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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

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January 8, 2014

Report: PE3146-1

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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

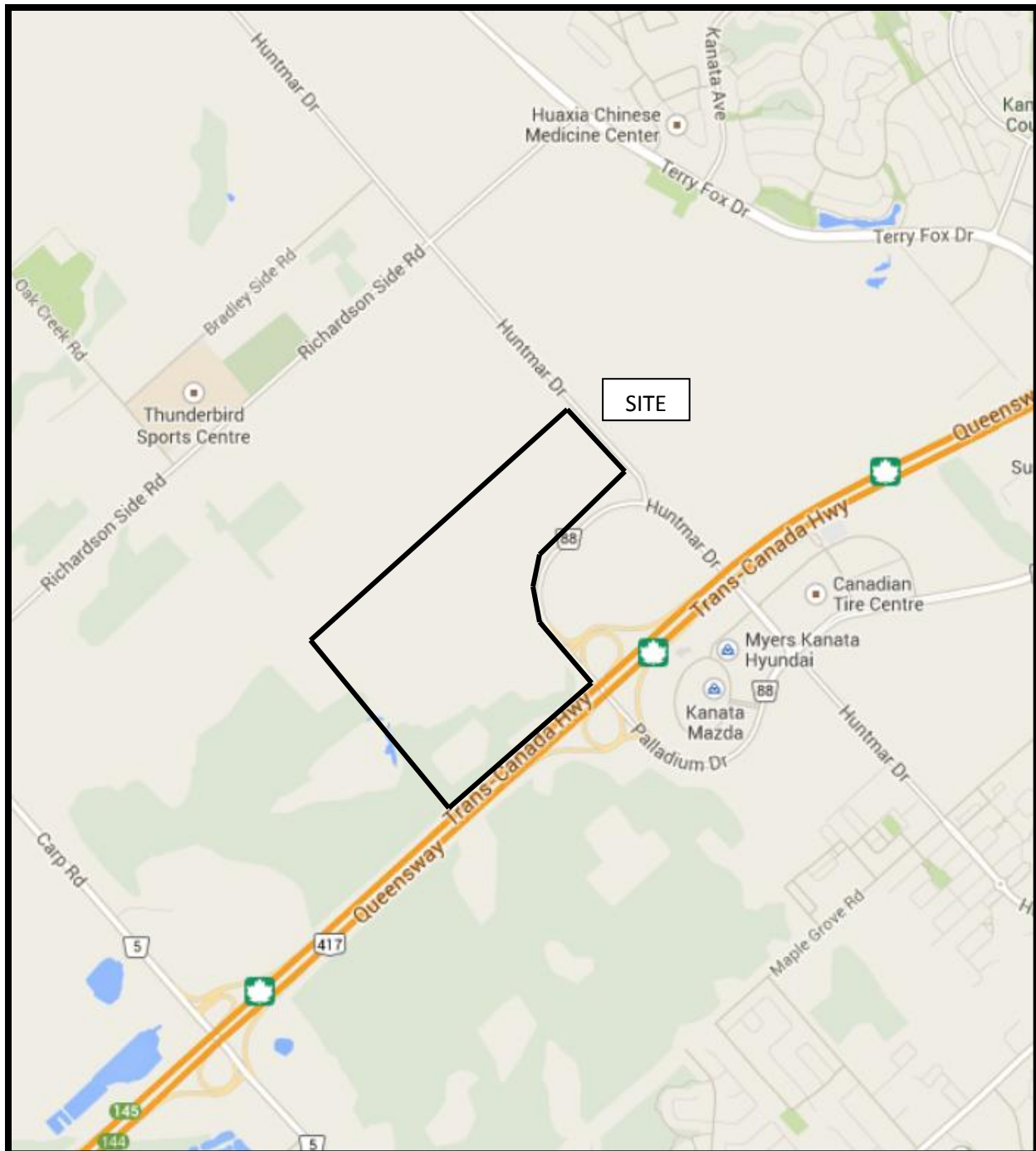


FIGURE 1
KEY PLAN

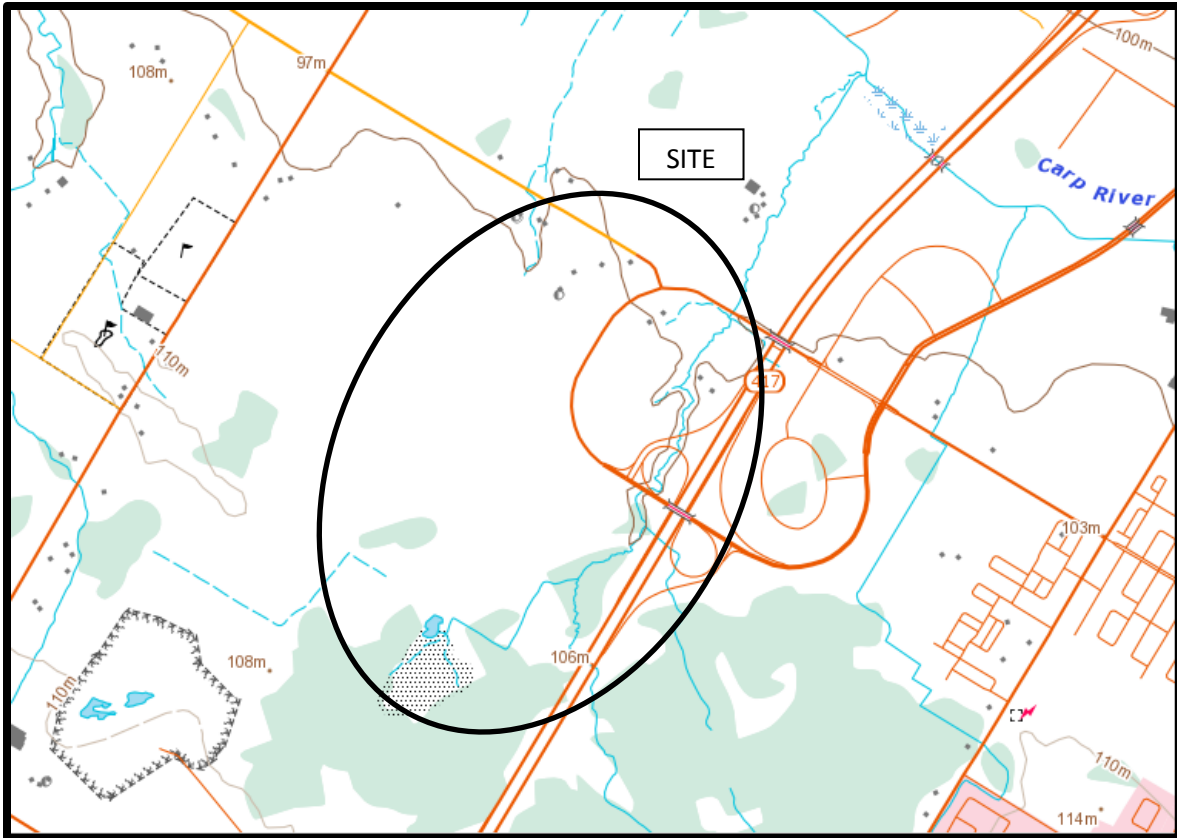
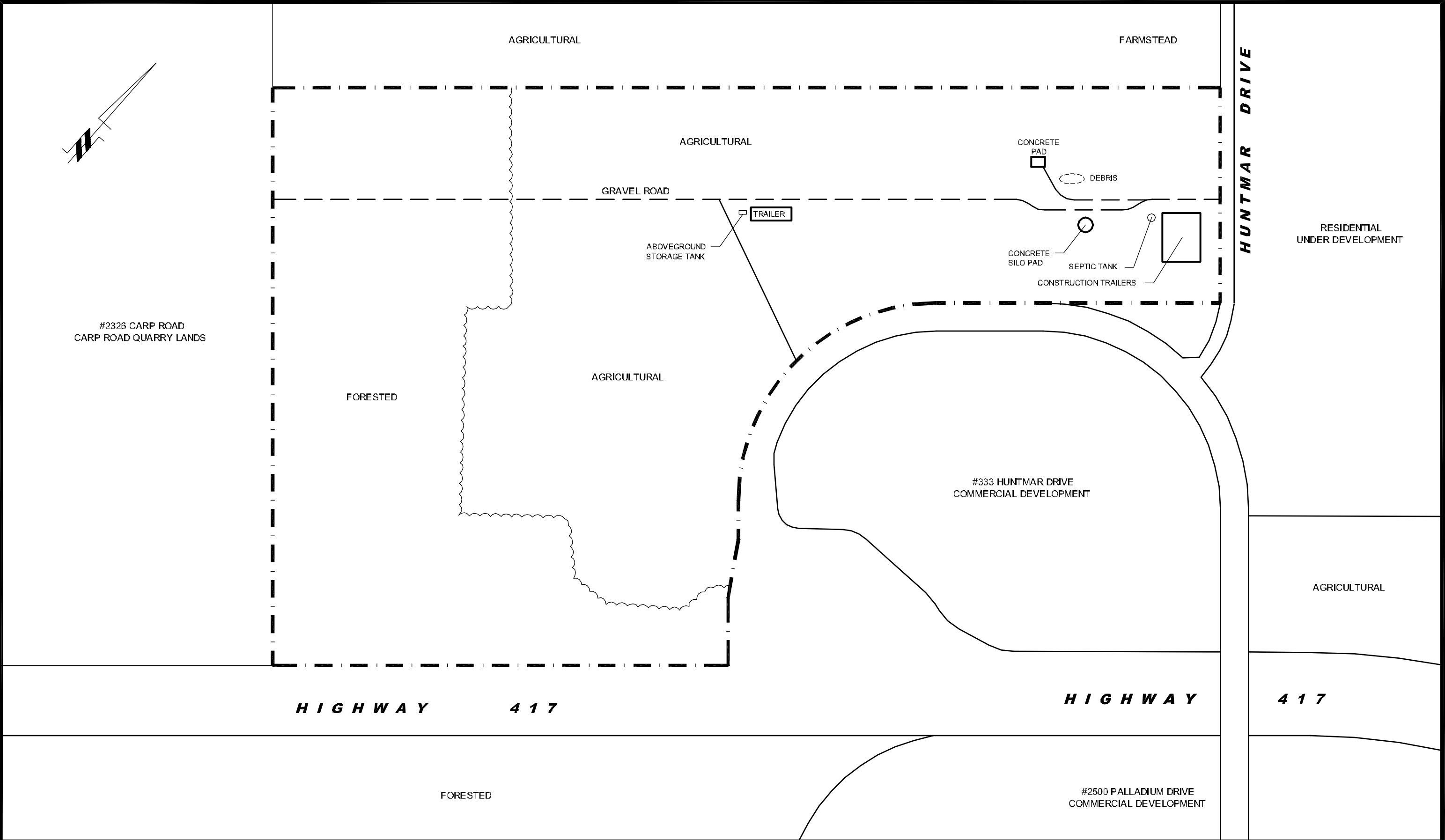


FIGURE 2
TOPOGRAPHIC MAP





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.



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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

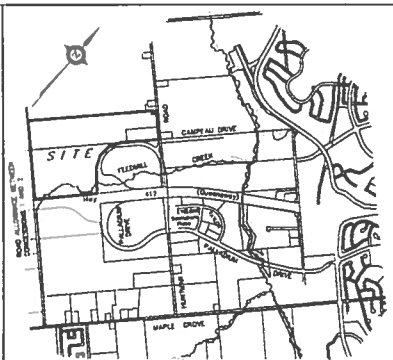
Power of Sale N681798 registered December 29, 1993
From 795101 Ontario Limited to Maynard Denison

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.



SUBJECT TO THE CONDITIONS, IF ANY,
SET FORTH IN OUR LETTER DATED
2013.
THIS DRAFT PLAN IS APPROVED BY THE
CITY OF OTTAWA UNDER SECTION 51 OF
THE PLANNING ACT, THIS DAY OF
2013.
FOR THE CITY OF OTTAWA: PLANNING
MANAGER
FOR THE CITY OF OTTAWA: PLANNING
MANAGER
FOR THE CITY OF OTTAWA: PLANNING
MANAGER



KEY PLAN (not to scale)

DRAFT
PLAN OF SUBDIVISION OF
PART OF LOTS 3 AND 4
CONCESSION 1
Geographic Township of Huntley
CITY OF OTTAWA
STANTEC GEOMATICS LTD.
2013


SCALE 1:2000 METRIC
METRIC
DISTANCES SHOWN ON THIS PLAN ARE IN METERS AND CAN BE CONVERTED TO
FEET BY DIVIDING BY 0.3048
NOTE:
N=0.00 DENOTES HIGH WATER MARK

SURVEYOR'S CERTIFICATE:
I HEREBY CERTIFY THAT THE BOUNDARIES OF THE SUBJECT LANDS AND THEIR
RELATIONSHIP TO ADJOINING LANDS HAVE BEEN ACCURATELY AND CORRECTLY
SHOWN.
DATE: _____
BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

OWNER'S CERTIFICATE:
I HEREBY AUTHORIZE THIS DRAFT PLAN OF SUBDIVISION TO BE SUBMITTED ON
MY BEHALF.
DATE: _____

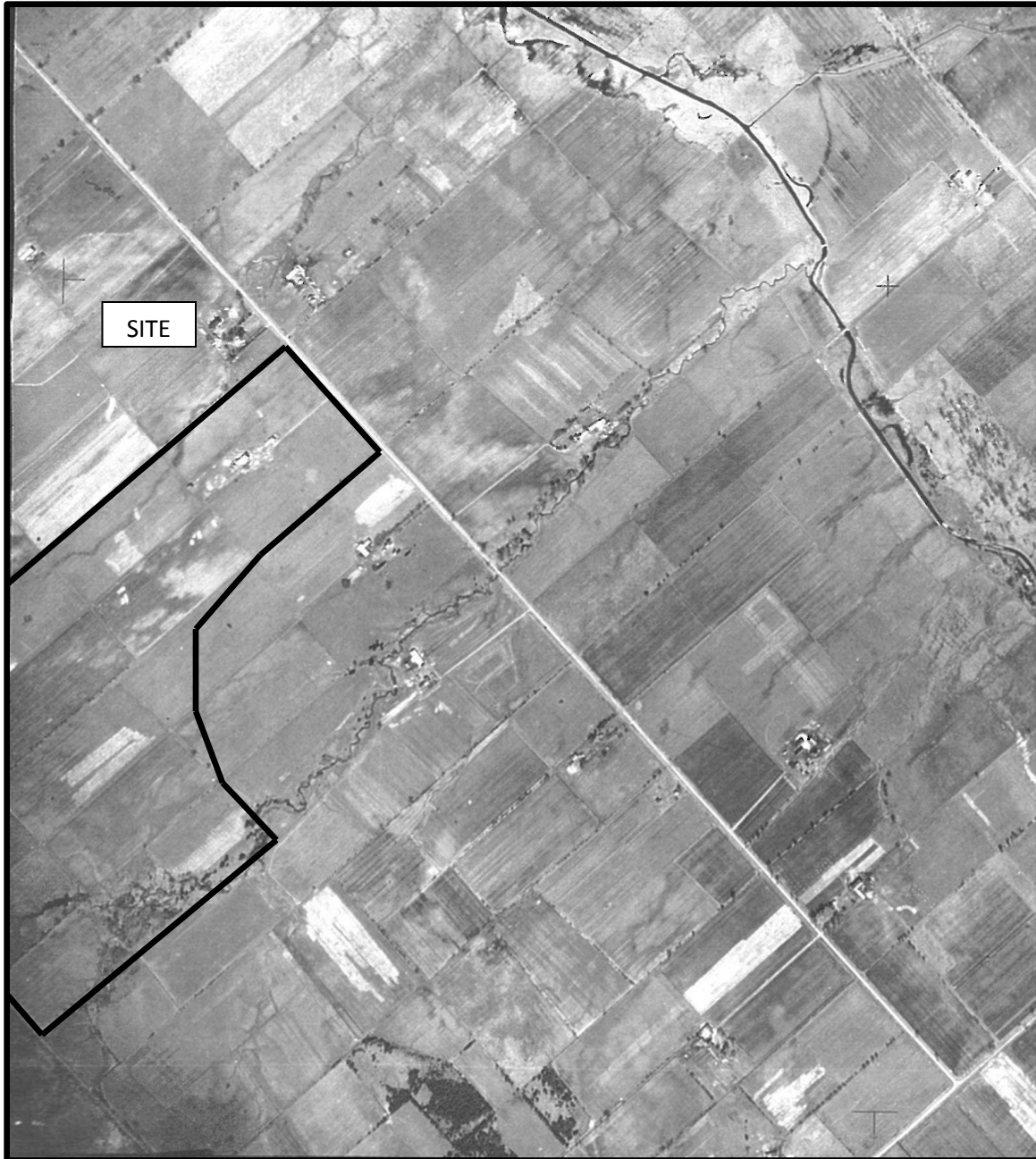
ADDITIONAL INFORMATION:
1) INDUSTRIAL PARK
2) CITY WATER AVAILABLE
3) SEE SOIL REPORT
4) SEE TOPOGRAPHICAL INFORMATION
5) ALL CITY SERVICES AVAILABLE
6) NONE KNOWN

NOTE:
THE PLAN DATA IS COMPILED FROM OFFICE RECORDS OF STANTEC GEOMATICS LTD.
AND HAS NOT BEEN VERIFIED BY FIELD MEASUREMENTS. ALL DISTANCES ARE
APPROXIMATE, TO BE VERIFIED BY FINAL REGISTERED PLANS.

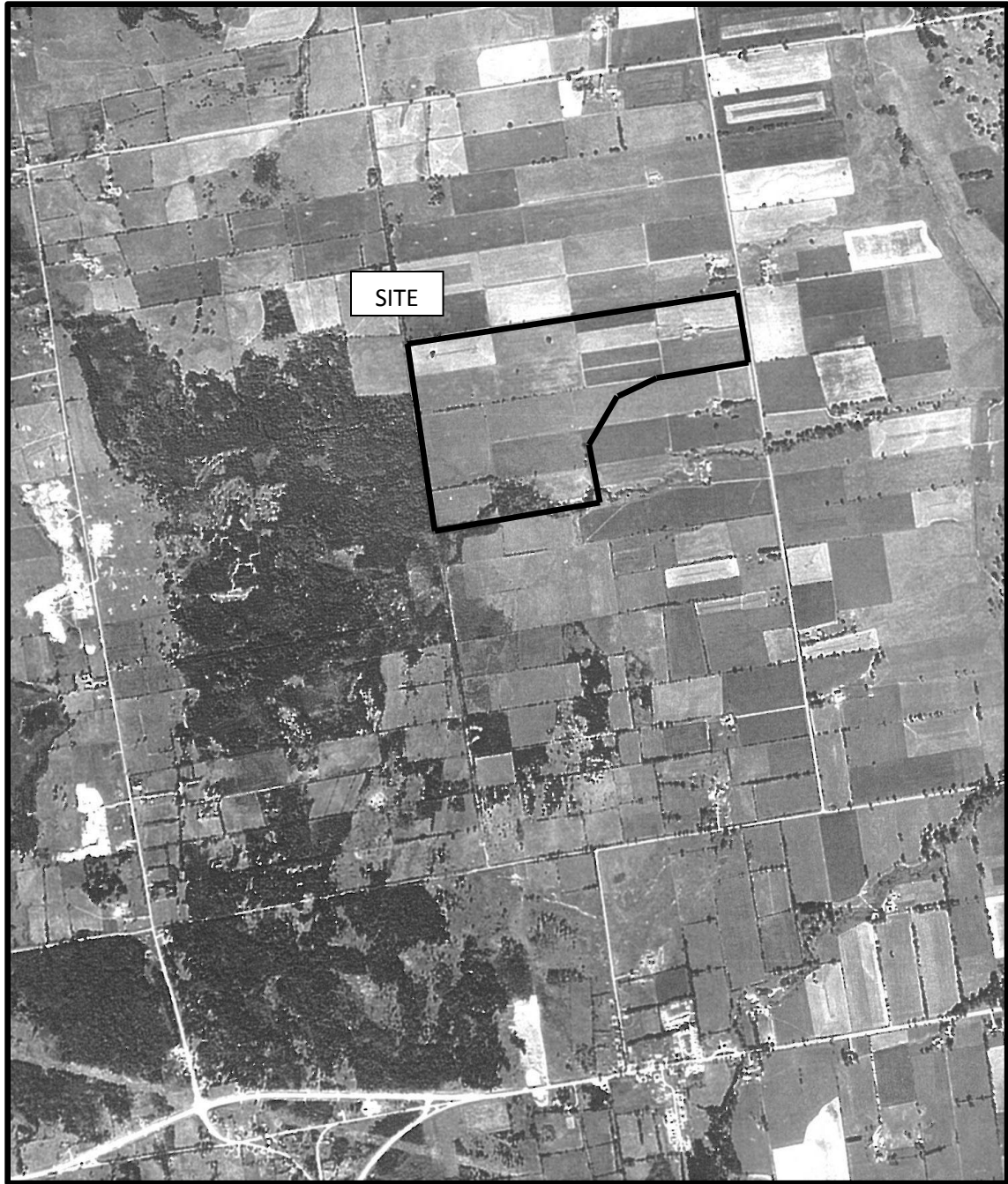


**STANTEC
GEOMATICS
LTD.**
Geomatics Land Surveyors
OTTAWA - ONTARIO
(613) 734-3122 FAX (613) 732-0769
1100, 1100, 1100, 1100, 1100, 1100
www.stantec-geomatics.com

DATE: 2013-07-12
DRAWN BY: [Name]
CHECKED BY: [Name]
DESIGNED BY: [Name]
DATE: 2013-07-12
18181-2021-12 - StantecGeomatics_P103.dwg



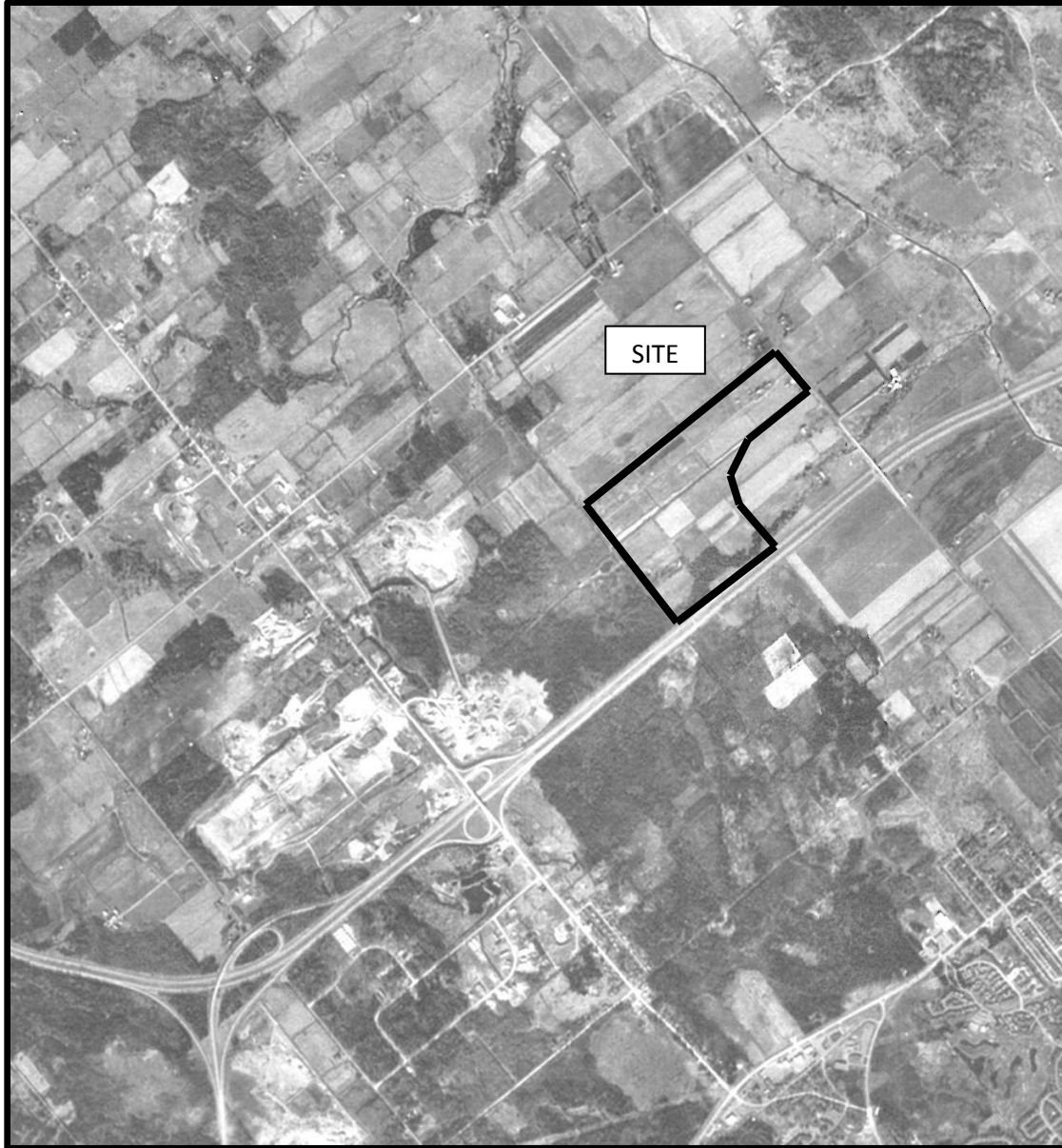
AERIAL PHOTOGRAPH
1947



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

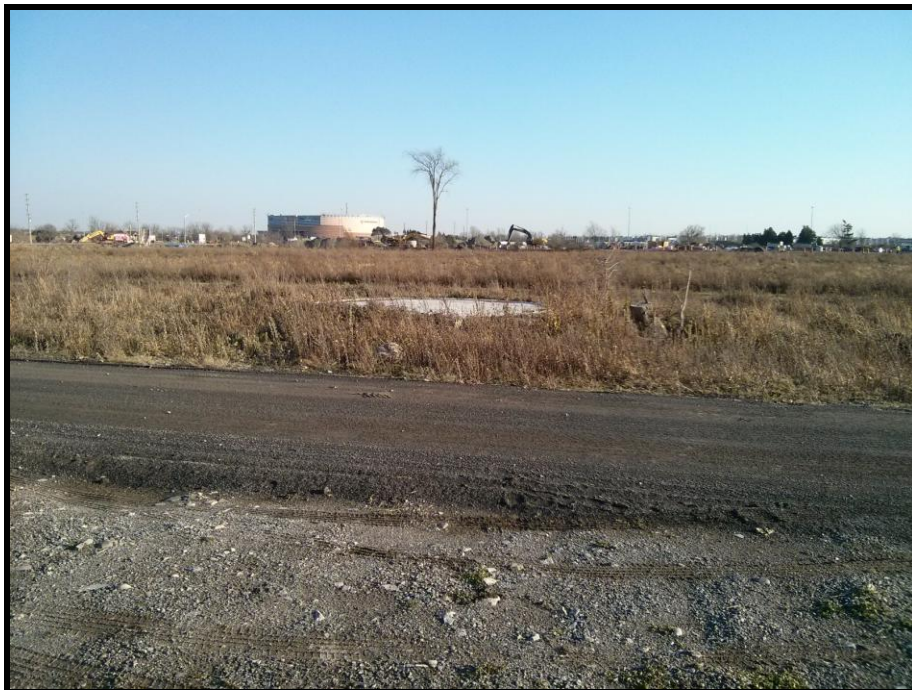
PE3146

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.

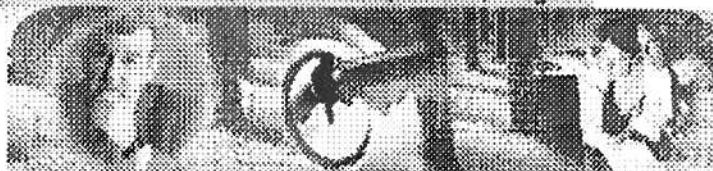
Yours truly,


Heidi Ritscher
FOI Manager

Attachments


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Environment
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[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

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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](#)

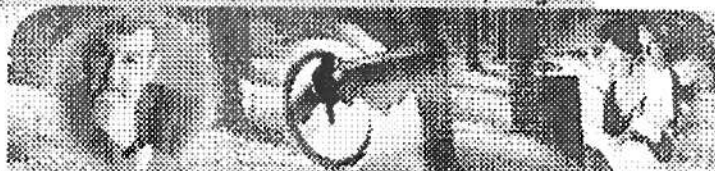


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Environment[central site](#) | [Feedback](#) | [search](#) | [site map](#) | [français](#)[HOME](#) | [AIR](#) | [WATER](#) | [LAND](#) | [ABOUT US](#) | [NEWS & PUBLICATIONS](#)[User Management](#) | [Company Mgmt](#) | [Manifests](#) | [Site Data](#)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

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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

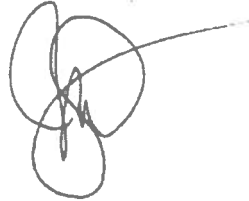
The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* 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	<input type="checkbox"/>
More than 1 Well Record located matching the search criteria provided	<input checked="" type="checkbox"/>
No Well Record found matching the search criteria provided	<input type="checkbox"/>

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.

1252.48

UTM 18Z 426395E
19R 5016700N
Elev. 19R 0337
Basin 251



31650

GROUND WATER BRANCH
164
DEC 16 1957
ONTARIO WATER RESOURCES COMMISSION

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

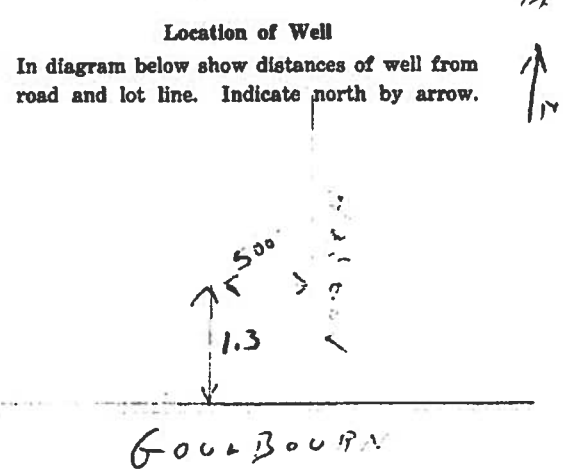
[Redacted] Township, Village, Town or City HUNTER
[Redacted] Village, Town or City
Address 5711

Date completed 4 22 57
(day) (month) (year)

Pipe and Casing Record	Pumping Test
Casing diameter(s) <u>4"</u>	Static level <u>12</u>
Length(s) <u>55'</u>	Pumping rate <u>300 GPM</u>
Type of screen <u>N 3/8"</u>	Pumping level <u>75</u>
Length of screen	Duration of test <u>1 hr</u>

Well Log			Water Record		
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
CLAY	0	42			
SAND	42	43			
CLAY	43	50			
SAND & GRAVEL	50	132	120	108	Sulphur

For what purpose(s) is the water to be used?
Is water clear or cloudy?
Is well on upland, in valley, or on hillside?
Drilling firm
Address
Name of Driller
Address
Licence Number
I certify that the foregoing statements of fact are true.
Date
Signature of Licensee





316501

GROUND WATER BRANCH

No. 3284

SEP 5 1962

UTM 18 12 14216181701E

5 R 510116155.01N

Elev. 14 R 1031215

WATER WELL RECORD

ONTARIO WATER
RESOURCES COMMISSION

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. A. H. E.

Address

Date

AUG 24/62

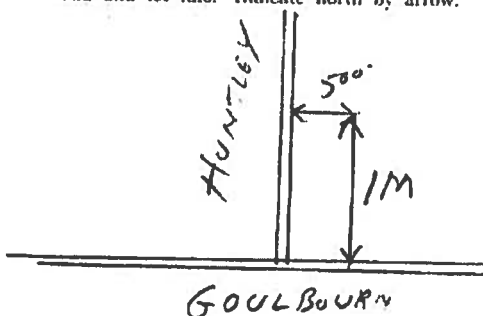
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



30

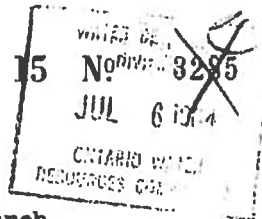
3

C.S.C. 58

5
UTM 182 426 810 02



31654



5 150 116 51 10 10

The Ontario Water Resources Commission Act

Elev. 4 103 25

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

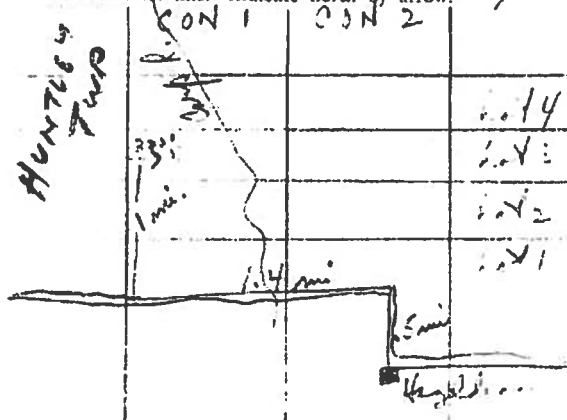
(Signature of Licensee Drilling or Boring Contractor)

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. S.E.P.Y. ETC 1	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
OWNER (SURNAME FIRST) Carp Concrete LTD	ADDRESS 11 Gifford ST NE DEAN	DATE COMPLETED 28-3-85	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

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31	32	33	34	35	36	37	38	39	40
<div style="display: flex; justify-content: space-between;"> <div style="width: 25%;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">41</div> <div style="border: 1px solid black; padding: 2px;">WATER RECORD</div> </div> <div style="width: 40%;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">51</div> <div style="border: 1px solid black; padding: 2px;">CASING & OPEN HOLE RECORD</div> </div> <div style="width: 35%;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">61</div> <div style="border: 1px solid black; padding: 2px;">PLUGGING & SEALING RECORD</div> </div> </div>									
WATER FOUND AT - FEET		KIND OF WATER							
63		<input type="checkbox"/> FRESH <input type="checkbox"/> SALT <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL							
102		<input type="checkbox"/> FRESH <input type="checkbox"/> SALT <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL							
INSIDE DIA INCHES	WATER	WALL THICKNESS INCHES	DEPTH FEET						
6 1/4	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	1.88	0	22					
6 1/2	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		22	105					
DEPTH SET BY FEET		MATERIAL AND TYPE							
FROM	TO								
10-12	10-12								
10-21	22-25								
20-25	30-35								

71	PUMPING TEST METHOD		10	PUMPING RATE		15-20	DURATION OF PUMPING		15-30	25-40
	<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BALLP 50 GPM		25	WATER LEVELS DURING		<input checked="" type="checkbox"/> DUMPING <input type="checkbox"/> RECOVERY		15-30 15-30		25-40
	STATIC LEVEL		WATER LEVEL END OF PUMPING		15-20 15-30		25-30 25-40		30-40 30-50	
	8 FEET		50 FEET		13 FEET		27 FEET		39 FEET	
	IF FLOODING GIVE DATE		PUMP INTAKE SET AT		60 FEET		15-30 15-30		25-30 25-40	
PUMPING TEST	RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		RECOMMENDED PUMP SETTING		60 FEET		RECOMMENDED PUMPING RATE		50 GPM	

FINAL STATUS OF WELL	1 <input checked="" type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED POOR QUALITY 7 <input type="checkbox"/> UNFINISHED
	8 <input type="checkbox"/> OTHER _____	
WATER USE	1 <input checked="" type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input checked="" type="checkbox"/> INDUSTRIAL 5 <input type="checkbox"/> OTHER _____	6 <input type="checkbox"/> COMMERCIAL 7 <input type="checkbox"/> MUNICIPAL 8 <input type="checkbox"/> PUBLIC SUPPLY 9 <input type="checkbox"/> COOLING OR AIR CONDITIONING 0 <input type="checkbox"/> NOT USED
	10 <input type="checkbox"/> OTHER _____	
METHOD OF DRILLING	1 <input type="checkbox"/> CABLE TOOL 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input checked="" type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING
	10 <input type="checkbox"/> 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 WELLS TO OTTAWA AND
 LOT LINES INDICATE NORTH BY AN ARROW

CARP CONCRETE

SPRINT AT CARP CONCRETE

TO OTTAWA

OVERPASS

CARP RD.


1 Km

N

TO ARROW RIVER

HY #417

DRAWER'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	

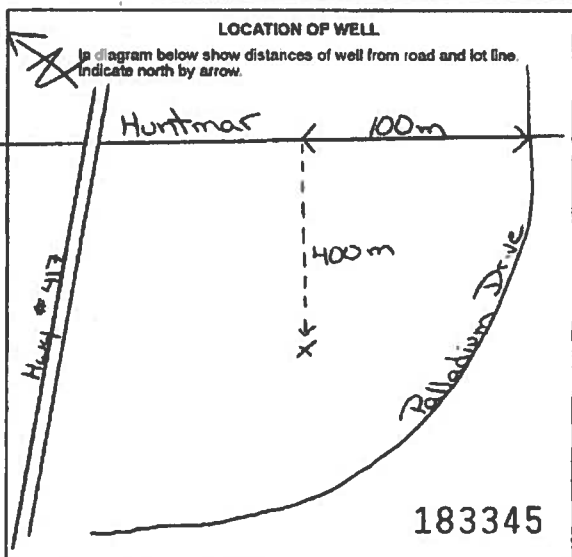
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Clay		Packed	0	10
Gray	Clay		Sticky	10	38
Gray	Sandy Clay		Dry	38	41.6
Gray	Limestone		Medium Hard	41.6	150
Gray	Limestone		Medium Hard	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 <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas 15-18 <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas 20-25 <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas 21-29 <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas 30-33 <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> 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 <input type="checkbox"/> 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 <input type="checkbox"/> Pump <input type="checkbox"/> Ballo Static level Water level end of pumping 16-31 22-31 feet feet If flowing give rate GPM Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep Recommended pump setting Recommended pump rate GPM	Pumping rate GPM Duration of pumping hours Water levels during <input type="checkbox"/> Pumping <input type="checkbox"/> Recovery 15 minutes 30 minutes 45 minutes 60 minutes feet feet feet feet feet Water at end of test <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy Recommended pump rate GPM
---	---

FINAL STATUS OF WELL <input type="checkbox"/> Water supply <input type="checkbox"/> Abandoned, insufficient supply <input type="checkbox"/> Unfinished <input type="checkbox"/> Observation well <input type="checkbox"/> Abandoned, poor quality <input type="checkbox"/> Replacement well <input type="checkbox"/> Test hole <input type="checkbox"/> Abandoned (Other) <input type="checkbox"/> Recharge well <input type="checkbox"/> Dewatering	WATER USE <input type="checkbox"/> Domestic <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Stock <input type="checkbox"/> Municipal <input type="checkbox"/> Other <input type="checkbox"/> Irrigation <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial <input type="checkbox"/> Cooling & air conditioning
METHOD OF CONSTRUCTION <input type="checkbox"/> Cable tool <input type="checkbox"/> Air percussion <input type="checkbox"/> Driving <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Boring <input type="checkbox"/> Digging <input type="checkbox"/> Rotary (reverse) <input type="checkbox"/> Diamond <input type="checkbox"/> Other <input type="checkbox"/> Rotary (air) <input type="checkbox"/> 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 y 97

MINISTRY USE ONLY Data source Date of inspection Remarks	Contractor 1558 Date received CT 17 1997
--	---



The Ontario Water Resources Act
WATER WELL RECORD

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

1529723

Municipality Con
15005 CON 1 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 Palladium Auto Park	Address c/o Golders Ave. 1796 Courtwood Cres.	Date completed 28 day 11 month 92	

[illegible]

WATER RECORD		CASING & OPEN HOLE RECORD				SCREEN				
Water found at - foot		Material		Well thickness inches	Depth - feet		Size of opening (Slot No.)		Diameter inches	Length feet
Kind of water					From To		Material and type		Depth at top of screen feet	
11-12	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	10-11	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		12-13		200 Cement Grout & Hole Plug		20 20	
13-14	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	14-15	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		15-16					
16-17	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	17-18	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		18-19					
19-20	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	20-21	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		21-22					
22-23	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	23-24	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		24-25		200 Cement Grout & Hole Plug		20 20	
25-26	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	26-27	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		27-28					
28-29	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	29-30	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		30-31		200 Cement Grout & Hole Plug		20 20	
31-32	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur Minerals Gas	32-33	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		33-34					

PUMPING TEST	7-1 Pumping test method <input type="checkbox"/> Pump <input type="checkbox"/> Bailer		11-10 Pumping rate GPM		Duration of pumping Hours Mins	
	12-1 Static level		12-2 Water level and of pumping		12-3 Water levels during <input type="checkbox"/> Pumping <input type="checkbox"/> Recovery	
	12-7.1 feet		12-7.2 15 minutes 20-21 30 minutes 22-23 45 minutes 24-25 60 minutes 26-27		feet feet feet feet feet	
	11 flowing give rate 28-31		11 Pump intake set at 32-33		Water at end of test 34-35 <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
	36-37 Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep		38-39 Recommended pump casing feet		40-41 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		
<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply	
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION

<input type="checkbox"/> Cable tool	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Driving
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other _____
<input type="checkbox"/> Rotary (alt)	<input type="checkbox"/> 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 K2S 1A6	
Name of Well Technician	Well Technician's Licence No.
W. Kavanagh/S. Miller	TO095/TO097
Signature of Technician/Contractor	Submission date
<i>[Signature]</i>	day 28 month 11 year 97

MINISTRY USE ONLY	Data source	Case no.	1558	10-03	Date received	DEC 2 2 1997	03-03
	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. 1	Lot 4
Address 2415 Carp Road Stittsville, Ontario		Date completed 9 day 10 month 89 year		

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible]

WATER RECORD		CASING & OPEN HOLE RECORD				SCREEN			
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth - feet From To		Size of opening (Slot No.)	Diameter inches	Length feet
245	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Salty	6 1/8	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	.188	0	21			
	<input type="checkbox"/> Sulphur Minerals Gas <input type="checkbox"/> Sulphur Minerals Gas								
	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Salty	5 15	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		21	275			
	<input type="checkbox"/> Sulphur Minerals Gas <input type="checkbox"/> Sulphur Minerals Gas								
	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Salty	16	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic						
	<input type="checkbox"/> Sulphur Minerals Gas <input type="checkbox"/> Sulphur Minerals Gas								

PLUGGING & SEALING RECORD			
Annular space		Abandonment	
Depth set at - feet From To		Material and type (Cement grout, bentonite, etc.)	
20		Grouted - Cement (A)	

PUMPING TEST	71	Pumping test method <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer	Pumping rate 1 GPM	Duration of pumping 2 Hours
	Static level	Water level during	<input checked="" type="checkbox"/> Pumping	<input type="checkbox"/> 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	<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy
	GPM	Recommended pump setting	Recommended pump rate	
	<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	225 feet	2 GPM	

FINAL STATUS OF WELL		75-1a	
1 <input type="checkbox"/> Water supply	3 <input type="checkbox"/> Abandoned, insufficient supply	7 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	4 <input type="checkbox"/> Abandoned, poor quality	8 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	5 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	6 <input type="checkbox"/> Dewatering		

WATER USE		75-1b	
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION		17	
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> 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	70097
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.

208496

MINISTRY USE ONLY	Job numero	Contractor 1558	Date received DEC 07 1999
	Date of inspection	Inspector	
	Remarks		
	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	Lot 3
Address 8633 Purdy Rd R.R. #3 Richmond, Ontario		Date completed 5 day 11 month 02 year	

21

[illegible][illegible]


WATER RECORD				CASING & OPEN HOLE RECORD				SCREEN LOG			
Water found at - feet		Kind of water		Inside diam inches		Material		Well thickness inches		Depth - feet From To	
10-12		Fresh Sulphur Salty Minerals Gas		10-11		Steel Galvanized Concrete Open hole Plastic				11-16	
15-18		Fresh Sulphur Salty Minerals Gas		17-18		Steel Galvanized Concrete Open hole Plastic				20-23	
20-23		Fresh Sulphur Salty Minerals Gas		24-26		Steel Galvanized Concrete Open hole Plastic				27-30	
30-33		Fresh Sulphur Salty Minerals Gas									
Size of opening (Slot No.)		Diameter		Length		Material and type		Depth at top of screen			
PLUGGING & SEALING RECORD											
<input type="checkbox"/> Annular space <input checked="" type="checkbox"/> Abandonment											
Depth set at - feet		From To		Material and type (Cement grout, bentonite, etc.)							
50		10-13 0 34-17		Solole Plug							
10-17		20-25									
26-29		30-33									

PUMPING TEST	71	Pumping test method <input type="checkbox"/> Pump <input checked="" type="checkbox"/> Sailer	10	Pumping rate	11-14 GPM	Duration of pumping 15-19 HOURS	17-19 MINS
	25	Static level	Water level end of pumping	Water levels during	<input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Recovery		
		19-21	21-14	15 minutes	30 minutes	45 minutes	60 minutes
				35-21	39-21	32-34	35-37
		feet	feet	feet	feet	feet	feet
	26	Blowing gage rate	38-21	Pump intake set at	feet	Water at end of test	
						<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
		Recommended pump type		Recommended pump setting	42-45	Recommended pump rate	42-45
		<input type="checkbox"/> Shallow <input type="checkbox"/> Deep		feet		GPM	

FINAL STATUS OF WELL		54
1 <input type="checkbox"/> Water supply	6 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	7 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input checked="" type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

WATER USE		55-58
1 <input type="checkbox"/> Domestic	6 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	7 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		57
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> 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		P. 27	
Address 8633 Purdy Road		R.R. #3 Richmond, Ontario				Date completed 1 day 11 months 92 year		00 01			
		<div> <div>Northings</div> <div>HC</div> <div>Elevation</div> <div>HC</div> <div>Grid UTM</div> </div>									
21		U		R		K		L		L	

[illegible][illegible]

41 WATER RECORD										51 CASING & OPEN HOLE RECORD										61 PLUGGING & SEALING RECORD									
Water found at - feet		Kind of water								Inside diam inches		Material		Wall thickness inches		Depth - feet		Sizes of opening (Slot No.)		Diameter		Length							
10-12		<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Gas								5 1/4		<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		.188		+ 1.5 21		Material and type		Depth at top of casing									
137		NOT A TEST																											
15-18		<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Gas								17-18		<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		20 22															
20-22		<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Gas								5 15		<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		21		145		<input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment											
25-28		<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Gas								36		<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		27-33				Depth set at - feet From To 21 10-12 4-17 13 51 22-25 26-29 30 33		Material and type (Cement grout, bentonite, etc.) Grouted - Cement (3)									
30-32		<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Gas																											

PUMPING TEST	71	Pumping test method 24 <input checked="" type="checkbox"/> ¹⁰ 25 ¹¹ 26 ¹² 27 ¹³ 28 ¹⁴ 29 ¹⁵ 30 ¹⁶ 31 ¹⁷ 32 ¹⁸ 33 ¹⁹ 34 ²⁰ 35 ²¹ 36 ²² 37 ²³ 38 ²⁴ 39 ²⁵ 40 ²⁶ 41 ²⁷ 42 ²⁸ 43 ²⁹ 44 ³⁰ 45 ³¹ 46 ³² 47 ³³ 48 ³⁴ 49 ³⁵ 50 ³⁶ 51 ³⁷ 52 ³⁸ 53 ³⁹ 54 ⁴⁰ 55 ⁴¹ 56 ⁴² 57 ⁴³ 58 ⁴⁴ 59 ⁴⁵ 60 ⁴⁶ 61 ⁴⁷ 62 ⁴⁸ 63 ⁴⁹ 64 ⁵⁰ 65 ⁵¹ 66 ⁵² 67 ⁵³ 68 ⁵⁴ 69 ⁵⁵ 70 ⁵⁶ 71 ⁵⁷ 72 ⁵⁸ 73 ⁵⁹ 74 ⁶⁰ 75 ⁶¹ 76 ⁶² 77 ⁶³ 78 ⁶⁴ 79 ⁶⁵ 80 ⁶⁶ 81 ⁶⁷ 82 ⁶⁸ 83 ⁶⁹ 84 ⁷⁰ 85 ⁷¹ 86 ⁷² 87 ⁷³ 88 ⁷⁴ 89 ⁷⁵ 90 ⁷⁶ 91 ⁷⁷ 92 ⁷⁸ 93 ⁷⁹ 94 ⁸⁰ 95 ⁸¹ 96 ⁸² 97 ⁸³ 98 ⁸⁴ 99 ⁸⁵ 100 ⁸⁶ 101 ⁸⁷ 102 ⁸⁸ 103 ⁸⁹ 104 ⁹⁰ 105 ⁹¹ 106 ⁹² 107 ⁹³ 108 ⁹⁴ 109 ⁹⁵ 110 ⁹⁶ 111 ⁹⁷ 112 ⁹⁸ 113 ⁹⁹ 114 ¹⁰⁰ 115 ¹⁰¹ 116 ¹⁰² 117 ¹⁰³ 118 ¹⁰⁴ 119 ¹⁰⁵ 120 ¹⁰⁶ 121 ¹⁰⁷ 122 ¹⁰⁸ 123 ¹⁰⁹ 124 ¹¹⁰ 125 ¹¹¹ 126 ¹¹² 127 ¹¹³ 128 ¹¹⁴ 129 ¹¹⁵ 130 ¹¹⁶ 131 ¹¹⁷ 132 ¹¹⁸ 133 ¹¹⁹ 134 ¹²⁰ 135 ¹²¹ 136 ¹²² 137 ¹²³ 138 ¹²⁴ 139 ¹²⁵ 140 ¹²⁶ 141 ¹²⁷ 142 ¹²⁸ 143 ¹²⁹ 144 ¹³⁰ 145 ¹³¹ 146 ¹³² 147 ¹³³ 148 ¹³⁴ 149 ¹³⁵ 150 ¹³⁶ 151 ¹³⁷ 152 ¹³⁸ 153 ¹³⁹ 154 ¹⁴⁰ 155 ¹⁴¹ 156 ¹⁴² 157 ¹⁴³ 158 ¹⁴⁴ 159 ¹⁴⁵ 160 ¹⁴⁶ 161 ¹⁴⁷ 162 ¹⁴⁸ 163 ¹⁴⁹ 164 ¹⁵⁰ 165 ¹⁵¹ 166 ¹⁵² 167 ¹⁵³ 168 ¹⁵⁴ 169 ¹⁵⁵ 170 ¹⁵⁶ 171 ¹⁵⁷ 172 ¹⁵⁸ 173 ¹⁵⁹ 174 ¹⁶⁰ 175 ¹⁶¹ 176 ¹⁶² 177 ¹⁶³ 178 ¹⁶⁴ 179 ¹⁶⁵ 180 ¹⁶⁶ 181 ¹⁶⁷ 182 ¹⁶⁸ 183 ¹⁶⁹ 184 ¹⁷⁰ 185 ¹⁷¹ 186 ¹⁷² 187 ¹⁷³ 188 ¹⁷⁴ 189 ¹⁷⁵ 190 ¹⁷⁶ 191 ¹⁷⁷ 192 ¹⁷⁸ 193 ¹⁷⁹ 194 ¹⁸⁰ 195 ¹⁸¹ 196 ¹⁸² 197 ¹⁸³ 198 ¹⁸⁴ 199 ¹⁸⁵ 200 ¹⁸⁶ 201 ¹⁸⁷ 202 ¹⁸⁸ 203 ¹⁸⁹ 204 ¹⁹⁰ 205 ¹⁹¹ 206 ¹⁹² 207 ¹⁹³ 208 ¹⁹⁴ 209 ¹⁹⁵ 210 ¹⁹⁶ 211 ¹⁹⁷ 212 ¹⁹⁸ 213 ¹⁹⁹ 214 ²⁰⁰ 215 ²⁰¹ 216 ²⁰² 217 ²⁰³ 218 ²⁰⁴ 219 ²⁰⁵ 220 ²⁰⁶ 221 ²⁰⁷ 222 ²⁰⁸ 223 ²⁰⁹ 224 ²¹⁰ 225 ²¹¹ 226 ²¹² 227 ²¹³ 228 ²¹⁴ 229 ²¹⁵ 230 ²¹⁶ 231 ²¹⁷ 232 ²¹⁸ 233 ²¹⁹ 234 ²²⁰ 235 ²²¹ 236 ²²² 237 ²²³ 238 ²²⁴ 239 ²²⁵ 240 ²²⁶ 241 ²²⁷ 242 ²²⁸ 243 ²²⁹ 244 ²³⁰ 245 ²³¹ 246 ²³² 247 ²³³ 248 ²³⁴ 249 ²³⁵ 250 ²³⁶ 251 ²³⁷ 252 ²³⁸ 253 ²³⁹ 254 ²⁴⁰ 255 ²⁴¹ 256 ²⁴² 257 ²⁴³ 258
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FINAL STATUS OF WELL

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

WATER USE

1 ☒ Domestic
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 57

1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

LOCATION OF WELL

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

Purdy Road

21' 6"

39'

#6833

250488

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

MINISTRY USE ONLY	Data source	88 Contractor	99-02	Date received	83-08	95
		1558		DEC 17 2002		
	Date of inspection	Inspector				
	Remarks					
	CSS.E32					

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

12

1534471

Municipality **15005** Con **CON** | | | | |

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

[illegible][illegible]

31

32

WATER RECORD				
Waters found at - foot	Kind of water			
192	1	Fresh	1	Sulphur Minerals
	1	Salty	6	Gas
15-19	1	Fresh	3	Sulphur Minerals
	1	Salty	6	Gas
20-24	1	Fresh	1	Sulphur Minerals
	2	Salty	1	Gas
25-29	1	Fresh	1	Sulphur Minerals
	2	Salty	0	Gas
30-39	1	Fresh	3	Sulphur Minerals
	1	Salty	6	Gas

CASING & OPEN HOLE RECORD				
Insole diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	188	0	40
6 1/8	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		40	198
7 1/2	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			28 50

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

61 PLUGGING & SEALING RECORD			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - first		Material and type (Cement grout, bentonite, etc.)	
From	To		
0 ^{ft}	30'	CEMENT GROUT	
10-21	29-26		
10-22	29-30		

PUMPING TEST	Drilling test method	Pumping rate	Duration of pumping
	<input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer	100 GPM	9 Hours
	Static level	Water levels during	<input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Recovery
	Water level end of pumping	1st interval 15 minutes 2nd interval 30 minutes 3rd interval 45 minutes 4th interval 60 minutes	1st interval 15 minutes 2nd interval 30 minutes 3rd interval 45 minutes 4th interval 60 minutes
	+150 feet	150 feet	150 feet
Flowing g.p.s. rate	Pump intake g.p.s. at	Water level at end of test	
	150 GPM	150 feet	150 feet
Recommended pump type	Recommended pump setting	Recommended pump rate	
<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	100 feet	20 GPM	

FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> Water supply	7 <input type="checkbox"/> Abandoned, insufficient depth	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	8 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	9 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	10 <input type="checkbox"/> Damaged	

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 <input type="checkbox"/> Cattle trail	9 <input type="checkbox"/> Tree preservation	10 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	10 <input type="checkbox"/> Boring	11 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	11 <input type="checkbox"/> Diamond	12 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (H.D.)	12 <input type="checkbox"/> 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. SILUSE	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	Contract No.	Year	Date received	Lot #
		6574		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

1998

2005

PIN

045080008

045080087

Multi-NAIC

Y

Y

Multiple Activities

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**

1998

2005

PIN

045080008

045080087

Multi-NAIC

Y

Y

Multiple Activities

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

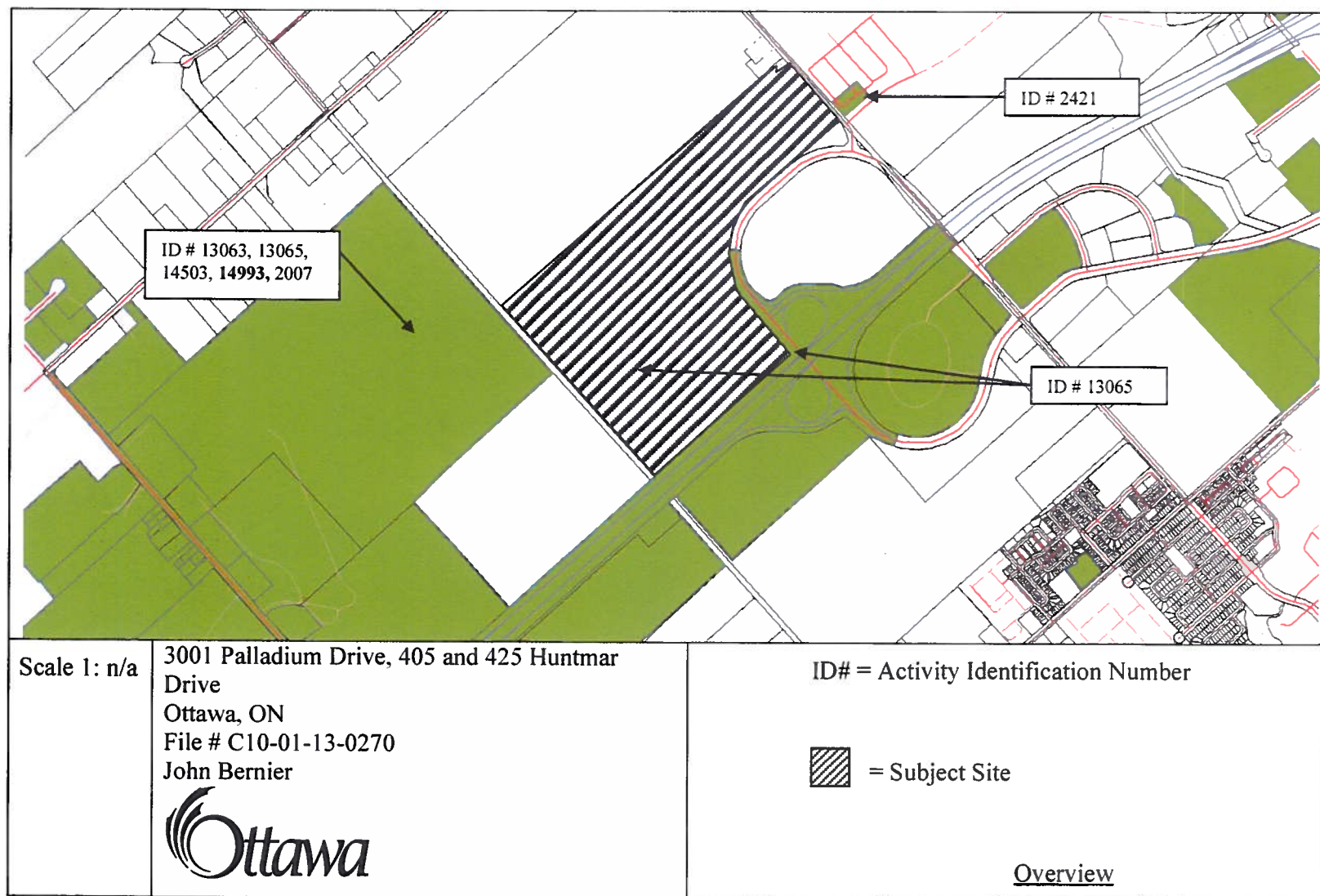
Company Name**Year of Operation**

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