
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 4.60

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

If you have any questions regarding this matter, please contact Karen Dias at (416) 314-6129.

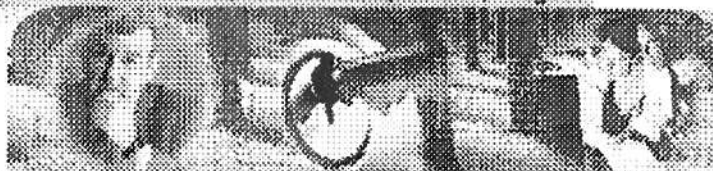
Yours truly,


Heidi Ritscher
FOI Manager

Attachments


 Ministry of the
Environment
[central site](#) | [feedback](#) | [search](#) | [site map](#) | [français](#)
[HOME](#) | [AIR](#) | [WATER](#) | [LAND](#) | [ABOUT US](#) | [NEWS & PUBLICATIONS](#)
[User Management](#) * | [Company Mgmt](#) | [Manifests](#) | [Site Data](#) | [HELP](#) | [Logout](#)
hwin

Administration



Generator Details

Registration/Notification Number

ON9067188

Legal Company Name

Primary Name:	2049824 ONTARIO INC.	Division Name:	NA
---------------	----------------------	----------------	----

Company Operating Name

Primary Name:	2049824 ONTARIO INC.	Division Name:	NA
---------------	----------------------	----------------	----

Mailing Address

Division Building:	NA	Post Box Number:	NA
Address Line 1:	900 CLYDE AVENUE	Address Line 2:	NA
Town/City:	OTTAWA	Postal Code / Zip Code:	K1Z 5A5
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	NA	Post Box Number:	NA
Address Line 1:	405 HUNTMAR ROAD		
Address Line 2:	NA		
Town/City:	OTTAWA	Postal Code / Zip Code:	K2S 1B9
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		



Ministry of the
Environment

[central site](#) | [Feedback](#) | [search](#) | [site map](#) | [français](#)

[HOME](#) | [AIR](#) | [WATER](#) | [LAND](#) | [ABOUT US](#) | [NEWS & PUBLICATIONS](#)

[User Management](#) | [Company Mgmt](#) | [Manifests](#) | [Site Data](#) | [HELP](#) | [Logout](#)

hwin
Administration



Search

Go

Company Name: 2049824 ONTARIO INC.
Company Number: ON9067188 (Generator)

Active Waste Classes

Active Waste Class Listing

[Add New Waste Class](#) | [Inactive waste classes](#)

Active On-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status
221 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
251 - L	View Details	N/A					Liquid	Off-Site	Active
252 - L	View Details	N/A					Liquid	Off-Site	Active

[Back](#)

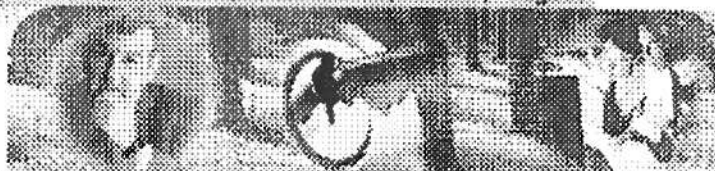


This site maintained by
the Government of Ontario

Technical inquiries to [Webmaster](#).
© 2002 [Queen's Printer for Ontario](#)

Ministry of the
Environment[central site](#) | [Feedback](#) | [search](#) | [site map](#) | [français](#)[HOME](#) | [AIR](#) | [WATER](#) | [LAND](#) | [ABOUT US](#) | [NEWS & PUBLICATIONS](#)[User Management](#) | [Company Mgmt](#) | [Manifests](#) | [Site Data](#) | [HELP](#) | [Logout](#)**hwin**

Administration



Search

Go

Company Name: 2049824 ONTARIO INC.

Company Number: ON9067188 (Generator)

Inactive Waste Classes

Inactive Waste Class Listing

[Add New Waste Class](#) | [Active waste classes](#)

Inactive Off-site Waste Classes

Waste Class	Physical State	Off-Site	Status	Activate
221 - L	Liquid	Off-Site	Inactive	View Details

This site maintained by
the Government of OntarioTechnical inquiries to [Webmaster](#).
© 2002 [Queen's Printer for Ontario](#)



Ontario

Ministry
of the
Environment Ministère
de
l'Environnement

CERTIFICATE OF APPROVAL
INDUSTRIAL SEWAGE WORKS
NUMBER 6750-6DLH9U

2049824 Ontario Inc.
240-55 Metcalfe Street
Ottawa, Ontario
K1A 1M5

Site Location: 405 Huntmar Drive
Ottawa City

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of stormwater management Works for the collection, transmission, treatment and disposal of stormwater run-off from a catchment area of approximately 4.36 hectares, to provide normal water quality protection and to attenuate post-development peak flows to pre-development levels, discharging to Feedmill Creek, for all storm events up to and including the 100-year return storm, consisting of the following:

Stormwater Management System

- two (2) sedimentation ponds, one being approximately 100 metres by 10 metres and the second being approximately 50 metres by 10 metres with the volumetric volumes being approximately 111 cubic metres and 84 cubic metres respectively; the outlets of the ponds being controlled with a rock channel with 1:1 side slopes (vertical to horizontal) discharging into Feedmill Creek;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works* :

all in accordance with the Application for Approval of Industrial Sewage Works submitted by Frank Donato, President of 2049824 Ontario Inc. received April 19, 2005 and all supporting information.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;

"*Director* " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"*District Manager* " means the District Manager of the Ottawa District Office of the *Ministry* ;

"*Ministry* " means the Ontario Ministry of the Environment;

"*Owner* " means 2049824 Ontario Inc. and includes its successors and assignees;

"*Works* " means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate* .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate* .

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director* , in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. OPERATION AND MAINTENANCE

(1) The *Owner* shall ensure that the design minimum liquid retention volumes for the two ponds are maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a log-book to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the log-book at the corporate office for inspection by the *Ministry* . The log-book shall include the following:

(a) the name of the *Works* ;

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed; and

(c) the date of each spill within the catchment area, including follow-up actions / remedial measures undertaken.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate* .

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved *Works* and to ensure that subsequent Owners of the *Works* are made aware of the certificate and continue to operate the *Works* in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works*.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter O.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter O.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary *
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

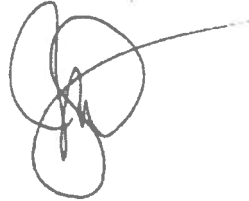
The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the

Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 7th day of July, 2005



Mohamed Dhalla, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

KD/

c: District Manager, MOE Ottawa.
Todd Perry, McIntosh Perry Consulting Engineers Ltd.

Xavier Redhead

From: squibell@tssa.org on behalf of Public Information Services
[publicinformationsservices@tssa.org]
Sent: October-21-13 3:45 PM
To: Xavier Redhead
Subject: Re: 425 Huntmar Drive

Hi Xavier,

Thank you for your inquiry.

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

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationsservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY
"Putting Public Safety First"
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

www.tssa.org

Toll-Free: 1-877-682-8772

On Mon, Oct 21, 2013 at 3:42 PM, Xavier Redhead <XRedhead@patersongroup.ca> wrote:

Good afternoon,

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

333, 370, 405, 421, 425, 451, 453, 467 Huntmar Drive

3001 Palladium Drive

2448 Carp Road

Thank you,

Xavier Redhead, B.Eng.

patersongroup

solution oriented engineering

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Tel: [\(613\) 226-7381 Ext. 232](tel:(613)226-7381)

Fax: [\(613\) 226-6344](tel:(613)226-6344)

Email: xredhead@patersongroup.ca

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

Ministry of the Environment

Wells Help Desk
Environmental Monitoring and
Reporting Branch

125 Resources Road
Toronto ON M9P 3V6
(Toll Free) 1-888-396-9355 (follow
prompts 1, 3)
Fax: 416-235-5960
WellsHelpdesk@Ontario.ca

Ministère de l'Environnement

Service d'information sur les puits
Direction de la surveillance
environnementale

125 Resources Road
Toronto (Ontario) M9P 3V6
Téléphone : 1 888 396-9355 – Faites
ensuite le 2 et le 3 (sans frais en Ontario)
Télécopieur : 416 235-5960
WellsHelpdesk@Ontario.ca

**Individual Well Record Search Request – Form A****Reference Number 1314-2380As**

October 24, 2013

Paterson Group Inc.
154 Colonnade Road South
Ottawa, ON K2E 7J5
Attn: Xavier Redhead

Fax: : 613-226-6344
Email Address: xredhead@patersongroup.ca
File No. PE3146

1 Well Record located matching the search criteria provided	☐
More than 1 Well Record located matching the search criteria provided	☒
No Well Record found matching the search criteria provided	☐

Comments: records within 750m of 426187, 5016276

Number of Well Records matching the search criteria	11
County:	-
Township:	-
Conc.:	-
Lot:	-
Longitude & Latitude	&

If you have any questions or concerns please contact the Wells Help Desk***** SEARCH REQUEST FORMS AVAILABLE AT www.forms.ssb.gov.on.ca *****

Please note: The Ministry cannot and does not represent or guarantee that the Well Records information is current, accurate or complete. The Ministry assumes no responsibility for errors or omissions in the Well Records information and is not liable in any way for damages of any kind arising out of or related to the Well Records information or for delay or failure to provide the Well Records information. Any reliance upon the Well Records information provided is solely at the risk of the requester. Water Well Information provided is subject to the Freedom of Information and Protection of Privacy Act (FIPPA), Ontario.

CS2.48



316501

GROUND WATER BRANCH
 No. 3284
 SEP 5 1962
 ONTARIO WATER RESOURCES COMMISSION

3284
 X

UTM 18 12 14216181701E

5 R 510116155.01N

Elev. 14 R 1031215

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 25 County or District 1 CARLETON

Township, Village, Town or City. MARCH

Con. I Lot 3

Date completed 23 AUG 62 (day month year)

Address 5 TITTSVILLE

Casing and Screen Record

Pumping Test

Inside diameter of casing 4"
 Total length of casing 72'
 Type of screen -
 Length of screen -
 Depth to top of screen -
 Diameter of finished hole 4"

Static level 12
 Test-pumping rate 5 G.P.M.
 Pumping level 15
 Duration of test pumping 1 1/2 HRS
 Water clear or cloudy at end of test CLEAR
 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)
BLUE CLAY	0	60		
HAMPAN	60	70		
COARSE GRAVEL	70	72	72	FRESH

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

FARM

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

Drilling or Boring Firm

F. P. SPARKS

Address

3 TITTSVILLE

Licence Number

616

Name of Driller or Borer

S. ANNE

Address

Date

AUG 24/62

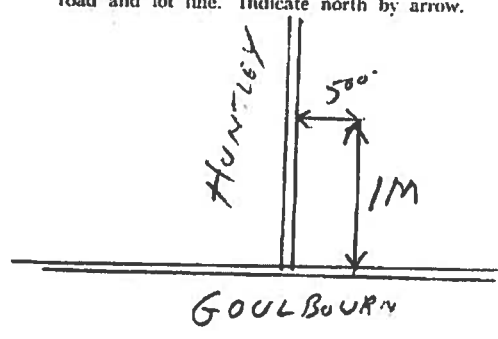
(Signature of Licensed Drilling or Boring Contractor)
 F. P. Sparks

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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

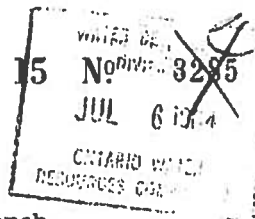


30
 3
 1
 C.S.S. 58

5
UTM 182 426 810 02



31654



5 1501165110N

The Ontario Water Resources Commission Act

Elev. 41 10325

WATER WELL RECORD

Basin 251
County or District Carleton

Township, Village, Town or City March

Con. 1 Lot. 3

Date completed 23 May 64
(day month year)

Address Hazeldean, Ontario.

Casing and Screen Record

Inside diameter of casing 1 1/2" - 2" & 3"
Total length of casing 3", 0'-52'; 2", 52'-77'; 1 1/2", 77'-85'
Type of screen -
Length of screen -
Depth to top of screen -
Diameter of finished hole 2"

Pumping Test

Static level 5'
Test-pumping rate 10 G.P.M.
Pumping level 20'
Duration of test pumping 1 hour
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0	30	136	sulphur
Quick sand	30	52		
Boulders & sand	52	70		
Limestone	70	136		

Water Record

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

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

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

1014 Maitland Ave.,

Address OTTAWA 5, Ont.

Licence Number 1307

Name of Driller or Borer F. Cossette

Address 1510 Baseline Rd., Ottawa, Ont.

Date 26 May, 1964

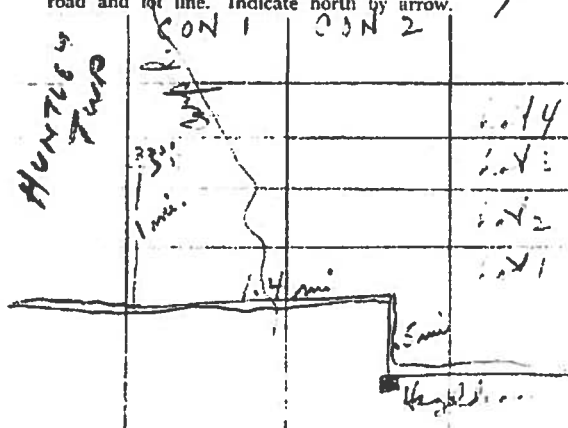
(Signature of Licensee Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



C55.58

Ministry
of the
Environment

The Ontario Water Resources Act

WATER WELL RECORD

1 PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1519823

115025

ICP

10.1

2 CHECK ☒ CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT: Carleton

TOWNSHIP BOROUGH CITY TOWNSHIP: west Carleton

CON. BLOCK FRAC. SL. ST. E. C. 10 14 18 22 26 30 34 38 42 46 50 54 58 62 66 70 74 78 82 86 90 94 98 102 106 110 114 118 122 126 130 134 138 142 146 150 154 158 162 166 170 174 178 182 186 190 194 198 202 206 210 214 218 222 226 230 234 238 242 246 250 254 258 262 266 270 274 278 282 286 290 294 298 302 306 310 314 318 322 326 330 334 338 342 346 350 354 358 362 366 370 374 378 382 386 390 394 398 402 406 410 414 418 422 426 430 434 438 442 446 450 454 458 462 466 470 474 478 482 486 490 494 498 502 506 510 514 518 522 526 530 534 538 542 546 550 554 558 562 566 570 574 578 582 586 590 594 598 602 606 610 614 618 622 626 630 634 638 642 646 650 654 658 662 666 670 674 678 682 686 690 694 698 702 706 710 714 718 722 726 730 734 738 742 746 750 754 758 762 766 770 774 778 782 786 790 794 798 802 806 810 814 818 822 826 830 834 838 842 846 850 854 858 862 866 870 874 878 882 886 890 894 898 902 906 910 914 918 922 926 930 934 938 942 946 950 954 958 962 966 970 974 978 982 986 990 994 998 1002 1006 1010 1014 1018 1022 1026 1030 1034 1038 1042 1046 1050 1054 1058 1062 1066 1070 1074 1078 1082 1086 1090 1094 1098 1102 1106 1110 1114 1118 1122 1126 1130 1134 1138 1142 1146 1150 1154 1158 1162 1166 1170 1174 1178 1182 1186 1190 1194 1198 1202 1206 1210 1214 1218 1222 1226 1230 1234 1238 1242 1246 1250 1254 1258 1262 1266 1270 1274 1278 1282 1286 1290 1294 1298 1302 1306 1310 1314 1318 1322 1326 1330 1334 1338 1342 1346 1350 1354 1358 1362 1366 1370 1374 1378 1382 1386 1390 1394 1398 1402 1406 1410 1414 1418 1422 1426 1430 1434 1438 1442 1446 1450 1454 1458 1462 1466 1470 1474 1478 1482 1486 1490 1494 1498 1502 1506 1510 1514 1518 1522 1526 1530 1534 1538 1542 1546 1550 1554 1558 1562 1566 1570 1574 1578 1582 1586 1590 1594 1598 1602 1606 1610 1614 1618 1622 1626 1630 1634 1638 1642 1646 1650 1654 1658 1662 1666 1670 1674 1678 1682 1686 1690 1694 1698 1702 1706 1710 1714 1718 1722 1726 1730 1734 1738 1742 1746 1750 1754 1758 1762 1766 1770 1774 1778 1782 1786 1790 1794 1798 1802 1806 1810 1814 1818 1822 1826 1830 1834 1838 1842 1846 1850 1854 1858 1862 1866 1870 1874 1878 1882 1886 1890 1894 1898 1902 1906 1910 1914 1918 1922 1926 1930 1934 1938 1942 1946 1950 1954 1958 1962 1966 1970 1974 1978 1982 1986 1990 1994 1998 2002 2006 2010 2014 2018 2022 2026 2030 2034 2038 2042 2046 2050 2054 2058 2062 2066 2070 2074 2078 2082 2086 2090 2094 2098 2102 2106 2110 2114 2118 2122 2126 2130 2134 2138 2142 2146 2150 2154 2158 2162 2166 2170 2174 2178 2182 2186 2190 2194 2198 2202 2206 2210 2214 2218 2222 2226 2230 2234 2238 2242 2246 2250 2254 2258 2262 2266 2270 2274 2278 2282 2286 2290 2294 2298 2302 2306 2310 2314 2318 2322 2326 2330 2334 2338 2342 2346 2350 2354 2358 2362 2366 2370 2374 2378 2382 2386 2390 2394 2398 2402 2406 2410 2414 2418 2422 2426 2430 2434 2438 2442 2446 2450 2454 2458 2462 2466 2470 2474 2478 2482 2486 2490 2494 2498 2502 2506 2510 2514 2518 2522 2526 2530 2534 2538 2542 2546 2550 2554 2558 2562 2566 2570 2574 2578 2582 2586 2590 2594 2598 2602 2606 2610 2614 2618 2622 2626 2630 2634 2638 2642 2646 2650 2654 2658 2662 2666 2670 2674 2678 2682 2686 2690 2694 2698 2702 2706 2710 2714 2718 2722 2726 2730 2734 2738 2742 2746 2750 2754 2758 2762 2766 2770 2774 2778 2782 2786 2790 2794 2798 2802 2806 2810 2814 2818 2822 2826 2830 2834 2838 2842 2846 2850 2854 2858 2862 2866 2870 2874 2878 2882 2886 2890 2894 2898 2902 2906 2910 2914 2918 2922 2926 2930 2934 2938 2942 2946 2950 2954 2958 2962 2966 2970 2974 2978 2982 2986 2990 2994 2998 3002 3006 3010 3014 3018 3022 3026 3030 3034 3038 3042 3046 3050 3054 3058 3062 3066 3070 3074 3078 3082 3086 3090 3094 3098 3102 3106 3110 3114 3118 3122 3126 3130 3134 3138 3142 3146 3150 3154 3158 3162 3166 3170 3174 3178 3182 3186 3190 3194 3198 3202 3206 3210 3214 3218 3222 3226 3230 3234 3238 3242 3246 3250 3254 3258 3262 3266 3270 3274 3278 3282 3286 3290 3294 3298 3302 3306 3310 3314 3318 3322 3326 3330 3334 3338 3342 3346 3350 3354 3358 3362 3366 3370 3374 3378 3382 3386 3390 3394 3398 3402 3406 3410 3414 3418 3422 3426 3430 3434 3438 3442 3

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

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	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
63	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
102	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

51 CASING & OPEN HOLE RECORD			
INSIDE DIA INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FEET
6 1/4	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0 22
6 1/2	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE		22 105

51 PLUGGING & SEALING RECORD	
DEPTH SET AT FEET	MATERIAL AND TYPE
10 12	
10 20	
10 25	

PUMPING TEST	PUMPING TEST METHOD		ID	PUMPING RATE		1 TO	DURATION OF PUMPING		TO
	☒ PUMP	☐ BALLP		50		GPM	1 TO	2	HOURS
	STATIC LEVEL		WATER LEVEL END OF PUMPING	WATER LEVELS DURING		☒ PUMPING ☐ RECOVERY			
	10-01	10-00	10 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	75 MINUTES	90 MINUTES	
	FEET	50	FEET	13	FEET	27	FEET	39	FEET
IF FLOODING GIVE DATE		30-01	PUMP INCREASE SET AT		WATER AT END OF TEST				
		GPM	60		FEET	1 ☒ CLEAR		2 ☐ CLOUDY	
RECOMMENDED PUMP TYPE			RECOMMENDED PUMP SETTING		45-05	RECOMMENDED PUMPING RATE		65-00	
☐ SHALLOW ☒ DEEP			60		FELL	50		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
	8 ☐ OTHER _____	
WATER USE	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☒ INDUSTRIAL 5 ☐ OTHER _____	6 ☐ COMMERCIAL 7 ☐ MUNICIPAL 8 ☐ PUBLIC SUPPLY 9 ☐ COOLING OR AIR CONDITIONING 0 ☐ NOT USED
	10 ☐ OTHER _____	
METHOD OF DRILLING	1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION	6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING
	10 ☐ OTHER _____	

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	Giffin Well Drilling LTD.	2307
	ADDRESS	
	R.R.#2 Renfrew Ont.	
	NAME OF DRILLER OR BOREH	LICENCE NUMBER
	P.G. Giffin LUTRONKI	2307
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	<i>[Signature]</i>	DAY 1 NO. 5 TR 8

LOCATION OF WELL

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

DIFFERENT concrete SPOT AT TO OTTAWA

CARP CONCRETE

400'

OVERPASS

CARP RD.

1 km

N

TO ARVIRIC

HY 417

DRILLER'S REMARKS

OFFICE USE ONLY	DATA SUBJEE	CONTRACTOR	DATE RECEIVED
	DATE OF INSPECTION	INSPECTOR	25 07 85
	REMARKS		
	WDE		CS.S. 

FORM NO. 0505-4-77 FORM 7

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

11

1529619

Municipality Con. 15005 COM 02

County or District Ottawa Carleton	Township/Borough/City/Town/Village West Carleton - Huntley	Con block tract survey, etc. 2	Lot 2
Owner's surname Turpin Group Inc.	First name c/h Golders Ass. Ltd.	Address 1796 Courtwood Cres.	
Date completed 25 day 9 month 97 year		Zone Easting Northing Ottawa, Ontario R2C 2B5	

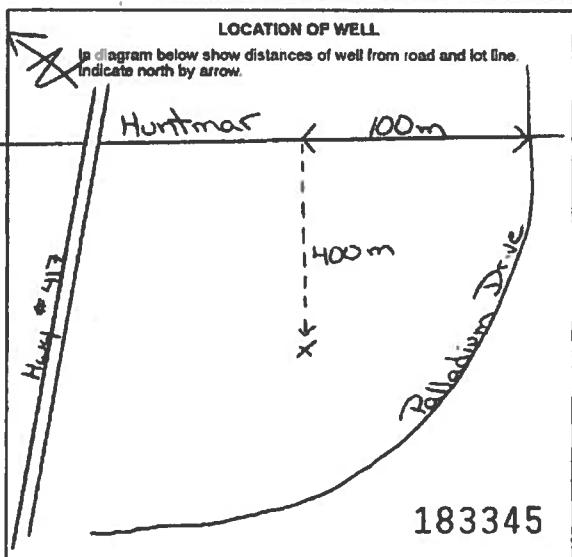
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Clay		Packed	0	10
Gray	Clay		Sticky	10	38
Gray	Sandy Clay		Dry	38	41.6
Gray	Limestone		Medium Hard	41.6	150
Gray	Limestone		Medium Hard	150	200
NOTE: No Water, Well was stopped at owners request					

31	32
----	----

41 WATER RECORD Water found at - feet Kind of water 10-13 ☐ Fresh ☐ Sulphur ☐ Minerals ☐ Gas 15-18 ☐ Fresh ☐ Sulphur ☐ Minerals ☐ Gas 20-25 ☐ Fresh ☐ Sulphur ☐ Minerals ☐ Gas 21-29 ☐ Fresh ☐ Sulphur ☐ Minerals ☐ Gas 30-33 ☐ Fresh ☐ Sulphur ☐ Minerals ☐ Gas	51 CASING & OPEN HOLE RECORD <table border="1"> <tr> <th>Inside diam. inches</th> <th>Material</th> <th>Wall thickness inches</th> <th>Depth - feet</th> </tr> <tr> <td>6 1/4</td> <td>Steel</td> <td>.188</td> <td>0</td> </tr> <tr> <td>5 15</td> <td>Galvanized</td> <td></td> <td>44.5</td> </tr> <tr> <td>36</td> <td>Concrete</td> <td></td> <td>200</td> </tr> </table>	Inside diam. inches	Material	Wall thickness inches	Depth - feet	6 1/4	Steel	.188	0	5 15	Galvanized		44.5	36	Concrete		200	61 PLUGGING & SEALING RECORD Annular space ☐ Abandonment Depth at top of seal - feet From To 43 0 Grouted Cement (8)
Inside diam. inches	Material	Wall thickness inches	Depth - feet															
6 1/4	Steel	.188	0															
5 15	Galvanized		44.5															
36	Concrete		200															

71 PUMPING TEST Pumping test method ☐ Pump ☐ Bailor Static level Water level end of pumping 16-31 22-31 feet feet If flowing give rate GPM Recommended pump type ☐ Shallow ☐ Deep Recommended pump setting feet Recommended pump rate GPM	Pumping rate GPM Duration of pumping hours Water levels during ☐ Pumping ☐ Recovery 15 minutes 30 minutes 45 minutes 60 minutes feet feet feet feet feet feet Water at end of test ☐ Clear ☐ Cloudy Recommended pump rate GPM
---	---

FINAL STATUS OF WELL ☐ Water supply ☐ Abandoned, insufficient supply ☐ Unfinished ☐ Observation well ☐ Abandoned, poor quality ☐ Replacement well ☐ Test hole ☐ Abandoned (Other) ☐ Recharge well ☐ Dewatering	WATER USE ☐ Domestic ☐ Commercial ☐ Not used ☐ Stock ☐ Municipal ☐ Other ☐ Irrigation ☐ Public supply ☐ Industrial ☐ Cooling & air conditioning
METHOD OF CONSTRUCTION ☐ Cable tool ☐ Air percussion ☐ Driving ☐ Rotary (conventional) ☐ Boring ☐ Digging ☐ Rotary (reverse) ☐ Diamond ☐ Other ☐ Rotary (air) ☐ Jetting	



Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Address P.O. Box 490 Stittsville, Ontario K2S 1A6	Well Contractor's Licence No. 10097
Signature of Technician/Contractor <i>S. Miller</i>	Submission date day 29 mo 9 yr 97

Data source 1558 Date of inspection CL 17 1997	Contractor 1558 Date received CL 17 1997
Remarks <i>[Signature]</i>	



The Ontario Water Resources Act
WATER WELL RECORD

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

1529723

Municipality 15005 Con CON 1

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Ottawa Carleton	West Carleton - Huntley	2	2
Owner's surname	Address	Date completed	
Palladium Auto Park	c/o Golders Ave. 1796 Courtwood Cres.	28 day 11 month 92	

[illegible]

WATER RECORD									
Water found at - foot		Kind of water							
10-12	1	☐ Fresh	☐ Sulphur	10					
	2	☐ Salty	☐ Minerals Gas						
15-18	1	☐ Fresh	☐ Sulphur	15					
	2	☐ Salty	☐ Minerals Gas						
20-23	1	☐ Fresh	☐ Sulphur	20					
	2	☐ Salty	☐ Minerals Gas						
25-28	1	☐ Fresh	☐ Sulphur	25					
	2	☐ Salty	☐ Minerals Gas						
30-31	1	☐ Fresh	☐ Sulphur	30					
	2	☐ Salty	☐ Minerals Gas						

CASING & OPEN HOLE RECORD							
5.1 Inside diam inches		Material		Well thickness inches		Depth - feet	
						From	To
10 11	☐ 1	Steel	12				12 16
	☐ 2	Galvanized					
	☐ 3	Concrete					
	☐ 4	Open hole					
	☐ 5	Plastic					
11 18	☐ 1	Steel	19				20 76
	☐ 2	Galvanized					
	☐ 3	Concrete					
	☐ 4	Open hole					
	☐ 5	Plastic					
24 25	☐ 1	Steel	26				27 36
	☐ 2	Galvanized					
	☐ 3	Concrete					
	☐ 4	Open hole					
	☐ 5	Plastic					

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

61		PLUGGING & SEALING RECORD			
☐ Annular space		☒ Abandonment			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)			
From	To				
10-13	16-17				
200	0	Cement Grout & Hole Plug			
10-21	20-25				
26-28	24-25				

PUMPING TEST	Pumping test method ☐ Pump ☐ Baler		Pumping rate GPM		Duration of pumping Hours Mins		
	Static level		Water level during		☐ Pumping ☐ Recovery		
	Water level and of pumping		15 minutes 30 minutes 45 minutes 60 minutes				
	feet		feet feet feet feet		feet feet		
	Flowing give rate		Pump intake set at		Water at end of test ☐ Clear ☐ Cloudy		
	Recommended pump type ☐ Shallow ☐ Deep		Recommended pump setting		Recommended pump rate		
				feet		GPM	

FINAL STATUS OF WELL

☐ Water supply ☒ Abandoned, insufficient supply ☐ Unfinished
☐ Observation well ☒ Abandoned, poor quality ☐ Replacement well
☐ Test hole ☐ Abandoned (Other)
☐ Recharge well ☐ Dewatering

WATER USE		
☐ Domestic	☐ Commercial	☐ Not used
☐ Stock	☐ Municipal	☐ Other
☐ Irrigation	☐ Public supply	
☐ Industrial	☐ 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	

LOCATION OF WELL

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

182754

Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville, Ontario K8S 1A6	
Name of Well Technician	Well Technician's Licence No.
W. Kavanagh/S. Miller	TO095/TO097
Signature of Technician/Correspondent	Submission date
<i>W. Kavanagh</i>	day 28 mo 11 y 97

MINISTRY USE ONLY	Date source	1558	Date received	DEC 22 1997
	Date of inspection	Inspector	Remarks	

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

1530934

Municipality USAOS Cor. CON 101

County or District Ontario - Carleton	Township/Borough/City/Town/Village West Carleton - Huntley	Con block 1	tract survey, etc. 4
Address 2415 Carp Road Stittsville, Ontario		Date completed 9 day 10 month 89 year	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible]

41	WATER RECORD		51	CASING & OPEN HOLE RECORD		61	SCREEN		71	PLUGGING & SEALING RECORD	
Water found at - feet	Kind of water		Inside diam inches	Material	Wall thickness inches	Depth - feet From To	SCREEN	Size of opening (Slot No.)	Diameter inches	Length feet	
								Material and type		Depth at top of screen feet	
245	☒ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas	NOT TESTED	6 1/8	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	.188	0 21					
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas		5 15	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		21 275					
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas		5 16	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic							
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals ☐ Gas										
	☐ Fresh ☐ Salty ☐ Sulphur Minerals 										

PUMPING TEST	71	Pumping test method ☒ Pump ☐ Bailer	Pumping rate 1 GPM	Duration of pumping 2 Hours
	Static level	Water level during	☒ Pumping ☐ Recovery	
	End of pumping	15 minutes 30 minutes 45 minutes 60 minutes		
	6 feet 200 feet	200 feet 200 feet	200 feet 200 feet	
	If flowing give rate	Pump intake set at	test ☐ Clear ☒ Cloudy	
	GPM	Recommended pump setting	Recommended pump rate	
	☐ Shallow ☒ Deep	225 feet	2 GPM	

FINAL STATUS OF WELL		75-1a	
1 ☐ Water supply	3 ☐ Abandoned, insufficient supply	7 ☐ Unfinished	
2 ☐ Observation well	4 ☐ Abandoned, poor quality	8 ☐ Replacement well	
3 ☐ Test hole	5 ☐ Abandoned (Other)		
4 ☐ Recharge well	6 ☐ Dewatering		

WATER USE		75-1b	
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not use	
2 ☐ Stock	6 ☐ Municipal	10 ☐ Other	
3 ☐ Irrigation	7 ☐ Public supply		
4 ☐ Industrial	8 ☐ Cooling & air conditioning		

METHOD OF CONSTRUCTION		17	
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	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Atitaville, Ontario K2S 1A6	
Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097
Signature of Technician/Contractor	Submission date
<i>S. Miller</i>	day 14 mo 10 yr 99

LOCATION OF WELL

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

Richardson Side Rd

Camp Rd

36'

17'

208496

MINISTRY USE ONLY	Date Source	Contractor 1558	Date received DEC 07 1999
	Date of inspection	Inspector	
	Fluoridation		
	CSS.ES0		



The Ontario Water Resources Act WATER WELL RECORD

11

1533405

Municipality **15005** Con. **CON** **QU**

County or District Ottawa Carleton	Township/Borough/City/Town/Village West Carleton - Huntley	Con block tract survey, etc. 1	Lol 3
Address 8633 Purdy Rd R.R. #3 Richmond, Ontario		Date completed 5 day 11 month 02 year	

21

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible][illegible][illegible]

PUMPING TEST	71	Pumping test method ☐ Pump ☐ Sailer	10	Pumping rate	11-14 GPM	Duration of pumping 15-19 HOURS	17-19 MINS
	Static level	Water level end of pumping	25	Water levels during	☐ Pumping ☐ Recovery		
	15-21 feet	21-24 feet	15 minutes 35-21	30 minutes 39-21	45 minutes 32-34	60 minutes 35-37	
	If blowing give rate	38-41 GPM	Pump intake set at	feet	Water at end of test		
				☐ Clear ☐ Cloudy			
	Recommended pump type ☐ Shallow ☐ Deep	Recommended pump setting	feet	Recommended pump rate			GPM

FINAL STATUS OF WELL		54
1 ☐ Water supply	6 ☐ Abandoned, insufficient supply	9 ☐ Unfinished
2 ☐ Observation well	7 ☐ Abandoned, poor quality	10 ☐ Replacement well
3 ☐ Test hole	7 ☒ Abandoned (Other)	
4 ☐ Recharge well	8 ☐ Dewatering	

WATER USE		55-58
1 ☐ Domestic	6 ☐ Commercial	9 ☐ Not use
2 ☐ Stock	7 ☐ Municipal	10 ☐ Other
3 ☐ Irrigation	7 ☐ Public supply	
4 ☐ Industrial	8 ☐ Cooling & air conditioning	

METHOD OF CONSTRUCTION		57
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	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097
Signature of Technician/Contractor	Submission date
	day 21 mo 11 yr 02

LOCATION OF WELL

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

12'

8'

Purdy Road

250501

MINISTRY USE ONLY	Date source	56 Contractor	56-67 Date received	67-68
		1558	DEC 17 2002	
	Date of inspection	Inspector		
	Remarks			
	CSG.E22			



The Ontario Water Resources Act WATER WELL RECORD

11

1533406

Municipality 15005 Con. CON

County or District Ottawa-Carleton		Township/Borough/City/Town/Village West Carleton - Huntley				Con block tract survey, etc. 1		Lot 3		R 27	
		Address 8633 Purdy Road R.R. #3 Richmond, Ontario				Date completed 1 day 11 months 92 year		00 01			
		Northing HC Elevation R.O.									
21											

[illegible][illegible][illegible]

PUMPING TEST	71	Pumping test method 24 ☒ 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 ☐ ⁸¹ ☐ ⁸² ☐ ⁸³ ☐ ⁸⁴ ☐ ⁸⁵ ☐ ⁸⁶ ☐ ⁸⁷ ☐ ⁸⁸ ☐ ⁸⁹ ☐ ⁹⁰ ☐ ⁹¹ ☐ ⁹² ☐ ⁹³ ☐ ⁹⁴ ☐ ⁹⁵ ☐ ⁹⁶ ☐ ⁹⁷ ☐ ⁹⁸ ☐ ⁹⁹ ☐ ¹⁰⁰ ☐ ¹⁰¹ ☐ ¹⁰² ☐ ¹⁰³ ☐ ¹⁰⁴ ☐ ¹⁰⁵ ☐ ¹⁰⁶ ☐ ¹⁰⁷ ☐ ¹⁰⁸ ☐ ¹⁰⁹ ☐ ¹¹⁰ ☐ ¹¹¹ ☐ ¹¹² ☐ ¹¹³ ☐ ¹¹⁴ ☐ ¹¹⁵ ☐ ¹¹⁶ ☐ ¹¹⁷ ☐ ¹¹⁸ ☐ ¹¹⁹ ☐ ¹²⁰ ☐ ¹²¹ ☐ ¹²² ☐ ¹²³ ☐ ¹²⁴ ☐ ¹²⁵ ☐ ¹²⁶ ☐ ¹²⁷ ☐ ¹²⁸ ☐ ¹²⁹ ☐ ¹³⁰ ☐ ¹³¹ ☐ ¹³² ☐ ¹³³ ☐ ¹³⁴ ☐ ¹³⁵ ☐ ¹³⁶ ☐ ¹³⁷ ☐ ¹³⁸ ☐ ¹³⁹ ☐ ¹⁴⁰ ☐ ¹⁴¹ ☐ ¹⁴² ☐ ¹⁴³ ☐ ¹⁴⁴ ☐ ¹⁴⁵ ☐ ¹⁴⁶ ☐ ¹⁴⁷ ☐ ¹⁴⁸ ☐ ¹⁴⁹ ☐ ¹⁵⁰ ☐ ¹⁵¹ ☐ ¹⁵² ☐ ¹⁵³ ☐ ¹⁵⁴ ☐ ¹⁵⁵ ☐ ¹⁵⁶ ☐ ¹⁵⁷ ☐ ¹⁵⁸ ☐ ¹⁵⁹ ☐ ¹⁶⁰ ☐ ¹⁶¹ ☐ ¹⁶² ☐ ¹⁶³ ☐ ¹⁶⁴ ☐ ¹⁶⁵ ☐ ¹⁶⁶ ☐ ¹⁶⁷ ☐ ¹⁶⁸ ☐ ¹⁶⁹ ☐ ¹⁷⁰ ☐ ¹⁷¹ ☐ ¹⁷² ☐ ¹⁷³ ☐ ¹⁷⁴ ☐ ¹⁷⁵ ☐ ¹⁷⁶ ☐ ¹⁷⁷ ☐ ¹⁷⁸ ☐ ¹⁷⁹ ☐ ¹⁸⁰ ☐ ¹⁸¹ ☐ ¹⁸² ☐ ¹⁸³ ☐ ¹⁸⁴ ☐ ¹⁸⁵ ☐ ¹⁸⁶ ☐ ¹⁸⁷ ☐ ¹⁸⁸ ☐ ¹⁸⁹ ☐ ¹⁹⁰ ☐ ¹⁹¹ ☐ ¹⁹² ☐ ¹⁹³ ☐ ¹⁹⁴ ☐ ¹⁹⁵ ☐ ¹⁹⁶ ☐ ¹⁹⁷ ☐ ¹⁹⁸ ☐ ¹⁹⁹ ☐ ²⁰⁰ ☐ ²⁰¹ ☐ ²⁰² ☐ ²⁰³ ☐ ²⁰⁴ ☐ ²⁰⁵ ☐ ²⁰⁶ ☐ ²⁰⁷ ☐ ²⁰⁸ ☐ ²⁰⁹ ☐ ²¹⁰ ☐ ²¹¹ ☐ ²¹² ☐ ²¹³ ☐ ²¹⁴ ☐ ²¹⁵ ☐ ²¹⁶ ☐ ²¹⁷ ☐ ²¹⁸ ☐ ²¹⁹ ☐ ²²⁰ ☐ ²²¹ ☐ ²²² ☐ ²²³ ☐ ²²⁴ ☐ ²²⁵ ☐ ²²⁶ ☐ ²²⁷ ☐ ²²⁸ ☐ ²²⁹ ☐ ²³⁰ ☐ ²³¹ ☐ ²³² ☐ ²³³ ☐ ²³⁴ ☐ ²³⁵ ☐ ²³⁶ ☐ ²³⁷ ☐ ²³⁸ ☐ ²³⁹ ☐ ²⁴⁰ ☐ ²⁴¹ ☐ ²⁴² ☐ ²⁴³ ☐ ²⁴⁴ ☐ ²⁴⁵ ☐ ²⁴⁶ ☐ ²⁴⁷ ☐ ²⁴⁸ ☐ ²⁴⁹ ☐ ²⁵⁰ ☐ ²⁵¹ ☐ ²⁵² ☐ ²⁵³ ☐ ²⁵⁴ ☐ ²⁵⁵ ☐ ²⁵⁶ ☐ ²⁵⁷ ☐ ²⁵⁸ ☐ ²⁵⁹ ☐ ²⁶⁰ ☐ ²⁶¹ ☐ ²⁶² ☐ ²⁶³ ☐ ²⁶⁴ ☐ ²⁶⁵ ☐ ²⁶⁶ ☐ ²⁶⁷ ☐ ²⁶⁸ ☐ ²⁶⁹ ☐ ²⁷⁰ ☐ ²⁷¹ ☐ ²⁷² ☐ ²⁷³ ☐ ²⁷⁴ ☐ ²⁷⁵ ☐ ²⁷⁶ ☐ ²⁷⁷ ☐ ²⁷⁸ ☐ ²⁷⁹ ☐ ²⁸⁰ ☐ ²⁸¹ ☐ ²⁸² ☐ ²⁸³ ☐ ²⁸⁴ ☐ ²⁸⁵
--------------	----	--

FINAL STATUS OF WELL		
☒ 1 Water supply ☒ 2 Observation well ☐ 3 Test hole ☒ 4 Reccharge 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 use ☒ 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	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097
Signature of Technician/Contractor	Submission date
<i>S. Miller</i>	day 5 month 02

LOCATION OF WELL

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

The diagram shows a rectangular lot labeled "#6833" bounded by "Purdy Road" to the north and "Dwyer Hill Road" to the west. A well is located within the lot. A dashed line represents the east lot line. The distance from the well to Purdy Road is marked as 21' 9". The distance from the well to the east lot line is marked as 39'. A north arrow is located in the top left corner of the diagram.

250488

MINISTRY USE ONLY	Date source	1558	Date received	DEC 17 2002
	Date of inspection	Inspector		
	Remarks			
CCS.E32				

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

12

1534471

Municipality 15005 Con CON 101

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
	OTTAWA (HUNTLEY)	1 13	2
Address of Well Location		Date completed	Day month year
145 GOURLAY LANE		2 day	11 month year

[illegible][illegible]

PUMPING TEST	Drilling test method	Pumping rate	Duration of pumping
	☒ Pump ☐ Bailer	100 GPM	9 Hours
	Static level	Water levels during	☒ Pumping ☐ Recovery
	Water level end of pumping	1st interval 25-30 feet 2nd interval 29-31 feet 3rd interval 28-30 feet 4th interval 28-30 feet 5th interval 28-30 feet	45 minutes 12-30 60 minutes 30-37
	+150 feet		
Flowing g.p.s. rate	Pump intake g.p.s. at	Water level at end of test	
	150 GPM	28-30 feet	
Recommended pump type	Recommended pump setting	Recommended pump rate	
☐ Shallow ☒ Deep	100 feet	20 GPM	

FINAL STATUS OF WELL		
1 ☒ Water supply	4 ☒ Abandoned: insufficient supply	6 ☐ Unfinished
2 ☒ Observation well	5 ☒ Abandoned: poor quality	10 ☐ Replacement well
3 ☒ Test hole	7 ☒ Abandoned (Other)	
4 ☒ No longer used	8 ☒ Decommission	

WATER USE		
1 ☒ Domestic	3 ☒ Commercial	5 ☐ Not use
2 ☒ Stock	4 ☒ Municipal	10 ☐ Other
3 ☒ Irrigation	7 ☒ Public supply	
4 ☒ Industrial	8 ☒ Cooling & air conditioning	

METHOD OF CONSTRUCTION		
1 ☒ Casing tool	3 ☒ Jet percussion	5 ☒ Driving
2 ☒ Rotary (conventional)	4 ☒ Boring	10 ☐ Digging
3 ☒ Rotary (reverse)	7 ☒ Diamond	11 ☐ Other
4 ☒ Rotary (air)	8 ☒ Jetting	

Name of Well Contractor PLUMBING VILLAGE	Well Contractor's Licence No 6574
Address PO 329 CARP RD KOA IL0	
Name of Well Technician S. SILVER	Well Technician's Licence No 310
Signature of Technician/Contractor <i>[Signature]</i>	Submission date dec 1 1990

LOCATION OF WELL

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

40 X WELL

175'

261147

MINISTRY USE ONLY	Data acquired	Corrected	6574	Date entered	FEB 06 2004
	Date of inspection		Inspector		
	Remarks				
	CSS. ES4				



File Number: C10-01-13-0301

December 11, 2013

Xavier Redhead
Paterson Group
154 Colonnade Road
Ottawa, ON
K2E 7J5

Sent via email [XRedhead@patersongroup.ca]

Dear Mr. Redhead,

**Re: Information Request
3001 Palladium Drive, 405 & 425 Huntmar Drive, Ottawa, Ontario ("Subject Property")**

Internal Department Circulation

The Planning and Growth Management Department has the following information in response to your request for information regarding the Subject Property:

- The Solid Waste Services Branch notes that the Subject Property is with 5km of two waste management facilities: Tomlinson Transfer Station – 106 Westhunt Road and West Carleton Environmental Centre – 2301 Carp Road.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

- There is one activity associated with the Subject Property: Activity Number 13065.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Infrastructure Services and Community
Sustainability Department
Planning and Growth Management Branch

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services d'infrastructure et Viabilité des
collectivités
Direction de l'approbation des demandes
d'aménagement et d'infrastructure

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Téléc: (613) 560-6006
www.ottawa.ca

- There are seven activities associated with properties located within 50m of the Subject Property: Activity Number 13063, 13065, 14503, 14993, 2007, 13065, and 2421.

Please note that Activity Number 14993 has a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property or on certain properties within 50m of the Subject Property. All database entries with a PIN Certainty of "2" require independent verification as to their precise location.

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above, including the HLUI database's location of the Activity Numbers with a PIN Certainty of "2".

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

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment for additional information.

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

Sincerely,



David Wise, MUP, MCIP, RPP
Program Manager
Development Review (Suburban Services) - West
Planning and Growth Management Department

Attach: 09

cc: File no. C10-01-13-0301



CITY OF OTTAWA
HLUI ID: __6799CB
AREA (Square Metres): 8091.910

Report: RPTC_OT_DEV0122
Run On: 26 Nov 2013 at: 11:32:01

Study Year
2005

PIN
045100003

Multi-NAIC
N

Multiple Activities
N

Activity ID: 2421 Multiple PINS: N
PIN Certainty: 1 Previous Activity ID(s) :
Related PINS: 045100003
Name: CAVANAUGH CONSTRUCTION LIMITED
Address: 410 HUNTMAR ROAD, OTTAWA
Facility Type: Structural and Related Work
Comments 1:
Comments 2:
Generator Number: ON7832841
Storage Tanks:
HL References 1:
HL References 2:
HL References 3: 2003 PID

NAICS SIC
238190 0

Company Name
CAVANAUGH CONSTRUCTION LIMITED

Year of Operation
c. 2003

**CITY OF OTTAWA**

HLUI ID: __670IXH

AREA (Square Metres): 1075828.344

Report: RPTC_OT_DEV0122

Run On: 26 Nov 2013 at: 11:36:05

Study Year
1998PIN
045080032Multi-NAIC
NMultiple Activities
N

Activity ID: 13065 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) : 5941
Related PINS: 045080008
Name: SPRATT SAND & GRAVEL
Address: CARP ROAD, KANATA
Facility Type: Sand and Gravel Pits
Comments 1: UTM = 424850E, 5014700N (1967). Area is 500m x 500m. Products; aggregates for concrete, asphalt road work, masons, precast plants & block plants.
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: 1922-DMD-TM-Ottawa-Sheet#14, 1948-DND-ASE-NTS-31G/5, 1967-EMR-SMB-NTS-31G/5-7th ed., 1985-EMR-SMB-NTS-31G/5-11th ed., M.1970, M.1971, S.1970/71
HL References 2:
HL References 3:

NAICS	SIC
212323	82

Company Name

Spratt Sand & Gravel

Year of Operation

c. 1967-1999



CITY OF OTTAWA
HLUI ID: __679AEC
AREA (Square Metres): 1421147.079

Report: RPTC_OT_DEV0122
Run On: 26 Nov 2013 at: 11:36:35

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	045080008	Y	Y
2005	045080087	Y	Y

Activity ID: 13063 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 045080087

Name: SPRATT AGGREGATES

Address: 2300 CARP ROAD, CARP

Facility Type: Stone Quarries

Comments 1:

Comments 2:

Generator Number: ON0378101

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS SIC

212315 0

Company Name

SPRATT AGGREGATES

SPRATT SAND & GRAVEL

Year of Operation

c. 2003

c. 2001

**CITY OF OTTAWA**

HLUI ID: __679AEC

Report: RPTC_OT_DEV0122

Run On: 26 Nov 2013 at: 11:36:35

AREA (Square Metres): 1421147.079

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	045080008	Y	Y
2005	045080087	Y	Y

Activity ID: 13065 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) : 5941
Related PINS: 045080008
Name: SPRATT SAND & GRAVEL
Address: CARP ROAD, KANATA
Facility Type: Sand and Gravel Pits
Comments 1: UTM = 424850E, 5014700N (1967). Area is 500m x 500m. Products; aggregates for concrete, asphalt road work, masons, precast plants & block plants.
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: 1922-DMD-TM-Ottawa-Sheet#14, 1948-DND-ASE-NTS-31G/5, 1967-EMR-SMB-NTS-31G/5-7th ed., 1985-EMR-SMB-NTS-31G/5-11th ed., M.1970, M.1971, S.1970/71
HL References 2:
HL References 3:

NAICS	SIC
212323	82

Company Name

Spratt Sand & Gravel

Year of Operation

c. 1967-1999

**CITY OF OTTAWA**HLUI ID: 679AEC

AREA (Square Metres): 1421147.079

Report: RPTC_OT_DEV0122

Run On: 26 Nov 2013 at: 11:36:35

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	045080008	Y	Y
2005	045080087	Y	Y

Activity ID: 14503 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) : 5934, 5782, 5803, 5817, 5826, 5835, 5865, 5919, 5940, 5979, 5991, 6085, 6089, 6100, 6120, 6321, 6338, 6340, 6403, 6429, 6437

Related PINS: 045360337

Name: UNNAMED QUARRY

Address: , WEST CARLETON

Facility Type: Stone Quarries

Comments 1: UTM = 424125E, 5012550N (1985). Area is 450m x 500m

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: 1922-DMD-TM-Ottawa Sheet #14; 1948-DND-ASE-NTS-31G/5; 1967-EMR-SMB-NTS-31/5-7th ed.; 1985-EMR-SMB-NTS-31/5-11th ed.; M.1955, M.1963; FIP1901,vol2; FIP1912,vol2; FIP1922,vol2; FIP1948-267-Proposed; FIP1956-267-26700,vol2

HL References 2: 1951-DND-ASE-NTS-31F/8E-3rd ed., 1964-EMR-SMB-NTS-31F/8-5th ed., 1976-EMR-SMB-NTS-31F/8-7th ed., 1989-EMR-CCM-NTS-31F/8-8th ed.

HL References 3: 1949-51-DND-ASE-NTS-31G/6W-2nd ed., 1965-EMR-SMB-NTS-31G/6W-3rd ed., 1975-EMR-SMB-NTS-31G/6-5th ed., 1983-EMR-SMB-NTS-31G/6-6th ed., Rideau Township Archivist

NAICS	SIC
212317	81
212314	81
212315	81
212316	81
212323	82



CITY OF OTTAWA
HLUI ID: __679AEC

Report: RPTC_OT_DEV0122
Run On: 26 Nov 2013 at: 11:36:35

AREA (Square Metres): 1421147.079

Study Year
1998
2005

PIN
045080008
045080087

Multi-NAIC
Y
Y

Multiple Activities
Y
Y

Company Name

Year of Operation

Unnamed Quarry	c. 1989
Unnamed Quarry	c. 1985
Unnamed Quarry	c. 1948
Unnamed Quarry	c. 1975
Unnamed Quarry	c. 1951
Unnamed Quarry	c. 1930
Unnamed Quarry	c. 1979
Unnamed Quarry	c. 1948-1967
Unnamed Quarry	c. 1975-1983
Unnamed Plant	c. 1985
Unnamed Quarry	c. 1967
Unnamed Quarry	c. 1967-1985
Unnamed Quarry	c. 1979
Unnamed Quarry	c. 1922-1985
Unnamed Sand/Gravel Pit	c. 1964



CITY OF OTTAWA
HLUI ID: __679AEC

Report: RPTC_OT_DEV0122
Run On: 26 Nov 2013 at: 11:36:35

AREA (Square Metres): 1421147.079

Study Year
1998
2005

PIN
045080008
045080087

Multi-NAIC
Y
Y

Multiple Activities
Y
Y

Activity ID: 14993

Multiple PINS: Y

PIN Certainty: 2

Previous Activity ID(s) : 5259

Related PINS: 044870284

Name: YOUNG'S PAVING INC.

Address: 2300 CARP ROAD, WEST CARLETON

Facility Type: Other Petroleum and Coal Products Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: SC98

HL References 2:

HL References 3:

NAICS SIC

324121 369

Company Name

Young's Paving Inc.

Year of Operation

c. 1998

**CITY OF OTTAWA**

HLUI ID: __679AEC

AREA (Square Metres): 1421147.079

Report:

RPTC_OT_DEV0122

Run On:

26 Nov 2013 at: 11:36:35

Study Year

1998

2005

PIN

045080008

045080087

Multi-NAIC

Y

Y

Multiple Activities

Y

Y

Activity ID: 2007 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 045080087

Name: CANADA BUILDING MATERIALS - READY MIX CONCRETE

Address: 2300 CARP ROAD, CARP

Facility Type: Ready Mix Concrete Industry

Comments 1: KANATA READY MIX

Comments 2:

Generator Number: ON5889243

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS SIC

327320 0

444110 0

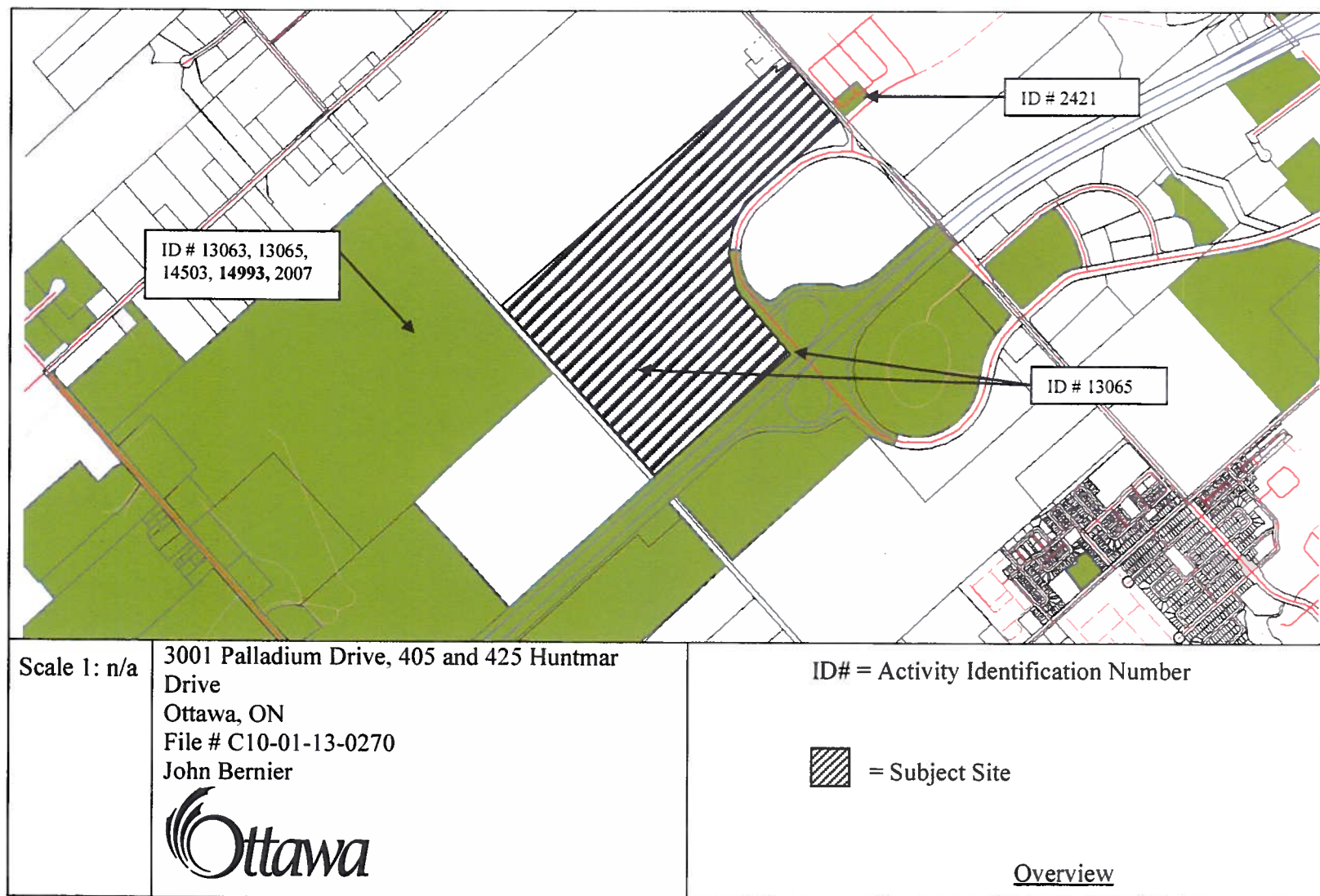
Company Name**Year of Operation**

CANADA BUILDING MATERIALS - READY MIX CONCRETE

c. 2003

CANADA BUILDING MATERIALS - READY MIX CONCRETE

c. 2005



APPENDIX 3

QUALIFICATIONS OF ASSESSORS

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

Environmental Engineering

Geotechnical Engineering

Materials Testing Quality Control

Building Science

Hydrogeology

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