Geotechnical Engineering

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Phase I Environmental Site Assessment

2390 and 2410 Stevenage Drive Ottawa, Ontario

Prepared For

Sysco Corporation

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Report: PE4373-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Sysco Corporation to conduct a Phase I – Environmental Site Assessment (ESA) for the Phase I Property addressed 2390 and 2410 Stevenage Drive, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the Phase I Property and Study Area and to identify any environmental concerns with the potential to impact the subject property.

Based on a review of available historical sources, the subject property and neighbouring properties were originally developed in the early 1970's and 1980's for industrial purposes. Historical research indicated that both on-site establishments have been in operations since 1980's.

Several PCAs were identified, however two (2) are considered a potential environmental concern to the Phase I Property. One on-site PCA, Thermo King (trucking repair shop) is considered to result in an APEC and has been operating since 1994. An off-site PCA considered to result in an APEC on the Phase I Property included a metal fabrication facility, which has been operating since 2000. Other off-site PCAs were not considered to represent APECs on the Phase I Property based on their separation distances and/or orientations with respect to the subject land.

Following the historical review, a site visit was conducted. Previously identified PCAs were found on the Phase I Property at the time of the site visit as well as two off-site PCAs (commercial trucking companies – Penske and Ryder), located approximately 20 m north of the Phase I Property. Based on the orientation, down gradient from the subject site, both PCAs were not considered to represent an APEC on the Phase I Property.

Recommendations

Based on the findings of the Phase I ESA, it is our opinion that a Phase II Environmental Site Assessment is required for the property.

1.0 INTRODUCTION

At the request of Sysco Corporation, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) for the properties addressed 2390 Stevenage Drive and 2410 Stevenage Drive, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the subject properties and study area of 250 meters to identify any environmental concerns with the potential to have impacted the subject property. The subject properties are also referred to as the Phase I Property in this report.

Paterson was engaged to conduct this Phase I ESA by Florin Stanescu of Sysco Corporation. Mr. Stanescu can be reached by telephone at (616) 977-4515.

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation 153/04 as amended by O.Reg. 269/11, 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:	2390 Stevenage Drive and 2410 Stevenage Drive, in Ottawa, Ontario.
Property Identification Numbers (PINs):	04165-0559, 04165-1035, 04165-0558, 041651037
Location:	The Phase I Property is situated on the south side of Stevenage Drive, in the City of Ottawa.
Latitude and Longitude:	45° 22' 49" N, 75° 36' 25" W
Site Description:	
Configuration:	Irregular
Configuration: Site Area:	Irregular 11.7 hectares (approximate)
, and the second s	
Site Area:	11.7 hectares (approximate)

Services: The subject site is situated in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of 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;
- D 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

Based on a review of historically available information, the Phase I Property was first developed for commercial / industrial purposes as early as 1974.

Fire Insurance Plans

Fire insurance plans (FIPs) providing coverage of the Phase I Property and Study area were not available.

City of Ottawa Street Directories

City directories for the Phase I Property and properties within the Phase I Study Area were reviewed at the National Archives, in approximate 10 year intervals, from 1970 through 2011.

The Phase I Property addressed 2390 and 2410 Stevenage Drive were first listed in 1981/1982 as Tannis Trading Incorporated, and Faguy Truck Repair in 1992, respectively. The current city listings at these addresses are Tannis Food Distributors (2390 Stevenage Drive) and Thermo King (2410 Stevenage Drive). Thermo King operates as a transportation refrigeration maintenance and repair garage. Thermo King is identified as a potentially contaminating activity (PCA) and represents an area of potential environmental concern (APEC) on the Phase I Property.

The neighbouring properties were listed primarily as industrial properties in 1974. Five PCAs have been identified on and off site. A list of these PCAs that represent APECs are also provided in Table 1. One off-site PCA, Russel Metals, located to the immediate east of the subject property was identified as an APEC to the Phase I Property.

Table 1: 0	Table 1: City Directories – PCAs identified in the Phase I Study Area					
Address Listed Activity		Years Listed	Approximate Distance / Orientation from Site	APEC (Y / N)		
Stevenage	e Drive					
2410	Faguy Truck Repair & Thermo King	1992-1994 1994-present	on Phase I Property	Y		
2420	Russel Metals	2000-present	5 m E	Y		
2450	Harper Detroit Diesel Engines Repair	1992-2001	100 m NE	Ν		
2350	2350 Raven's Chemicals		60 m W	Ν		
2320	Harper Detroit Diesel Ltd. (Transmission Repair)	1975-1992	100 m W	Ν		

Other off-site PCAs identified through the City Directory review are not considered to represent APECs on the Phase I Property based on their separation distances and/or orientations (cross-gradient) with respect to the Phase I Property. On and off-site PCAs are presented on Drawing PE4373-2 – Surrounding Land Use Plan in Appendix 2.

Previous Engineering Reports

Paterson has conducted several environmental and geotechnical investigations in the vicinity of the Phase I Property.

The following report was reviewed prior to conducting this assessment:

"Phase I - Environmental Site Assessment, Vacant, Undeveloped Land Stevenage Drive, Ottawa, Ontario," prepared by Paterson Group, dated August 11, 2014.

A Phase I - Environmental Site Assessment was carried out for vacant parcels of the southern portion of the subject property, addressed 2200 and 2420 Stevenage Drive. Based on the Phase I report, the only environmental concern was the apparent encroachment in the northeast corner of the property by the adjacent business Russel Metals (2420 Stevenage Drive). A Phase II ESA was not recommended for the vacant property.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on July 24, 2018. The Phase I Property was 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 on July 24, 2018. No PCB waste storage sites were identified on the Phase I Property or Study Area.

MOECC 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 1 km of the Phase I Property.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. A response from the MOECC had not been received at the time this report was issued. Pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. A response from the MOECC had not been received at the time this report was issued. Pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review.

A response from the MOECC had not been received at the time this report was issued. Pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. A response from the MOECC had not been received at the time this report was issued. Pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MOECC Brownfields Environmental Site Registry

A search of the MOECC Brownfields Environmental Site Registry was conducted for the properties within the Phase I Study Area. No Records of Site Condition (RSCs) have been filed for the Phase I Property or for any properties within a 250m radius.

MOECC Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no active or closed waste disposal sites or former manufactured gas or coal tar distillation plans within the Phase I ESA study area.

Areas of Natural Significance (ANSI)

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 July 11, 2018. The search did not reveal any natural features or ANSIs on the Phase I Property or within the Phase I ESA study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 11, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. Two (2) records were listed in the TSSA registry for the adjacent property to the east at 2420 Stevenage Drive (Russel Metals). A full TSSA service report has been requested for the above noted property. 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. Based on this document, there are no former landfills within the Phase I ESA Study Area.

Former Industrial Sites

The report entitled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" was reviewed. The Phase I Properties or study area were not listed in the database of former industrial sites

City of Ottawa Historical Land Use Inventory (HLUI)

A requisition form was sent to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property. A response had not been received at the time this report was issued. A copy of the HLUI request form is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

- 1946 The Phase I Property appears to be undeveloped parcels of land used for agriculture. Neighbouring land use appears as agriculture with some farmsteads.
- 1958 No significant changes are apparent to the Phase I properties or surrounding lands.

- 1965 The Phase I Property and surrounding lands appear unchanged from the previous photograph.
- 1976 The Phase I properties and surrounding lands appear to have been partially developed. A new roadway providing access to the subject properties is noticeable along with a warehouse on the northwest corner of the property and smaller buildings (along the east side of the property. Some of the immediately adjacent properties are also developed with what appear to be buildings used for industrial purposes. The surrounding lands appear to be under preconstruction phase with visible ground disturbance.
- 1983 No significant changes are apparent to the Phase I properties or surrounding lands.
- 1995 The Phase I properties and surrounding land have significantly changed. An addition has been added to the warehouse on the Phase I property. The lands to the north and west of the subject properties have been developed with new industrial/commercial buildings. New roadways and a residential subdivision is also apparent south of the subject properties, as well as an industrial area east of the subject properties.
- 2005 Two (2) new additions have been made to the warehouse on the Phase I properties. The building density and new roadways are noticeable in the surrounding land.
- 2015 The Phase I Property and surrounding lands appear unchanged from the previous photograph. The Phase I property and surrounding land is depicted as is today.

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

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the Phase I Property is approximately 79 m above sea level.

The regional topography in the general area of the Phase I Property slopes downward to the northwest, towards the Ottawa River. 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 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 shale of the Carlsbad Formation. Overburden thickness across the Phase I Property ranged from 5 to 15 meters and consisted of offshore marine deposits of clay and silt.

Water Well Records

Well records for all drilled wells within the Phase I Study Area were obtained from the MOECC website. Based on the results of the well records search, there are seventeen (17) well records within the 250 m study area. Six (6) monitoring well records were identified on the Phase I Property (2390 and 2410 Stevenage Drive).

A total of eleven (11) monitoring well and well abandonment records were obtained for the following properties within the Phase I Study Area: 2450 Stevenage Drive (3 abandoned wells and 2 monitoring wells); 2320 Stevenage Drive (5 monitoring wells); and, 2373 Stevenage Drive (1 monitoring well).

Water Bodies and Areas of Natural Significance

The McEwan Creek is the closest water body, at approximately 170 m northeast of the Phase I Property. No other water bodies were identified in the Phase I study area. No areas of natural significance were identified within the Phase I study area.

5.0 INTERVIEW

Mr. Paul Laurin with Tannis Food Distributors (Tannis) was interviewed at the time of the visit. Mr. Laurin indicated that to his knowledge there are no potential environmental concerns with respect to the current use of the Phase I Property and surrounding area.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted on August 1, 2018. Weather conditions were overcast, with a temperature of approximately +32°C. Personnel from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The Phase I Property was occupied by two (2) buildings, located at 2390 Stevenage Drive (Tannis) and 2410 Stevenage Drive (Thermo King).

The Tannis building is two (2) storey warehouse fronting onto Stevenage Drive. The building was constructed in the early 1970's, with two additions, one extending the length of main building (late 1980's to early 1990's), and the other east section of the current building (between 1995 – 1999). The building is constructed with a slab on grade foundation and finished with beige metal siding and metal roof. The building is heated with several natural gas suspended furnaces (warehouse use). The HVAC system (office use) is located on the roof, at the south end of the building.

Thermo King operates as a transportation repair garage. The building was constructed in the early 1970's. The building is constructed with a slab on grade foundation and is finished with beige and white metal siding and metal roof. The building is heated with several natural gas suspended furnaces. A compressor was located on the west side of the garage.

Site Features

The Tannis building occupies a small portion of the property. The north portion of the property, fronting onto Stevenage Drive is a grassed, treed area. The remaining parts of the property are paved parking areas. Eight (8) loading docks are located on the west side of the building, as well as a garbage compactor.

The Thermo King building occupies a fifth of the property. The north portion of the property, fronting onto Stevenage Drive is a grassed, treed area. The remaining parts of the property are paved parking areas.

Both properties are municipally serviced; water and sewer enter both buildings from Stevenage Drive.

The site topography of the Phase I Property is relatively flat and at grade with the surrounding roadways which slopes downwards towards the adjacent property to the south. The regional topography generally slopes downward to the south towards the McEwan Creek, and regional groundwater is anticipated to flow to the north-northwest, toward the Ottawa River.

Water drainage for the subject site occurs primarily by sheet-flow to catch basins on the Phase I Property and along adjacent streets, and infiltration on the undeveloped land. Ponded water was not observed at either location at the time of the site visit.

Potential Environmental Concerns

Groundwater Monitoring Wells

One groundwater monitoring well was identified on the Phase I Property (Tannis). Well records identified six (6) monitoring wells on the Phase I Property. A total of eleven (11) monitoring well and well abandonment wells were also identified within the Phase I Study Area.

The monitoring well records on the Phase I Property and study area have been attached in Appendix 2.

Underground Utilities

Underground utilities present on the Phase I Property include natural gas, private water and sewer (from Stevenage Drive).

Ground Surface

The ground surface across the property consisted of an asphaltic concrete parking lot and grassed land (southern portion of property). There are landscaped areas fronting Stevenage Drive. The ground surface area at Tannis appeared free of stains. Thermo King, however showed signs of staining on the south side of the garage where waste is kept. No signs of stressed vegetation were observed on the Phase I Property.

Railway Lines

No railway lines were observed on the subject site or within the Phase I ESA study area.

D Polychlorinated Biphenyls (PCBs) and Transformer Oil

One pole mounted transformer was observed on the eastern perimeter of the subject site. At the time of assessment, no leaks, staining/discolouration or dead grass beneath the electrical equipment was observed.

One pad mounted transformer was located off-site on the adjacent property to the west. At the time of assessment, no leaks, staining/discolouration or dead grass beneath the electrical equipment was observed on the concrete pad.

The transformers are not considered to be an environmental concern at this time inspection.

Unidentified Substances

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

□ Waste Storage and Disposal

Waste produced at Tannis consists mostly of commercial packing waste from food products and recyclables. Waste produced at Thermo King comprised of engine oils, solvents and other industrial fluids, as well as used and cannisters and metal drums. Waste produced from both sites are collected by a contractor licenced for these works on a regular basis.

Given Storage Fuel and Chemical Storage

No signs of underground storage tanks (USTs) or above ground storage tanks (ASTs) were observed on the exterior of either sites at the time of the assessment. 20 L propane tanks were observed to be stored on the south side of the garage. Used jerry cans were also observed next the propane tanks.

Interior Assessment

A general assessment of 2390 Stevenage Drive (Tannis) is as follows:

- □ The floors consisted of vinyl times, ceramic times, and carpet in the offices, and concrete throughout the warehouse.
- □ The walls consisted of drywall in the office, and concrete and cinder blocks (warehouse).
- □ The ceilings consisted of 2 by 4 ceiling tiles (offices) and steel and metal roof (warehouse).
- □ Lighting throughout the building was observed to be a mix of incandescent and fluorescent fixtures.

Heating in the warehouse is provided via a natural gas suspended furnace and electric base board heater. The roof mounted HVAC system is used to heat and cool the office space in the warehouse.

A general assessment of 2410 Stevenage Drive (Thermo King) is as follows:

- □ The floors consisted of ceramic tiles (lobby) and concrete (garage).
- □ The walls consisted of drywall (lobby) and concrete and cinder block (garage).
- The ceilings consisted of plastered drywall.
- □ Lighting throughout the building was observed to be a mix of incandescent and fluorescent fixtures.

Heating in the garage is provided via a natural gas suspended furnace. The office is cooled with a central air unit – the compressor is located on the west side of the building (exterior).

Potentially Hazardous Building Products

□ Ozone Depleting Substances (ODSs)

Refrigerators, coolers, freezers, fire extinguishers and air conditioning units may be potential sources of ozone depleting substances (ODSs) on site. These appliances should be regularly serviced and maintained by certified contractors.

D Potentially Hazardous Building Materials and Designated Substances

Based on the age of the subject structures (early 1970's) lead-containing paints, polychlorinated biphenyl (PCB)-containing ballasts and asbestos containing materials (ACMs) may be present within the subject structures. Two (2) dry transformers were observed inside Tannis.

Suspected ACMs within the subject structures include: vinyl floor tiles, drywall jointing compound and ceiling tiles. Potential ACMs were observed to be in good condition on both sites.

Painted surfaces were observed to be in good condition at the time of the site visit.

Other Potential Environmental Concerns

Given Storage Tanks

No underground fuel storage tanks (USTs) or vent and fill pipes were observed on the Phase I Property. One aboveground oil storage tank (AST) was identified inside the garage at Thermo King. The AST is used to store of spent engine oil. Some staining was observed below the tank. Both buildings have always been heated using natural gas.

Wastewater Drainage

No wastewater drains were observed. Two (2) concrete catchment basins were observed at the garage (Thermo King); one adjacent to the AST and the other 2.5 m away. The catchment basins are emptied yearly by a licensed contractor. No floor drains were observed throughout either subject building.

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 Stevenage Drive, followed by a transportation company;
- □ South Residential subdivision;
- **D** East Russel Metals, followed by a transportation engine repair garage;
- □ West Window and door manufacturing company, followed by an eatery

and print shop.

Land use within the Phase I Study Area is primarily used for light to medium industrial purposes. Five (5) PCAs were identified within the Phase I study area and are presented in Table 2.

Table 2: PCAs identified in the Phase I Study Area							
Address Listed Activity		Years Listed	Approximate Distance / Orientation from Site	APEC (Y / N)			
Stevenage	Stevenage Drive						
2410	Thermo King & truck repair	1992-present	on Phase I Property	Y			
2420	Russel Metals	2000-present	5 m E	Y			
2450	Wajax Power Systems	2012-present	100 m NE	N			
2323	Penske	2008-present	50 m NW	N			
2390	Ryder	2000-present	25 m N	Ν			

Three (3) of the five (5) PCAs are not considered an environmental concern to the subject site due to separation distance and/or location cross/down gradient from the subject property. The other two (2) PCAs are identified to represent APECs on the Phase I Property, these being Thermo King and Russel Metals, addressed 2410 and 2420 Stevenage Drive, respectively. Russel Metals is adjacent to the immediate east of the subject property. Surrounding land use within the Phase I Study Area is presented on Drawing PE4373-2 – Surrounding Land Use Plan. PCAs that represent APECs to the Phase I Property are shown on Drawing PE4373-1 – Site Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the Phase I Property as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 3: Land Use History					
Time Period	Potentially Land Use Contaminating Activities		Areas of Potential Environmental Concern		
2390 Stevenage Drive					
Prior to 1966 Undeveloped (possibl agricultural)		None	None		
early 1970's-present	early 1970's-present Warehouse (Tannis)		None		
2410 Stevenage Drive					
Prior to 1966	Undeveloped (possibly agricultural)	None	None		
early 1970's-present Unlisted		None	None		
1992-1994	92-1994 Faguy Truck Repair		Yes		
1994-present Thermo King		Yes	Yes		

Potentially Contaminating Activities (PCAs)

The following identifies PCAs on the Phase I Property and Study Area, as per Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11, and applicable item number:

- Item 8: "Chemical Manufacturing and Processing and Bulk Storage" this PCA was identified at Raven's Chemicals (2350 Stevenage Drive);
- Item 10: "Commercial Autobody Shops" this PCA was identified at Ivan's Auto Shop (2350 Stevenage Drive);
- Item 11: "Commercial Trucking and Container Terminals" this PCA was identified at Ryder and Penske (2323 and 2393 Stevenage Drive);
- Item 28: "Gasoline and Associated Products Storage in Fixed Tanks" this PCA was identified at Russel Metals (2420 Stevenage Drive);

- Items 34: "Metal Fabrication" these PCAs were identified at Russel Metals (2420 Stevenage Drive);
- Item 43: "Plastics (include Fibreglass) Manufacturing and Processing" this PCA was identified at Allied Plastics (2295 Stevenage Drive);
- Item 52: "Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems" – this PCA was identified at Thermo King, Wajax Power Systems, Harper Detroit Diesel Transmission Repair Shop (2410, 2450 and 2320 Stevenage Drive, respectively).

Table 4: PCAs identified in the Phase I Study Area						
Address	Listed Activity	Years Listed	Approximate Distance / Orientation from Site	APEC (Y / N)		
Stevenage	e Drive					
2410	Thermo King & truck repair	1992-present	on Phase I Property	Y		
2420	Russel Metals	2000-present	5 m E	Y		
2450	Wajax Power Systems	2012-present	100 m NE	N		
2350	Ivan's auto repair; Raven's chemical	1981-1992; 2000-2001	50 m W	Ν		
2320	Former Diesel Transmission shop	1975-1992	115 m W	Ν		
2295	Allied Plastics	1992	250 m W	N		
2323	Penske	2008-present	50 m NW	N		
2390	Ryder	2000-present	25 m N	N		

On-site and off-site PCAs that are considered to represent Areas of Potential Environmental Concern (APECs) on the Phase I Property are further discussed in the following section. These PCAs are depicted in red on Drawing PE4373-2 – Surrounding Land use Plan.

Based on their separation distances, orientations with respect to the Phase I Property and/or information contained in the MOECC Environmental Site Registry,

the remaining off-site PCAs noted above are not considered to represent APECs on the subject land. These PCAs are depicted in green on Drawing PE4373-2 – Surrounding Land use Plan.

Areas of Potential Environmental Concern (APEC)

Based on the length of operation and location of the PCAs with respect to the Phase I Property, resulting APECs as well as the associated contaminants of potential concern (CPCs) and potentially impacted media are presented in the Table 5.

Table 5: AreasArea ofPotentialEnvironmentalConcern	Location of Area of Potential Environmental Concern with respect to Phase I	nvironmental Co Potentially Contaminating Activity, as per Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11	Dencern (Al Location of PCA (on-site or off- site)	PEC) Contaminants of Potential Concern (CPCs)	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
2410 Stevenage Drive	Property North east portion of the Phase I Property	Item 52 – Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems	On-Site	BTEX, PHCs, VOCs	Soil and groundwater
2420 Stevenage Drive	Adjacent to the immediate east of subject property	Item 28 – Gasoline and Associated Products Storage in Fixed Tanks; Items 34: Metal Fabrication	Off-site	BTEX, PHCs, VOCs	Soil and groundwater

Contaminants of Potential Concern (CPC)

Based on the past and current uses of the subject site, the following Contaminants of Potential Concern (CPCs) have been identified in the soil and/or groundwater:

- □ Benzene, ethylbenzene, toluene and xylenes (BTEX);
- D Petroleum hydrocarbons fractions (PHCs, F1-F4);
- □ Volatile organic compounds (VOCs); and



7.2 Conceptual Site Model

Geological and Hydrogeological Setting

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 shale of the Carlsbad Formation. Overburden thickness across the Phase I Property ranged from 5 to 15 meters and consisted of offshore marine deposits of clay and silt.

The regional topography slopes down to the south east, however the topography in the immediate vicinity of the Phase I Property slopes down to the south towards McEwan Creek. The regional groundwater flow is anticipated to flow to the northnorthwest, toward the Ottawa River.

Contaminants of Potential Concern

The CPCs identified for the soil and/or groundwater beneath the Phase I Property include BTEX, VOCs and PHCs.

Existing Buildings and Structures

The Phase I Property is occupied by two (2) slab-on-grade building structures; one large, 2-storey warehouse building on 2390 Stevenage Drive and a garage on 2410 Stevenage Drive.

Water Bodies

The closest body of water to the Phase I Property within the Phase I Study Area is the McEwan Creek, 20 meters.

Areas of Natural Significance

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

Drinking Water Wells

No drinking water wells are located on the Phase I Property or within the Phase I Study Area.

Groundwater Monitoring Wells

Two (2) monitoring wells were observed on the Phase I Property at the time of the site visit.

Well records for all drilled wells within the Phase I Study Area were obtained from the MOECC website. Based on the results of the well records search, there are a total of seventeen (17) well records within the 250 m study area. Six (6) monitoring well records were identified on the Phase I Property (2390 and 2410 Stevenage Drive). Eleven (11) monitoring well and well abandonment records were obtained for the following properties within the Phase I Study Area: 2450 Stevenage Drive (3 abandoned wells and 2 monitoring wells); 2320 Stevenage Drive (5 monitoring wells); and, 2373 Stevenage Drive (1 monitoring well).

Fill Material

No evidence of fill material was observed at the time of the site visit.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is primarily light to medium industrial use with occasional commercial (restaurants). Land use is shown on Drawing PE4373-2 - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Table 4 in Section 7.1, one (1) on-site PCA and seven (7) off-site PCAs have resulted in two (2) APECs on the Phase I Property.

Additional historical PCAs were identified within the Phase I Study Area, however these activities were not considered to represent APECs on the Phase I Property based on their respective separation distances and/or orientations with respect to the Phase I Property, in combination with the extensive development of the neighbouring properties and information contained in our files.

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 areas of potential environmental concern on the subject site resulting from historical uses of the site and neighbouring properties. The presence of potentially contaminating activities was confirmed by a variety of independent sources. The conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Sysco Corporation to conduct a Phase I – Environmental Site Assessment (ESA) for the Phase I Property addressed 2390 and 2410 Stevenage Drive, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the Phase I Property and Study Area and to identify any environmental concerns with the potential to impact the subject property.

Based on a review of available historical sources, the subject property and neighbouring properties were originally developed in the early 1970's and 1980's for industrial purposes. Historical research indicated that both on-site establishments have been in operations since 1980's.

Several PCAs were identified, however two (2) are considered a potential environmental concern to the Phase I Property. One on-site PCA, Thermo King (trucking repair shop) is considered to result in an APEC and has been operating since 1994. An off-site PCA considered to result in an APEC on the Phase I Property included a metal fabrication facility, which has been operating since 2000. Other off-site PCAs were not considered to represent APECs on the Phase I Property based on their separation distances and/or orientations with respect to the subject land.

Following the historical review, a site visit was conducted. Previously identified PCAs were found on the Phase I Property at the time of the site visit as well as two off-site PCAs (commercial trucking companies – Penske and Ryder), located approximately 20 m north of the Phase I Property. Based on the orientation, down gradient from the subject site, both PCAs were not considered to represent an APEC on the Phase I Property.

Recommendations

Based on the findings of the Phase I ESA, it is our opinion that a Phase II Environmental Site Assessment is required for the property.

Ditawa Kingston North Bay

9.0 STATEMENT OF LIMITATIONS

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

Paterson Group Inc.

Mandy Witteman, MASc. EIT



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

Report Distribution:

□ Sysco Corporation

Paterson Group



10.0 REFERENCES

Federal Records

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

Provincial Records

MOECC Freedom of Information and Privacy Office. MOECC Municipal Coal Gasification Plant Site Inventory, 1991. MOECC document titled "Waste Disposal Site Inventory in Ontario". MOECC Brownfields Environmental Site Registry. Office of Technical Standards and Safety Authority, Fuels Safety Branch. MNR Areas of Natural Significance. MOECC Water Well Inventory.

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. City of Ottawa Historical Land Use Inventory (HLUI) database The City of Ottawa eMap website.

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, July 2018. Draft Plan of Survey prepared by Annis, O'Sullivan, Vollebeek Ltd. Personal Interviews.

Previous Engineering Reports.

Public Information Sources

Google Earth. Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

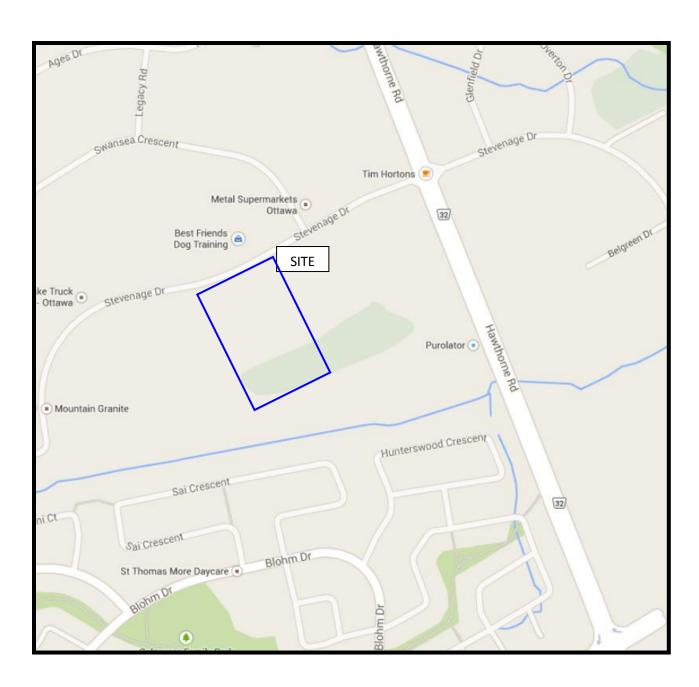
FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4373-1 – SITE PLAN

DRAWING PE4373-2 – SURROUNDING LAND USE PLAN

patersongroup -

FIGURE 1 KEY PLAN



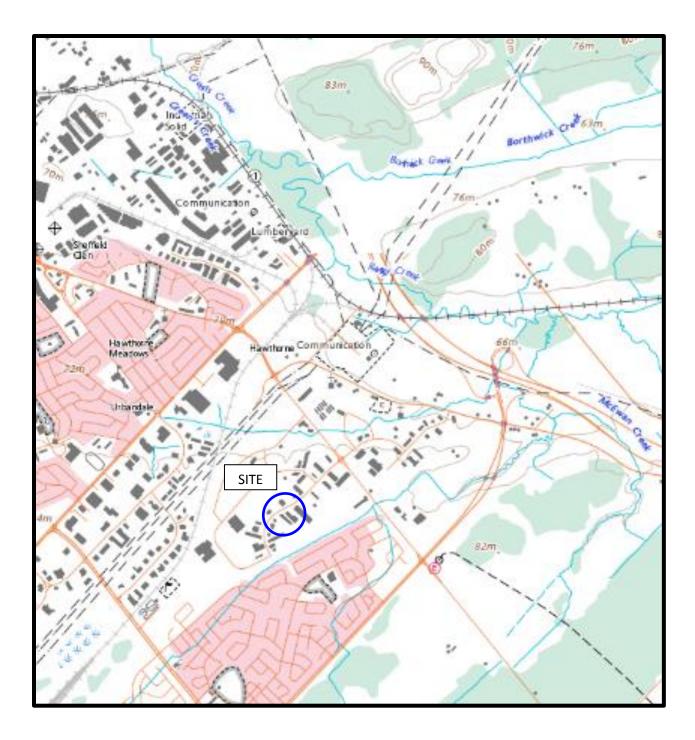
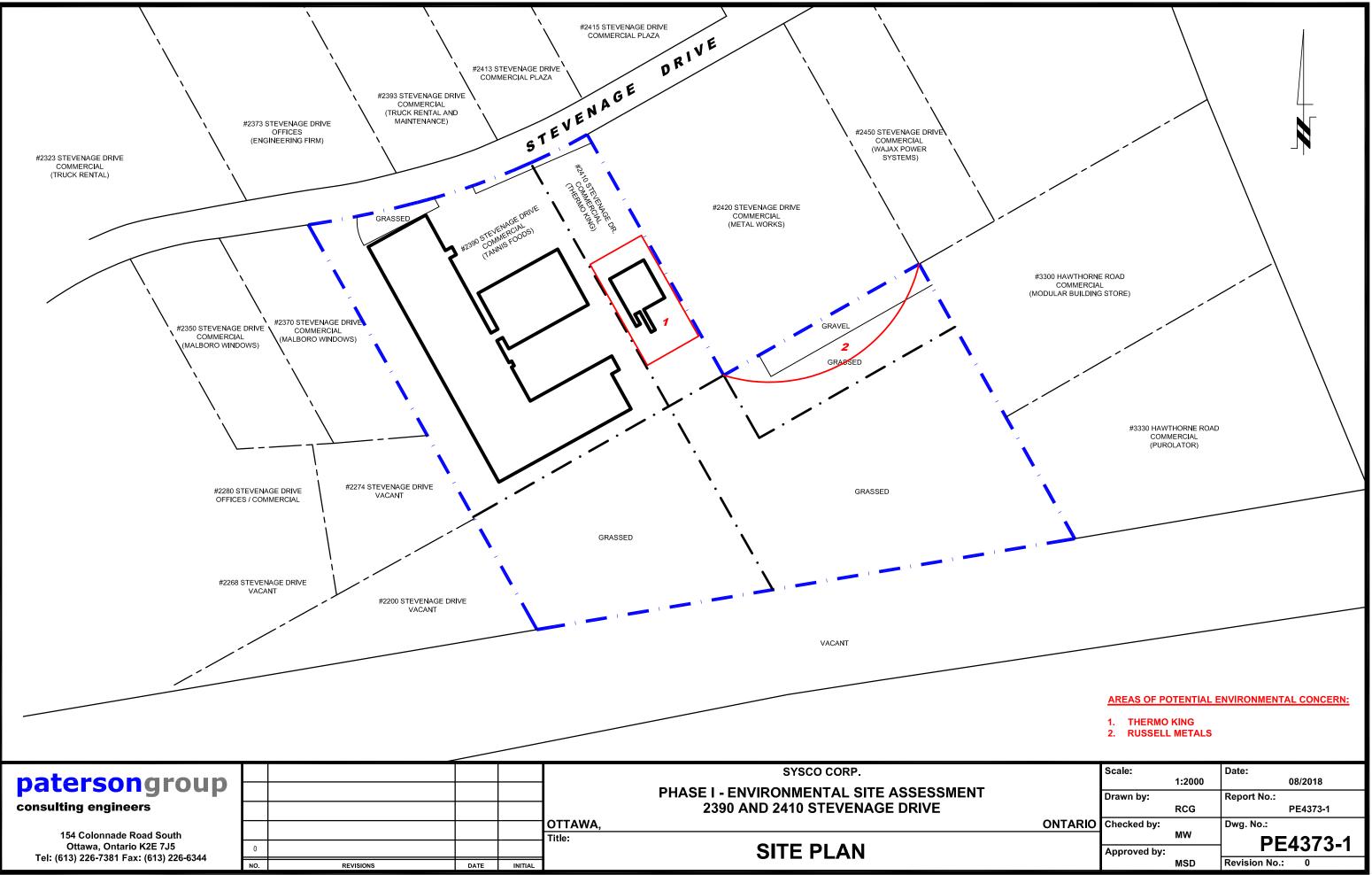
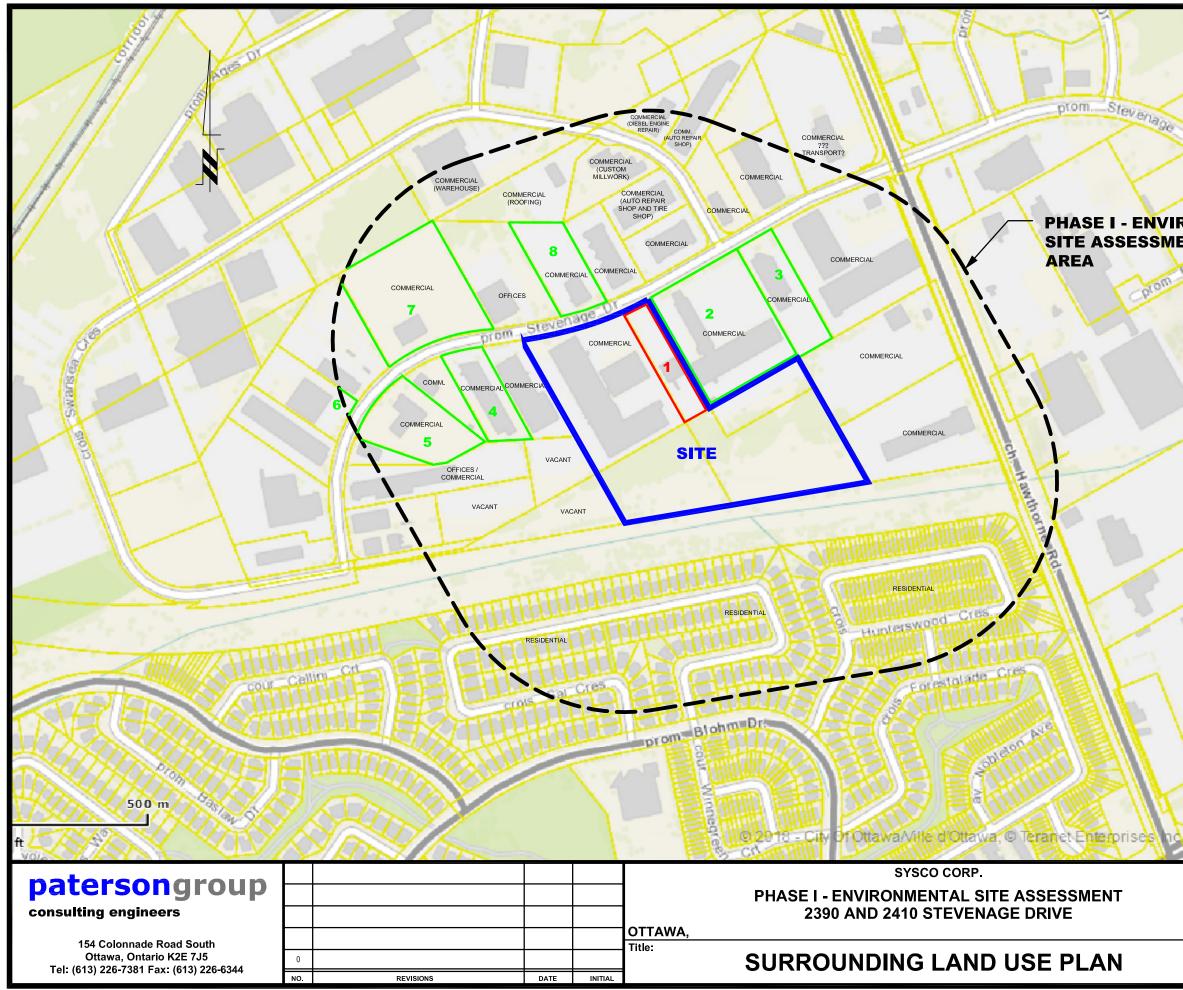


FIGURE 2 TOPOGRAPHIC MAP

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		MSD	Revision No.: 0



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	 2350 STEVENAGE DRIVE - FORMER AUTOMOTIVE REPAIR SHOP AND CHEMICAL SHOP 2320 STEVENAGE DRIVE - FORMERLY HARPER DETOIT DIESEL ENGINES 2295 STEVENAGE DRIVE - ALLIED PLASTICS 2323 STEVENAGE DRIVE - PENSKE TRUCK RENTAL 2390 STEVENAGE DRIVE - RYDER TRUCK RENTAL

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APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

SITE

AERIAL PHOTOGRAPH 1946

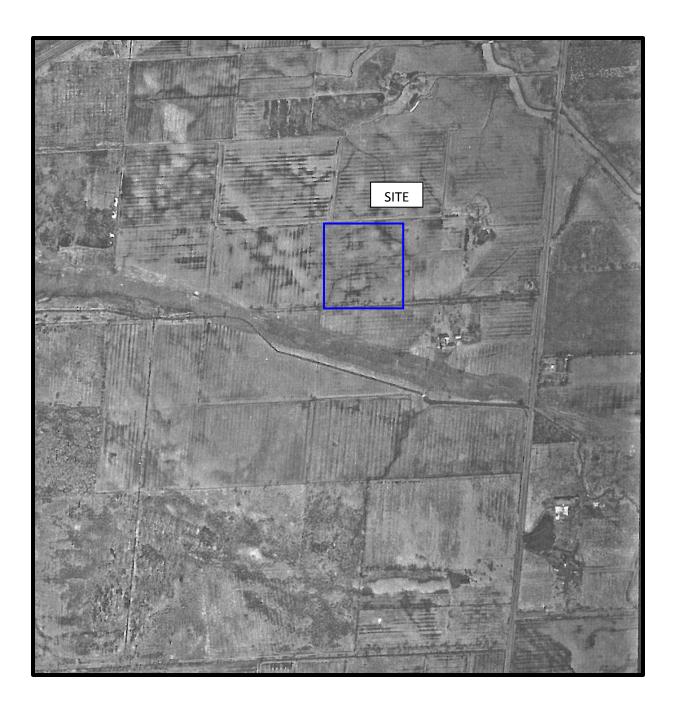
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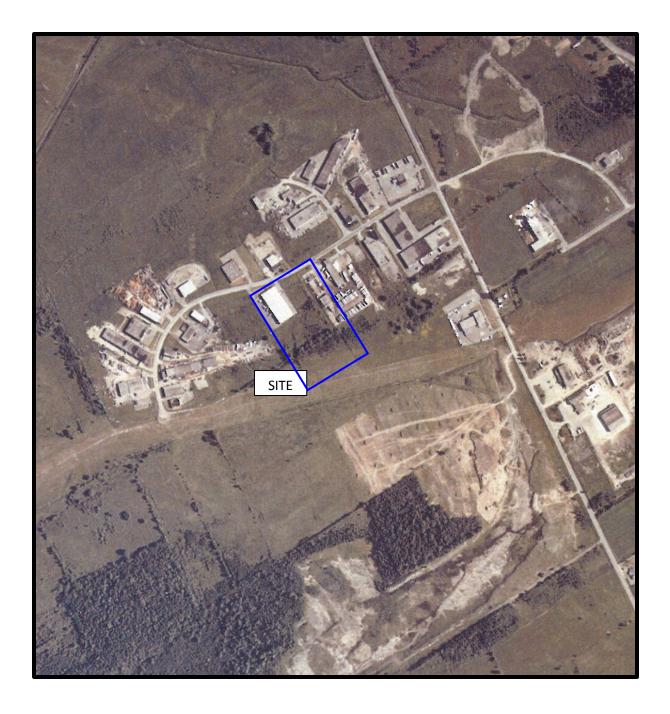
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AERIAL PHOTOGRAPH 1965

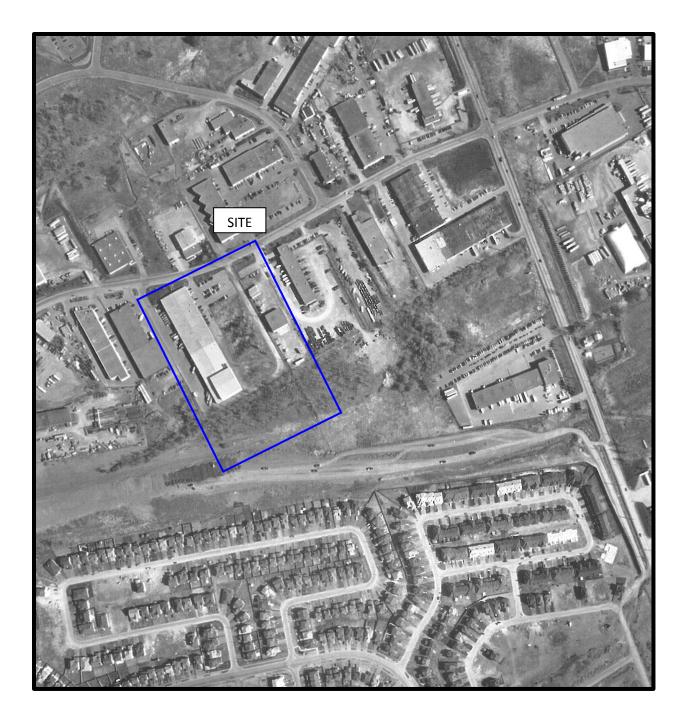




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AERIAL PHOTOGRAPH 2015



PE4373

2390 Stevenage Drive, Ottawa, ON

August 8, 2018



Photograph 1: Above ground used oil storage tank inside the Thermo King service bay.



Photograph 2: View of waste collection bins at the south of the Thermo King subject property.

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PE4373

2390 Stevenage Drive, Ottawa, ON

August 8, 2018



Photograph 3: View of the interior catch basins of the Thermo King service bay.



Photograph 4: View of the west facing façade of the Thermo King subject building. Air condition serves the office area and the vent pipes are presumed to serve the service bay catch basins.

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2390 Stevenage Drive, Ottawa, ON

August 8, 2018



Photograph 5: View of the pole-mounted transformer to the west of the Thermo King subject property.



Photograph 6: View of the western loading bay of the Tannis subject building. Also depicted is the garbage compactor and the waste collection bins.

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PE4373

2390 Stevenage Drive, Ottawa, ON

August 8, 2018



Photograph 6: View of the above ground transformer situated to the north west of the tennis subject building. This transformer was noted to be on the neighboring property.



Photograph 8: View of the compressors serving the refrigeration and freezer units of the Tannis subject building.

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APPENDIX 2

MOECC FREEDOM OF INFORMATION RESPONSE

CITY OF OTTAWA HLUI SEARCH RESULTS

TSSA CORRESPONDENCE

MOECC WELL RECORDS



Freedom of Information Request

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

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	.oN teaur	FUIRed			Mandy Witteman	
Date Request Received					Name, Company Name, Mailing Address and	
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Desticides - licenses A \$5.00 non-retundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

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Consulting Engineers

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

Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science Archaeological Services

www.patersongroup.ca

July 24, 2018 File: PE4373-HLUI

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

> Authorization Letter, HLUI Search Phase I-Environmental Site Assessment 2390 Stevenage Drive Ottawa, Ontario

Dear Sir or Madame,

Subject:

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

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

Name of Company/Property Owner:

Name of Representative

Authorization of Representative

Date

President

Mandy Witteman

From:Public Information Services <publicinformationservices@tssa.org>Sent:July-09-18 4:05 PMTo:Mandy WittemanSubject:RE: Records Search Request PE4373

Records Found

Hello,

Thank you for your request for confirmation of public information.

• We confirm that there are **fuel storage tanks records** in our database at the subject address(es) noted below.

Inst Number	Context	Address	City	Province	Postal Code
9299002	FS PRIVATE FUEL OUTLET - SELF SERVE	2420 STEVENAGE DR	OTTAWA	ON	K1G 3W3
9893311	FS PROPANE REFILL CNTR - CYLR FILL	2330 STEVENAGE DR	OTTAWA	ON	K1G 3W3
11428712	FS PROPANE TANK	2330 STEVENAGE DR	OTTAWA	ON	K1G 3W3
10907555	FS LIQUID FUEL TANK	2420 STEVENAGE DR	OTTAWA	ON	K1G 3W3

For copies of documents, please complete the Release of Public Information form, found at <u>https://www.tssa.org/en/about-tssa/resources/Release-of-Records-form--Jan-2018Final.pdf</u> and email the completed form to <u>publicinformationservices@tssa.org</u> or through mail along with the appropriate fee. TSSA's fee schedule can be found at: <u>https://www.tssa.org/en/about-tssa/resources/Documents/Public-Information-Fee-Schedule_Jan_2018.pdf</u>. Fees are payable with a credit card (Visa or MasterCard) or by a cheque made payable to TSSA.

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

Kind regards,

Connie

From: Mandy Witteman <MWitteman@Patersongroup.ca> Sent: July 9, 2018 2:07 PM To: Public Information Services <publicinformationservices@tssa.org> Subject: Records Search Request PE4373

Good Afternoon,

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

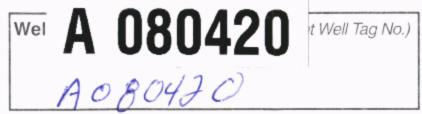
Stevenage Dr #: 2390, 2350, 2370, 2330, 2410, 2420, 2373, 2393, 2413, 2415

Thank you very much.

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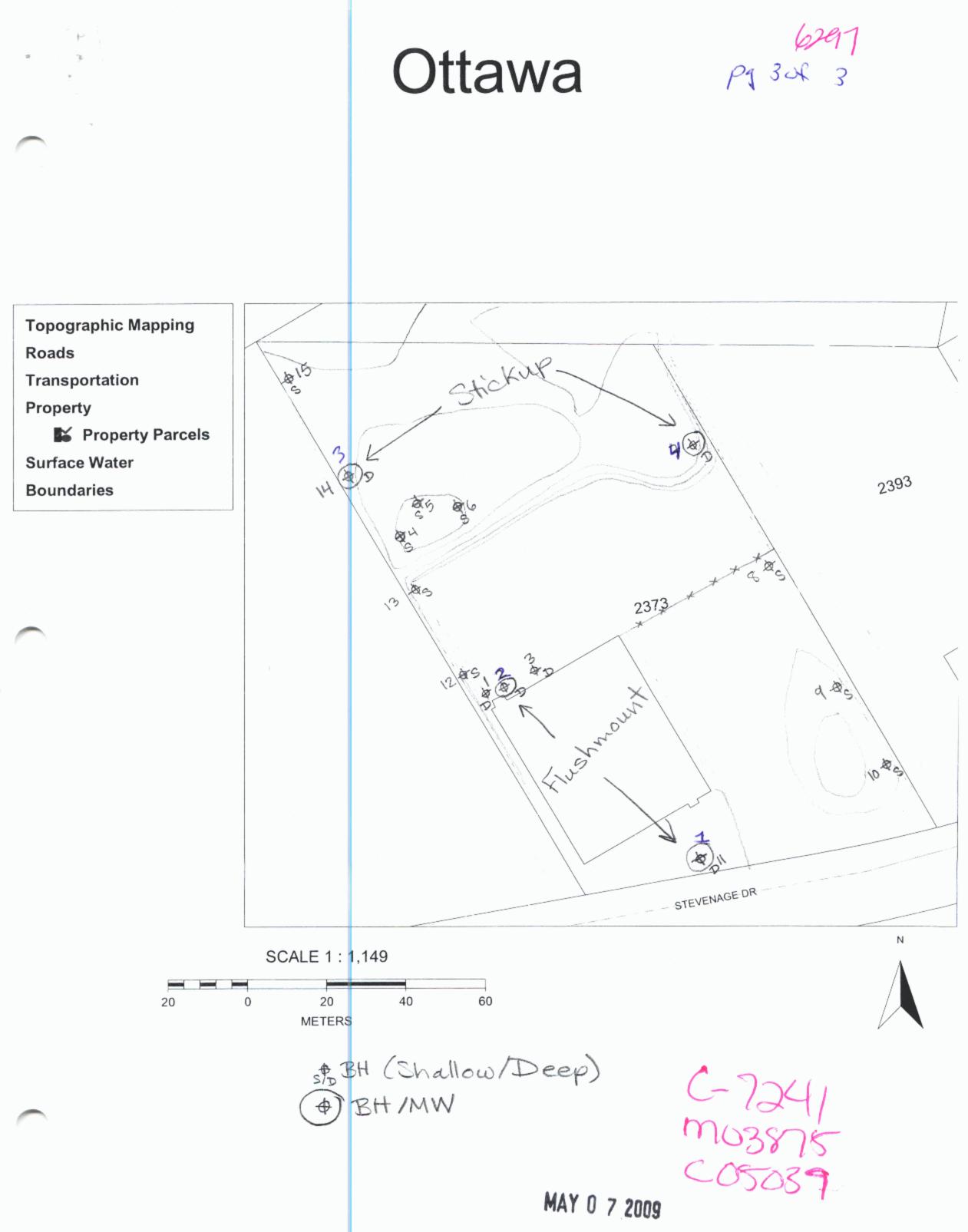
	40804	70		297 Page _2 of _3
Property Owner's Information				С
First Name Last Name	Mailing Addr	ress (Street No./Name, RR)	Municipality OTTAWA	P
Province ON Fostal Code Contraction Contraction Contraction Code Contraction Co	E-mail Address	STEVE THE FOR	Telephone No. (inc. area code) $\begin{pmatrix} 1 & 3 & 7 & 3 & 7 & 2 & 0 \\ 1 & 3 & 7 & 7 & 7 & 7 & 0 \\ 1 & 3 & 7 & 7 & 7 & 7 & 7 \\ 1 & 3 & 7 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 5 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 & 7 \\ 1 & 7 & 7 $	
ON KIG201 Cluster Well Information			61777200	c
Address of Well Location (Street Number/Name, RR)	Lot Concession To	ownship	County/District/Municipality	upon request Signature of Technician/Contractor Date (yyyy/mm/dd)
City/Town/Village Province Postal Co Ontario	ode GPS Unit Make M	Nodel Unit Mode of Oper		
Well # UTM Coordinates Full Depth of Hole (metres) Hole D on Sketch Zone Easting Northing Hole (metres) (c	Diameter Method of Casing Material cm) Construction	Casing Length Screen Interval (metres (metres) From To) Annular Space Static Water Abandonment Sealant Used Level (metres) Sealant Used	Comments Date of Completion (yyyy/mm/dd)
2 184523295025432 4.57 200	32 H.S. AUGER PUC	1.5 1.5 4.57	BENTOMITE	09/04/13
3 184522885025480 4.57 20.		1.5 1.5 4.57	FENTOWITE.	09/04/13
4 184523735025496 4.57 20.	37 H.S. AUGER PUC	1.5 1.5 4.57	BESTONITE	03/04/1
Well Contractor and Well Technician Information				Date 1st Well in Cluster Constructed Date Last Well in Cluster Constructed (yyyy/mm/dd) 09 09 09 09 09 09
Business Name of Well Contractor Strata Soil Sampling Inc.	Business Address (Street Number/Na 147-2 West Beaver Cro		mond Hill Ontario	Ministry Use Only
Postal Code Business Telephone No. (inc. area code) IJ4B 1Q6 905+764-9304	Well Contractor's Licence No. Bus	siness E-mail Address	rds@stratasoil.com	Date Received (vyyg/mm/dd) Date Inspected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)	Well Technician's Licence No. Dat	te Submitted (yyyymm/dd) Signatur 2001 04 28	of Technician	Audit No. c05039 Remarks 2006

Ministry's Copy

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

EP1756



http://apps104.ottawa.ca/ic_rowmaps/maps/local_ottawa_en.mwf

April 9, 2009 12:35 PM

Ontario Ministry of the Environment A111539 Auto Concert and/or Print Below) Regulation 903 Ontario Water Reso	
Measurements recorded in: Metric Impe All 539 9485 Page 2	irces Act

Address of		on (Street Num)		ne) Ro		Township		oncessio	ssion			
County/Dis			0	1.0		City/Town/Village			Provinc		Postal	Code
UTM Coordi	instee 7one	Easting		Northing		Offaula Municipal Plan and Sub	ot Number		Onta	rio		
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Statistics of the local division of the loca		drock Material	Is/Abar	ndonment	Sealing Rec	ord (see instructions on th	and the second s				Den	th (<i>m/ft</i>)
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D	·31			and Type)	mount	(m³/ft³)	Clear and sand fr	ee	Time (min)	Water Lev (m/ft)	(min)	Water Level (m/lt)
21				TIUS	mount		If pumping discontinue	d, give reason:	Static Level			
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3.66	7.01	San	d				Pump intake set at (n	v/ft)	2	and the second	2	and the
							Pumping rate (l/min / 0	GPM)	3		3	
Meth Cable To		Diamond	-	Public	Well U				4		4	
Rotary (C	Conventional) Jetting		Domestic	Nunic	ipal Dewatering	Duration of pumping hrs + n	nin	5		5	
Rotary (F	Reverse)	Driving		Livestock Irrigation	Test H	lole Monitoring g & Air Conditioning	Final water level end of	and the second	10		10	10.357
Air percu		rect Push		Industrial Other, spec	sify				15		15	
		nstruction Re				Status of Well] If flowing give rate (Vn	nin / GPM)			20	
Inside Diameter	Open Hol	e OR Material ed, Fibreglass,	Wall	0	epth (m/it)	Water Supply	Recommended pump	depth (m/ft)	20			
(cm/in)		Plastic, Steel)	(cm/in)	Eren		Replacement Well	Recommended pump	rate	25		25	
4.03	PUL	4	368	0	3.96	Recharge Well	(Vmin / GPM)		30		30	
	1111					Observation and/or Monitoring Hole	Well production (Vmin	/ GPM)	40		40	
	1.5. 1. 1.				See Startes	Alteration	Disinfected?		50		50	
						(Construction)	Yes No		60		60	
O dalida	C	onstruction Re	cord - S	Longe Long		Abandoned, Poor	Please provide a map	Map of W			hack	
Outside Diameter (cm/in)		aterial Ivanized, Steel)	Slot No		Depth (<i>m/ft</i>)	Water Quality Abandoned, other,		tevenage			DOUR.	LY
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And and a second design of the	the second se	Other, spec		h []]Linta	sted O	To (cm/in) 7.01 8.25	K 24	50		5		
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(11	_	Other, spec	-	lell Techn	ician Inform	ation	106	1300	n	-	-7	
Business N		I Contractor	and V	on reciti	the second s	Vell Contractor's Licence No.	11			1		
Stra Business A	ddress (Str	eet Number/Nam	ne) lic	9		1 2 4 1 Aunicipality	Comments:	V-+	*	1		t
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Province	P	ostal Code	Busin	ess E-mail	Address			ackage Deliver	ed T	Mini	stry Us	e Oply
Bus.Telepho	one No. (inc.	area code) Nar	me of W	ell Technic	ian (Last Name	atasoil.com e, First Name)	information package			Audit No.	1.5.15.5.10	14233.644
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Address of Well Lo 2450 County/District/Mu	cation (Street Number/N Stevena.ge nicipality	Rd	Township City/Town/Village		Lot	Province	sion Postal (Code
the second s		Northing				Ontario Other		111
Overburden and General Colour	Bedrock Materials/Ab Most Common Ma		ocord (see instructions or Other Materials		eneral Descripti		Dept	h (<i>m√ft</i>)
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	7.01	Jun	e				Pump intake set at (m/ft)	2		2	
Met	hod of Cor	struction			Well Use	e	Pumping rate (Vmin / GPM)	3		3	
Cable To	ool	Diamond		Public	Commen	cial 🗌 Not used	Duration of pumping	4		4	
Rotary (Conventional) Reverse)	Driving		Domestic Livestock	Municipa Test Hold	e Monitoring	hrs + min	5		5	
Boring	ussion	Digging		Irrigation Industrial	Cooling a	& Air Conditioning	Final water level end of pumping (m/ft)	10		10	1. 194.24
Other, s	pecify Dir	ect Push	<u> </u>	Other, specify			If flowing give rate (Vmin / GPM)	15		15	
Inside	-	OR Material	Wall		n (<i>m/ft</i>)	Status of Well Water Supply	Recommended pump depth (m/ft)	20		20	
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4.03	PUL		,368	0	3.96	Recharge Well Øewatering Well	Recommended pump rate (Vmin / GPM)	30		30	
						Observation and/or	Well production (I/min / GPM)	40		40	
		224.8.8.8			1997	Monitoring Hole		50		50	
						(Construction)	Disinfected? Yes No	60		60	
12 23 23	Co	onstruction Re	cord - S	creen	AREAT	Abandoned, Poor	Map of W		and the second se		
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Province	io L	ostal Code	6 6	ess E-mail Add	s Ost	ratasoil.com	Well owner's Date Package Delivere	be		try Us	e Only
Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)							delivered V Y Y M M	00	Audit No. z 1	26	346
Well Technik	cian's Licence	No. Signature	of Techn	ician and/or Co			No 2011014	12		0 -	2055
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Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 9 0 5 76 4 9 3 6 4 Beatty Brian Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 3 6 1 6 No 2018 0 8 0 7 No 2011 0 0 8 0 9 Received 2 3 2011 No 2018 0 8 0 7 No 2011 0 0 8 0 9 Received 2 3 2011	~ ~ ~	ton	1.110	1 . (1 -	strate	seile.	Well owner's Date Package Deli	vered	Mini	stry Us	e Only
Yell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Yell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Yell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Yell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Yell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted No 20180808			· ·		Well Technic	ian (Last Nam	ne, First Name)	5011.Con	information	1.		0.4	074
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Page of 3

Regulation 903 Ontario Water Resources Act 389

Ontario	Ministry of the Environ
Measurements recorded	in: Metric

	Il Location (Street Numbe		To	ownship	Lot	Concess	sion	
2450 ounty/District	Stevenage Municipality	drive	Ci	ity/Town/Village		Province	Postal	Code
OHAWA	n-Carleton.	. Northing		Ottawa unicipal Plan and Suble	vt Number	Ontario		
	3 L 8 4 5 2 7 4			unicipal Plan and ousic	A Humber	outor		
	and Bedrock Materials/			d (see instructions on the			Dent	h (ħy/ft)
eneral Color	ur Most Common	Material	Othe	er Materials	General Description		From	То
					asphilt	1	0	.31
				and the second sec	20% Bentonite U	root	.31	6:1
<u>.</u>								
		Annular Space	*****		Results of W	ell Vield Testi	na	
Depth Set a	t (<i>m/ft</i>) Ty	be of Sealant Used		Volume Placed	After test of well yield, water was:	Draw Dow	n Re	ecovery
From		aterial and Type)		(m³/ft³)	Clear and sand free	Time Water L (min) (m/f		Water Le (m/ft)
	88 Bense	Slurry			If pumping discontinued, give reason:	Static		Eres Fr
83 6	.71 Grout	Slurry				1	1	
					Pump intake set at (m/ft)	2	2	
					Pumping rate (Vmin / GPM)	3	3	
Method Cable Tool	d of Construction	Public	Well Us			4	4	
Rotary (Con	ventional)	Domestic	Municipa	al Dewatering	Duration of pumping hrs + min	5	5	
Rotary (Rev Boring	rerse) Driving	Livestock	Cooling	e Monitoring & Air Conditioning	Final water level end of pumping (m/h)	10000	10	
Air percussi Other, spec	on	Industrial Other, specify						
Jourier, apoc	Construction Reco			Status of Well	If flowing give rate (I/min / GPM)	15	15	
	Open Hole OR Material		(<i>m/lt</i>)	Water Supply	Recommended pump depth (m/ft)	20	20	
		(cm/in) From	То	Replacement Well	Recommended pump rate	25	25	
				Recharge Well Dewatering Well	(I/min / GPM)	30	30	
				Observation and/or Monitoring Hole	Well production (I/min / GPM)	40	40	
				Alteration	Disinfected?	50	50	
				(Construction)	Yes No	60	60	
Outride	Construction Reco		num	Abandoned, Poor	Map of W Please provide a map below following	ell Location	the besk	
Outside Diameter (cm/in) (F	Material Plastic, Galvanized, Steel)	Slot No. From	(<i>m/ft</i>)	Water Quality Abandoned, other,	Please provide a map below following	Instructions on	ле раск.	
Contrainty				tof Kle.	steve	nage	er.	
				Other, specify	X			
	Water Detail	-	н	ole Diameter	× #24	50		
ater found a	at Depth Kind of Water:			th (m/tt) Diameter	X X	0		
	Gas Other, specify at Depth Kind of Water:	the second s	0	·31 20.32	XT			
	Gas Other, specify		-31	1 I.	JX 31m			
	at Depth Kind of Water:		- >1	6.71 4.82	A SX .			
(mvn)	Gas Other, specify	nd Well Technicia	n Informat	tion	Xud			
usiness Nam	e of Well Contractor	0	We	Il Contractor's Licence No.	X -m-m-			1
Usiness Add	ta Soll ress (Street Number/Name	Damplin	9	nicipality	Comments:			
47-20	west Bear	ver creek	2 Rd T	Richmond Hill				
rovince	Postal Code	Business E-mail Add	Iress		Well owner's Date Package Deliver	ed M	inistry Use	Oply
us.Telephone	No. (inc. area code) Name	of Well Technician (I	ast Name,	First Name)	information	Audit N	10.	
1057	649304	Beatt	Br	ian	delivered VYYMM Date Work Completed	the second se	131	970
3 6	's Licence No. Signature of	equician and/or Co	ntractor Da		NO 201108	04 Baral	UG 2 3	2011
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Contario Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Reco						~ 1	
				nent			
Measurements recorded in: Metric Imperial ANTO B897 Page 3 of	of <u>3</u>	8897 Page 3 c	A111540	🗌 Imperial	: Metric	Measurements recorded in:	

Address of Well Location (Street N		То	wnship	Lot	Concess	ion	
2450 Stevenage County/District/Municipality	daire.	Ci	ty/Town/Village		Province	Postal	Code
Ottawa - Carle	ton		Ottawa		Ontario	11	111
UTM Coordinates Zone Easting	Northing		unicipal Plan and Sublo	t Number	Other		
NAD 8 3 18452 Overburden and Bedrock Mate		5416 Sealing Recor	d (see instructions on the	back of this form)			1.000
	mon Material	and the stand of the	r Materials	General Description	1	Dept	O'TO To
				asphilt		0	0.31
				20% Bentonite	Good	0.31	7.01
				our benini	0000	-1	
	Annular Space			Reculte of W	ell Yield Testi	20	
Depth Set at (m/ft)	Type of Sealant Us		Volume Placed	After test of well yield, water was:	Draw Down	n Re	ecovery
From To	(Material and Type)	1	(m³/ft³)	Clear and sand free Other, specify	Time Water L (min) (m/ft		Water Level (m/稅)
0 1.83 Ber	scal			If pumping discontinued, give reason:	Static		
1.83 7.01 Gro	scal ut slurg				Level	1	
	· · ·			Pump intake set at (m/ft)			-
					2	2	
Method of Construction	and Contractor	Weli Use	e	Pumping rate (I/min / GPM)	3	3	
Cable Tool Diamo		Commer		Duration of pumping	4	4	
Rotary (Conventional) Jetting Rotary (Reverse) Driving	Domestic Livestock	Municipa Test Hole		hrs +min	5	5	
Boring Diggin		Cooling a	& Air Conditioning	Final water level end of pumping (m/lt)	10	10	
Air percussion Other, specify	Industrial	cify		If flowing give rate (I/min / GPM)	15	15	
Construction	Record - Casing	111111111111	Status of Well	In norming give rate (whimin or my	20	20	
Inside Open Hole OR Material (Galvanized, Fibreglass,	VVall D Thickness	Depth (m/ft)	Water Supply Replacement Well	Recommended pump depth (m/ft)			
(cm/in) Concrete, Plastic, Steel)	(cm/in) From	m To	Test Hole	Recommended pump rate	25	25	
			Recharge Well Dewatering Well	(Vmin / GPM)	30	30	
			Observation and/or	Well production (Vmin / GPM)	40	40	
			Monitoring Hole	Disinfected?	50	50	
			(Construction)	Yes No	60	60	
Construction	Record - Screen	an an an	Insufficient Supply Abandoned, Poor		ell Location		
Outside Diameter (Plastic, Galvanized, Stee	Slot No.	Depth (m/ft)	Water Quality Abandoned, other,	Please provide a map below following	g instructions on t	he back.	
(cm/in) (induite; ediverneed, edec		m To	Tspecify test Hale		venage	dri	-11
			Other, specify	TTE			N
				5450			-1
Water D Water found at Depth Kind of Wa	and the second se		ole Diameter h (m/tt) Diameter			T /1	
(m/ft) Gas Other, s	\sim	From	To (min)	h_	1 0	1 m	
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(m/ft) Gas Other, s Water found at Depth Kind of Wa		sted . 31	7.01 4.82		IW	1	
(m/ft) Gas Other, s							
	tor and Well Techn						
Business Name of Well Contractor Strata Soi	Samo		I Contractor's Licence No.				
Business Address (Street Number/	Name)		nicipality	Comments:			
197-2 west Bc	aver creek	Rd Kin	chmond Hill				
Province Postal Code	Business E-mail		atasoil.com	Well owner's Date Package Deliver	ed Mi	nistry Use	Only
Bus. Telephone No. (inc. area code)	ame of Well Technic	ian (Last Name, I	First Name)	and the second	Audit No	D.	
9057649304	'Beatt	Brid	an	delivered Date Work Completed		131	973
Well Technician's Licence No. Signatu	re of Technician and/o		e Submitted	No HOLLOS	04 Receive	3 201	
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Measuren	nents recorded in	the Environment a: Metric 🗆 Im	Tag#; /	A126599	A126599	Regulatio	n 903 Ontario Pi	Water Res	
	/ner's Informa	tion						- ⁹⁻	
First Name	9	Last Name / Or TANN	•	DISTRI BUTON	E-mail Address				Constructed ell Owner
Mailing Ad	Idress (Street Nun	nber/Name)	N	DISTRI BYTON Aunicipality		Postal Code		one No. (inc.	
Well Loc	<u>スろへの</u> ation	STÊVENA6E	DRIVE	<u>ottawa</u>	ONTARIO	K163	<u> </u>		
		reet Number/Name)		ownship		Lot	Conces	ssion	
County/Dis	Strict/Municipality	NAGE DRI	C	ity/Town/Village			Province	Postal	Code
UTM Coord	dinates Zone Ea	sting Nort	hing N	OTAWA Iunicipal Plan and Sub	lot Number		Ontario Other		
		5246850	25387	rd (see instructions on th			(1996) and (1996) and (1996)		nandari katalari a
General C		st Common Material		ru <i>(see instructions on tr</i> er Materials	T	al Descriptior	1	Dep From	th (<i>m/ft)</i>
Ban	- Sax	1	Grave	/	Loose			0	.91
BRN	- Cla	ť	Sand	/	hard			.91	3.96
GRY	Clay	~	· ·					3.96	4.57
614	Clay							4.57	5.79
	·.								
		an a combina de la combina A de la combina de la combin							
	et at (<i>m/ft</i>)	Annular S Type of Seala	nt Used	Volume Placed	After test of well yield, w		ell Yield Test	/n R	ecovery
From	To	(Material and		(m³/ft³)	Clear and sand fr	ee	Time Water (min) (m/		Water Level (m/ft)
31		nacrek / P	hist maint		If pumping discontinue	d, give reason:	Static Level		
2.13	5.79 5	Benseal					1	1	
		<u>a a c</u>			Pump intake set at (m	h/ft)	2	2	
Met	hod of Constru	ction	Well Us	9	Pumping rate (I/min / C	ЭРМ)	3	3	
Cable To Rotary (9		Diamond Diamond Diamond Diamond Diamond Diamond			Duration of pumping		4	4	
🗌 Rotary (I 🗌 Boring		Driving Digging Irrigat		e - Monitoring & Air Conditioning	Final water level end of	in pumping (m/it)	5	5 10	
Air percu	pecify direct			-	If fouring give gate (//-	- (0010)	15	15	
	Construe	ction Record - Casin		Status of Well	If flowing give rate (I/m		20	20	
Inside Diameter <i>(cm/in</i>)	Open Hole OR M (Galvanized, Fibr Concrete, Plastic,	ealass. Thickness	Depth (<i>m/ft)</i> From To	Water Supply	Recommended pump	depth (m/ft)	25	25	
5.20	D1/	.390	0 2.74	Test Hole	Recommended pump (I/min / GPM)	rate	30	30	
<u></u>	pr c			Dewatering Well Observation and/or	Well production (I/min	/ GPM)	40	40	
	-			Monitoring Hole	Disinfected?		50	50	
				(Construction)	Disinfected?		60	60	
Outside		ction Record - Screen	t Depth (<i>m/ft</i>)	Insufficient Supply Abandoned, Poor Water Quality	Please provide a map I		ell Location	he back	^
Diameter (cm/in)	Material (Plastic, Galvanize		From To	Abandoned, other, specify					<u>s</u>
6.03	PUC	10 .	2.74 5.79	 Other, <i>specify</i>		Prive	43		N
					j j -		- Day		
Water four		t er Details of Water: Fresh		ole Diameter	2 5 41 0				
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	lame of Well Contr ແ Soil Si	h	Well	1 Contractor's Licence No.	∥ ~				
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	Dine No. (inc. area co	116 Wrec	ords@Strata	Ison I. Com	information	ickage Delivere	d M. Audit N	inistry Use _{o.}	Only
1910 151-	764 930	14 Beath	2 Brian	·	package Y Y delivered Date W	Y Y M M ork Completed			7125
Well Technic	ian's Licence No. Si	gnature of Technician a	and/or Contractor Date	> Submitted 01112031619			1 6 Redea	X in :	26.12

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	nents recorded in						Silve bene menodola in	Page_	14	of <u>4</u>
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	and the second division of the second divisio	hber/Name)	-	BUTOR						Constructed
Mailing Ad	dress (Street Nun	nber/Name)	•	Municipality	Province	Postal Code		elephone N	No. (inc.	area code)
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		Materials/Abandonme			back of this form)				with and a start	
General C		st Common Material	1	her Materials		eral Description	1		Dep From	th (<i>m/ft)</i>
BRA	, San	al	Grand	1	Loose				0	.91
BRA			Sand		11 1				91	3.96
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	Notestanting to the state of the					and a second second			and the factories in the	s. Water Will Little Contracts
Depth S	et at (m/ft)	Annular Spac	CONTRACTOR OF THE OWNER	Volume Placed	After test of well yield,	Results of W water was:		V Down		ecovery
From	То	(Material and Typ		(m ³ /ft ³)	Clear and sand		Time V	Vater Level		Water Level
Ø	.31 /	encub / Flu	shmount		Other, specify		<i>(min)</i> Static	(m/ft)	(min)	(m/ft)
.31		Benseal			If pumping discontinu	ed, give reason:	Level		<u> </u>	
Bust	1. J.	Sensecer					1		1	
199	(Sand			Pump intake set at (m/ft)	2		2	
							3		3	
Met	hod of Constru	ction	Well U	Se	Pumping rate (I/min /	GPM)	[
Cable To		Diamond Diamond Diamond Diamond Diamond	Comm		Duration of pumping		4		4	
Rotary (I		Driving Livestock			hrs +	min	5		5	
Boring		Digging Irrigation	<u> </u>	g & Air Conditioning	Final water level end	of pumping <i>(m/it)</i>	10		10	
Air percu	pecify	Lindustrial			If flowing aire rate ("		15		15	
		ction Record - Casing		Status of Well	If flowing give rate (//	min / GPwy				
Inside	Open Hole OR M	laterial Wall	Depth (<i>m/ft</i>)	Water Supply	Recommended pum	p depth (m/ft)	20		20	
Diameter <i>(cm/in)</i>	(Galvanized, Fibr Concrete, Plastic	eglass, Thickness , Steel) <i>(cm/in)</i> Fro	om To	Replacement Well Test Hole			25		25	
5.20	DVC	390 0	> 3.1	Recharge Well	Recommended pum (I/min / GPM)	p rate	30		30	
				Dewatering Well			40		40	·
				Monitoring Hole	Well production (I/mi	n / GPM)				
				Alteration (Construction)	Disinfected?		50		50	
				Abandoned,	Yes No		60		60	**** * ***
	Constru	iction Record - Screen	l Maria	Insufficient Supply		Map of W				
Outside Diameter	Material (Plastic, Galvanize	Slot No.	Depth (<i>m/ft</i>)	Water Quality Abandoned, other,	Please provide a map	below following	instruction	ns on the b	ack.	$\hat{\Lambda}$
(cm/in)	(Flastic, Galvaluze		om To	specify	10H	7 @				l N
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Well Technic		I Beatty- ignature of Technician and	Drian or Contractor Da	ate Submitted	Date \	Work Completed		٤.	ie parastati s	
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/ell Owner's Information rst Name Last Name / O		<u>.</u>	E-mail Address				U Well (Constructed
ailing Address (Street Nymber/Name)	Distribu	Municipality	Province	Postal Code	[-	Felephone	-	ell Owner area code}
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verburden and Bedrock Materials/Abandon	iment Sealing Reco						Dan	th (<i>m/ft</i>)
eneral Colour Most Common Material	Oth	er Materials	Genera	al Description			From	<u> To</u>
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aly clay	Sand		hard				3.96	4.57
AY Nay			pare				1.57	5.79
Annular S	ipace		R	esults of We	ll Yield	d Testino	9	1 3////1619///1806
Depth Set at (<i>m/ft</i>) Type of Seala From To (Material and	ant Used	Volume Placed (m³/ft³)	After test of well yield, w	ater was:	Dra	w Down	R	ecovery Water Leve
0 .31 Concult Flo	ushman 1		Other, specify		(min) Static	(m/ft)	(min)	(m/ft)
31 2.13 Benseal			If pumping discontinued	, give reason:	Level			
7.13 5.79 Sand			Pump intake set at (m	(ft)	1		2	
					3		3	
Method of Construction	Well Us	12. With the party of the AM Provide Lands of Management	Pumping rate (I/min / G	PM)	4		4	
Rotary (Conventional) Diational Domain Conventional Diational Diatio	estic 🗌 Municipa	al Dewatering	Duration of pumping hrs + mi	n	5		5	
Boring 🗌 Digging 🗍 Irriga	tion Cooling	& Air Conditioning	Final water level end of		10		10	
Air percussion Indus Other, specify Jirecf huk Othe	strial r, specify		If flowing give rate (I/m	n / GPM)	15		15	
Construction Record - Casir Inside Open Hote OR Material Wall	ng Depth (<i>m/ft</i>)	Status of Well	Recommended pump	dopth (m/ft)	20		20	
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in)	From To	Replacement Well Fest Hole	Recommended pump	deput (<i>mm</i>)	25		25	
20 PUC 390	0 2.74	Recharge Well	Recommended pump (I/min / GPM)	rate	30		30	
		Dewatering Well Deservation and/or Manifectors Idels	Well production (I/min /	GPM)	40		40	
		Monitoring Hole	Disinfected?		50		50	
		 (Construction) Abandoned, Insufficient Supply 	Yes No		60	***	60	
Construction Record - Screen Outside Material Outside	n Depth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a map b	Map of We			back.	$\overline{\Lambda}$
Diameter (cmvin) (Plastic, Galvanized, Steel) Slot No.	From To	Abandoned, other,	11	60 m		X	3	N
03 PUC 10	2.74 5.79	Other, specify	0	riveway	····	2		
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ater found at Depth Kind of Water: Fresh ((m/ft) Gas Other, specify			3	239	0			l
ater found at Depth Kind of Water: Fresh (<i>m/ft</i>) Gas Other, <i>specify</i>	Untested		Stered	1				
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11=7	Clay				Suff			4	57	5.79

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Depth Set a	at (m/ff)	Annular Spac	1	Volume Placed	After test of well yield,	Results of We		Testing w Down	T R	ecoverv
From	То	(Material and Typ	e)	(m³/ft³)	Clear and sand f		Time	Nater Level	Ťime	Water Level
0 .	31 Con	use / F/w	shmeant		Other, specify	d aive reason:	(<i>min</i>) Static	(m/ft)	(min)	(m/ft)
31 2	n	nstal			in partipling aboontinae	a, give reason,	Level			
.13 3	5.79 50	and			Pump intake set at (n	a/#)	1		1	
					T unp make set at (/	wity	2		2	
Metho	d of Construction	n	Well Us	e	Pumping rate (I/min /	GPM)	3		3	
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Rotary (Cor Rotary (Rev	,	•		0		nin	5		5	
Boring Air percuss	Diggi	ng 🗌 Irrigation		& Air Conditioning	Final water level end o	f pumping <i>(m/it)</i>	10		10	
Other, spec	city diat Pus	✓ □ Other, sp			If flowing give rate (I/r	nín / GPM)	15		15	
		Record - Casing		Status of Well			20		20	
Inside Diameter	Open Hole OR Materia (Galvanized, Fibreglass Concrete, Piastic, Stee		Depth (<i>m/ft)</i> om To	Water Supply	Recommended pump	o depth (m/ft)	25		25	
	_			Test Hole	Recommended pump	rate	30		30	
20	PVC	.390 0	2.74	Recharge Well Dewatering Well	(I/min / GPM)					
				Observation and/or Monitoring Hole	Well production (I/min	/ GPM)	40		40	
				Alteration (Construction)	Disinfected?		50		50	
				Abandoned,	Yes No		60		60	
Dutside		TELE THE COMPANY AND THE PERSON AND A	D	Abandoned, Poor	Please provide a map	Map of We			nok	•
	Material Plastic, Galvanized, Ste	Slot No.	Depth (<i>m/ft)</i> om To	Water Quality Abandoned, other,	Flease provide a map	below following	Istucio	is on the D	ACK.	Ñ
03	PUL		74 5.79	specify	11					
0)	<i>v</i> –	10 01	7 5-17	Other, specify	11 Drive	Lieber				
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ater found a	Water I at Depth Kind of Wa	Details ater:		ole Diameter h (m/ft) Diameter	IL T			7)	
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fratu siness Addr 17-5	2 W. Bea	ver creek	1 V	ichmondhill						
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Measu

(m/ft) Gas Other, specify

(m/ft) Gas Other, specify

Business Name of Well Contractor

Business Address (Street Number/Name)

Province Ontario L4B 1C6

Well Technician's Licence No. Signature of Technic 3 6 1 6

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Water found at Depth Kind of Water: Fresh Untested

Strata Soil Sampling Inc.

147-2 West Beaver Creek Road

l

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 905-764-9804 Beatty Brian

2.74 1 1 1 2.74 1 1 1 2 2 2 Method of Construction Well Use Pump intake set at (m/ft) 2 2 Cable Tool Diamond Public Commercial Not used Rotary (Conventional) Jetting Domestic Municipal Dewatering Rotary (Reverse) Driving Livestock Xest Hole Monitoring hrs +min 5 5		f Well Location (Street N		>		ownship			Lot		Concess	ion	,
Annotar Space Municipal Plan and Subici Number Other Overburden and Buden Subici Number Other Materials Dearth of the State S	2410	Stevenge	$\mathcal{D}r$			-	-16						
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2.74 0.1 Sand 1	.31	2.74 Bei	nseal	1					, 0				
Method of Construction Well Use Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Division Digging Livestock Method of Construction Record - Casing Status of Well Mathema Supply Divestor Inside Open Hole OR Material Other Aspective Material Inside Open Hole OR Material Construction Record - Casing Status of Well Construction Record - Casing Perplay (m/til) Material Depth (m/til) Construction Record - Screen Perplay (m/til) Outside Status of Well Obsender Generation (Gravinized, Steel) Outside Status of Well Open Hole OR Material Other, specify Construction Record - Screen Depth (m/til) Outside Material Outside Stol No. From To Plass f.: Construction Record - Screen Outside Stol No. From To Construction Record - Screen Depth (m/til)	270		1							1		· · 1	a strange of the
Method of Construction Well Use Cable Tool Diamond Public Conmercial Not used Rotary (Conventional) Datestic Municipal Dewatering Rotary (Converse) Driving Livestock Test Hole Monitoring Boring Diging Irrigation Cocling & Air Conditioning Into the first + min 5 5 Material Water Reverse) Ditners, specify Ditners, specify It flowing give rate (l/min / GPM) 10 10 Inside Open Hole OR Material Water Open Hole OR Material Water Peeth Hole Recommended pump depth (m/tl) 20 20 S. 20 Plosisc Steel Thickness Troin min Generation and/or Recommended pump rate (min / GPM) 30 30 S. 20 Plosisc Construction Record - Screen Depth (m/tl) Recharge Well Recommended pump rate (min / GPM) 40 40 Obstrict Construction Record - Screen Depth (m/tl) Debendion, during of the specify 50 50 Outside Material Siot No. Depth (m/tl) Debendion, during of the specify 60 60 Insufficient	<u></u>	G. Sun	U			-		Pump intake set at (m/	(ft)	2		2	
Wethou of Construction Well USe Cable Tool Diamond Public Construction Public Diamond Not used Rotary (Reverse) Driving Livestock Diget Hole Monitoring hrs +	realized million of the Advancement							Pumping rate (//min / G	PM)	3		3	
Conventional Database Continuedal Overational	10 Y 100 Y			and the state of						4			
Rotary (Reverse) Driving Livestock Yest Hole Monitoring Boring Digging Industrial Construction Record - Casing Industrial Mather, sprecify Difference Monitoring Industrial Industrial Inside Open Hole OR Material Wall Depth (m/tl) Reparement Well Jameter (cm/tn) Gavancize, Fixed, Steel) Yest Hole Recharge Well Jameter (cm/tn) Gavancize, Fixed, Steel) Status Status of Well Quiside Material Wall Depth (m/tl) Recharge Well Outside Material Stot No Depth (m/tl) Recharge Well Outside Material Stot No Depth (m/tl) Recharge Well Outside Material Stot No Depth (m/tl) Beak Abandoned, other, specify Water found at Depth Stot No Depth (m/tl) Depth (m/tl) Diameter (m/tl) Material (m/tl) Stot No Depth (m/tl) Depth (m/tl) Diameter (m/tl) Outside Material Stot No Depth (m/tl) Depth (m/tl) Quiside Material	· · · ·	herenal						Duration of pumping					<u></u>
Air percussion Direct - Fusch Industrial Other, specify Industrial Industria Industrial In	Rotary (R				Test Hol	e 🗌	Monitoring		1	5		5	
Striver specify Direct Push Other, specify Inside (amander, formán) Open Hole OR Material (Galvanized, Steel) Wall Trickness (com/in) Depth (m/ft) Bepta Charlow (m/ft) Replacement Well (District Concrete, Plastic, Steel) 15 15 5, 20 Plosifier 39.0 3.1 Recharge Well (District Construction Record - Screen (com/in) Depth (m/ft) Recharge Well (District Construction Monitoring Hole (Construction Construction Record - Screen (com/in) 3.1 Depth (m/ft) Recommended pump rate (m/ft) Well production (l/min / GPM) 40 40 Outside (m/ft) Material (m/ft) Stot No. Depth (m/ft) Depth (m/ft) Disinfected? 60 60 Valuer found at Depth (m/ft) Stot No. Depth (m/ft) Other, specify Other, specify Other, specify Other, specify	Boring			0	Cooling	& Air Conditio	oning	Final water level end of	pumping (m/ft)	10	* .	10	
Construction Record - Casing Status of Well Inside Diameter Open Hole OR Material (GarWani) Wall Depth (m/ft) Water Supply S. 20 Plosic, Steel Grn/in From To Recharge Well Recommended pump rate 30 30 S. 20 Plosic : Steel Grn/in O 3.1 Recharge Well Bewatering Well Quescreation and/or Monitoring Hole 40 40					·			If flowing give rate (1/mi	n/GPM)	15		15	
Inside (anvalue) Open Hole OR Material (Galvanized, Steel) Wail Thickness (cm/in) Depth (m/t) Water Supply Recommended pump depth (m/t) 25 25 S. 20 Plosisc (Steel) 3.1 Recharge Well Recommended pump rate (m/n) 30 30 S. 20 Plosisc (Steel) 3.1 Recommended pump rate (m/n) Recommended pump rate (m/n) 30 30 S. 20 Plosisc (Steel) 3.1 Recommended pump rate (m/n) 30 30 Observing Well Observing Well Observing Well Observing Well 40 40 Outside Diameter (cm/in) Material (Plastic, Galvanized, Steel) Stot No. Depth (m/ft) From To Abandoned, Insufficient Supply Abandoned, other, specify Nap of Well Location Water Details Hole Diameter (m/ft) Other, specify Other, specify Other, specify Material (m/ft) Plass for the pack.		Construction F	lecord - Cas	ing		Status	of Well						<u> </u>
(cm/in) Concrete, Plastic, Steel) (cm/in) From To To <thto< th=""> To <thto< th=""> To</thto<></thto<>				Depth	n (<i>m/ft</i>)	U Water S	Supply	Recommended pump of	depth (m/ft)	20		20	
S. 20 Plosts c 39 u 3.1 Recharge Well 30 30 S. 20 Plosts c 39 u 30 40 40 40 S. 20 Observation and/or Monitoring Hole Alteration 40 40 40 S. 20 Observation and/or Monitoring Hole Alteration 50 50 50 50 60				From	To					25		25	
Image: Construction Record - Screen Image: Construction Record	570	Plaite	240	0	21				rate	30		30	
Monitoring Hole Monitoring Hole Alteration Construction Record - Screen Outside Diameter (Cmvin) Vater found at Depth (m/ft) Gas Other, specify	J,	1105116			<u> </u>					40		40	
Outside Construction Record - Screen Abandoned, Insufficient Supply Outside Material Depth (m/ft) Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. J J J Mater found at Depth Kind of Water: Fresh Under found at Depth Kind of Water: Fresh Under found at Depth Kind of Water: Fresh Under found at Depth Conter, specify Diameter (m/ft) Gas Other, specify		· · · · · · · · · · · · · · · · · · ·				Monitori	ng Hole	Well production (I/min /	GPM)	50		50	
Construction Record - Screen Abandoned, Insufficient Supply Abandoned, Poor Water Quality Yes No 60 60 Outside Diameter (cm/in) Material (Plastic, Galvanized, Steel) Slot No. Depth (m/ft) From Depth (m/ft) Abandoned, Insufficient Supply Abandoned, Plaster Quality Abandoned, Poor Water Quality Map of Well Location J J J J J J Plaster Plaster Plaster Plaster Plaster Material Other, specify No. Map of Well Location Plaster Plaster <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Disinfected?</td><td></td><td>50</td><td>· · ·</td><td></td><td></td></td<>								Disinfected?		50	· · ·		
Construction Record - Screen Abandoned, Poor Water Quality Outside Diameter (cm/in) Material Slot No. Depth (m/ft) Abandoned, other, specify 1 0 3 1 6 1 Please provide a map below following instructions on the back. 1 0 3 1 6 1 Please provide a map below following instructions on the back. Water found at Depth (m/ft) Water Details Hole Diameter Other, specify Image: Colspan="2">Mage: Colspan="2" Water found at Depth (m/ft) Gas Other, specify Diameter Diameter Colspan="2" Colspan="2" Mage: Colspan="2" </td <td></td> <td>and all</td> <td></td> <td></td> <td></td> <td>Abando</td> <td>ned,</td> <td>Yes No</td> <td></td> <td>60</td> <td></td> <td>60</td> <td></td>		and all				Abando	ned,	Yes No		60		60	
Outside Diameter (cm/in) Material (Plastic, Galvanized, Steel) Slot No. Depth (m/ft) From Water Quality Abandoned, other, specify Please provide a map below following instructions on the back. 103 103 103 103 106		Construction F	lecord - Scre	en		1			Map of We	ell Loc	ation		
(cm/in) (Plastic, Galvanized, Steel) From To Adamond to the product of t			Slot No.	Depth	(<i>m/ft</i>)	Water C	Quality	Please provide a map be	elow following	nstructi	ions on the	back.	
Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter (m/ft) Gas Other, specify 0 0 1 1 2		(Plastic, Galvanized, Steel)	0.01110.	From	То		ned, other,						
Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter (m/ft) Gas Other, specify 0 0 1 1 2	608	Placker	10	3.1	6.1								
Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter (m/ft) Gas Other, specify 0 0 0 0	2.00	11005116				🗌 Other, s	specify	* 1.	1 1				
Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter (m/ft) Gas Other, specify 0 0 0 0				Saile descention				1 M/h	\mathcal{J}				
(<i>m/ft</i>) Gas Other, <i>specify</i> From To (<i>cm/in</i>)	Mahar fair					all believes a state of the provident of the							
				Untested	1								
				Untested	0	6.1	10.92		А	1			

See Map

Comments:

Well Contractor's Licence No

7 2 4 1

Ministry's Copy

Municipality

an and/or Contractor Date Submitted

of

Page

Richmond Hill Wrecords@stratasoil.com Date Package Delivered Ministry Use Only Audit No. package delivered YYYYMMD Z1 4651 S Date Work Completed Yes 20120615 201206 No 1 3

PH 2262

Well Contractor and Well Technician Information

Business E-mail Address

	Ministry of
Ontario	the Environment
	. /

Well Tag No. (Place Sticker and/or Print Below) Tag#: A133593 19133593

S-12-686 Well Record Regulation 903 Ontario Water Resources Act

Page_____ of____

Measurements recorded in: 🕅 Metric 🗌 Impe

- je je

	ocation (Street Number/Name)	T	ownship	Lot	Co	ncession		
County/District/M	Stevenage dr	C	ity/Town/Village		Province		Postal	Code
			ottawa		Ontari	0		
JTM Coordinates		•	lunicipal Plan and Subl	ot Number	Other			
NAD 8 3	1845260250	25303		the standard formal			and the second se	
	d Bedrock Materials/Abandonme Most Common Material	1	ro <i>(see instructions on the</i> er Materials	General Description				th (<i>m/ft</i>)
General Colour	- /2						From	To
BAN	Gracel	Sand		Loose, dry	······································		0	. 71
124	Glay	Sand	•	Soft, dry		e	91	3.1
GRY	Clay			Soft Moist		3	. /	4.57
	04					4	1.57	6.1
		•				/		
	-							
				Results of We	Vield T	esting		
Depth Set at (n	Annular Space n/ft) Type of Sealant		Volume Placed	After test of well yield, water was:	Draw	and the second	Re	ecovery
	o (Material and Typ	pe)	(m³/ft³)	Clear and sand free	11 1		1 1	Water Level
0 3	1 Concrete / Fl.	ush name	4	Other, specify	(min) Static	(m/ft)	(min)	(m/ft)
Not 2		Comments of the second	/	If pumping discontinued, give reason:	Level			
31 20	7			and a second	1		1	
7.74 6.	1 Sand			Pump intake set at (m/ft)	2	-	2	
<u>at an</u> an aireann	· · · · · · · · · · · · · · · · · · ·				3		3	
Method c	of Construction	Well Us	6	Pumping rate (I/min / GPM)				
Cable Tool	Diamond Diamond Diamond	Commer		Duration of pumping	4	1993 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 	4	
Rotary (Conver			e Dewatering	hrs + min	5		5	
] Rotary (Reverse] Boring	e) Driving Livestoci		& Air Conditioning	Final water level end of pumping (m/ft)	10		10	
Air percussion	Industria							
] Other, specify _	Other, s	pecify		If flowing give rate (I/min / GPM)	15		15	
	Construction Record - Casing	Denth (m/ft)	Status of Well	Recommended pump depth (m/ft)	20		20	
Diameter (Gal	en Hole OR Material Wall Ivanized, Fibreglass, Thickness	Depth (<i>m/ft</i>)	Water Supply		25		25	
(cm/in) Con			_ Test Hole	Recommended pump rate	30		30	
5.20 1	Pastic 390 6	0 3.1	Recharge Well	(I/min / GPM)			- 30	
			Observation and/or	Well production (I/min / GPM)	40		40	
			- / C Monitoring Hole		50		50	
			(Construction)	Disinfected?	60		60	
· .	<u></u>		Abandoned, Insufficient Supply					
<u></u>	Construction Record - Screen	D	Abandoned, Poor	Map of W Please provide a map below following			ack.	
Outside Diameter (Plas	Material tic, Galvanized, Steel) Slot No.	Depth (<i>m/ft)</i> From To	Water Quality					
(cm/in)			specify					
,03 F	lastic 10 3.	1 6.1	Other, specify		7			
				I Fiw.				
	Water Details	Н	ole Diameter					
Vater found at D	Depth Kind of Water: Fresh		th (<i>m/ft</i>) Diameter					
	Gas Other, specify	From			NI	~ ^		
	Depth Kind of Water: Fresh Ur	ntested	6.1 10.92	hee	1-1	404)	
	Gas Other, <i>specify</i>					`		
	Gas Other, specify							
()	Well Contractor and Well Tec	hnician Informat	tion					
usiness Name c	of Well Contractor	We	Il Contractor's Licence No.					
Strata	Drilling Group		7241					
	s (Street Number/Name)		inicipality	Comments:				
147-2	W. Beaver Creek Postal Code Business E-m		ichmondhill					
Province			atesoil.com	Well owner's Date Package Deliver	ed	Minis	try Use	e Only
Bus.Telephone Nr	5. (inc. area code) Name of Well Techr	nician (Last Name,	First Name)	information	73281.05	udit No.		
70576	41913104 Beatty	Brian		delivered		Z	145	5270
Vell Technician's L	icence No. Signature of Techniolan an	d/or Contractor Da	te Submitted	Yes		A # # #	*	N
361	6	- 12	0120615		O J Re	iceiv A UI	<u>5 () (</u>	1_2012_
606E (2007/12)	© Queen's Printer for Ontario, 2007	2262	Ministry's Copy	1				
	THA	an - tager tagen						

Well ID Number: 7211957 Well Audit Number: *Z177990* Well Tag Number: *A154118*

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

Well Location

Address of Well Location	2320 STEVENAGE DR
Township	GLOUCESTER TOWNSHIP
Lot	
Concession	-
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 452303.00 Northing: 5025252.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	GRVL	LOOS	DRY	0 m	.61 m
BRWN	CLAY	SLTY	SOFT	.61 m	3.1 m
BRWN	CLAY	SLTY	SOFT	3.1 m	4.57 m
GREY	CLAY	SLTY	SOFT	4.57 m	5.79 m

Annular Space/Abandonment Sealing Record

		Type of Sealant Used (Material and Type)	
0 m	.31 m	CONCRETE	
.31 m	2.44 m	BENTONITE	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

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

Direct Push

Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	2.74 m

Construction Record - Screen

Outside Material Depth Depth Diameter Material Depth From To 4.82 cm PLASTIC 2.74 m 5.79 m Well ID Number: 7211958 Well Audit Number: *Z177988* Well Tag Number: *A154028*

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

Well Location

2320 STEVENAGE DR
GLOUCESTER TOWNSHIP
OTTAWA-CARLETON
OTTAWA
ON
n/a
NAD83 — Zone 18 Easting: 452324.00 Northing: 5025231.00

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	LOOS	0 m	.61 m
BRWN	CLAY	SLTY	SOFT	.61 m	3.1 m
BRWN	CLAY	SLTY	SOFT	3.1 m	4.57 m
GREY	CLAY	SLTY	SOFT	4.57 m	6.1 m

Annular Space/Abandonment Sealing Record

		Type of Sealant Used (Material and Type)	
0 m	.31 m	CONCRETE	
.31 m	2.74 m	BENTONITE	
2.74 m	6.1 m	SAND	

Method of Construction & Well Use

Method of Construction Well Use

Direct Push

Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	3.1 m

Construction Record - Screen

Outside Material Depth Depth Diameter Material From To 4.82 cm PLASTIC 3.1 m 6.1 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

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

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From		Diameter
0 m	6.1 m	8.25 cm

Audit Number: Z177988

Date Well Completed: October 30, 2013

Date Well Record Received by MOE: November 28, 2013

Well ID Number: 7211959 Well Audit Number: *Z177987* Well Tag Number: *A154143*

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

Well Location

2320 STEVENAGE DR
GLOUCESTER TOWNSHIP
OTTAWA-CARLETON
OTTAWA
ON
n/a
NAD83 — Zone 18 Easting: 452262.00 Northing: 5025164.00

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	LOOS	0 m	.61 m
BRWN	CLAY	SLTY	SOFT	.61 m	3.1 m
BRWN	CLAY	SLTY	SOFT	3.1 m	4.57 m
GREY	CLAY	SLTY	SOFT	4.57 m	6.1 m

Annular Space/Abandonment Sealing Record

		Type of Sealant Used (Material and Type)	
0 m	.31 m	CONCRETE	
.31 m	2.74 m	BENTONITE	
2.74 m	6.1 m	SAND	

Method of Construction & Well Use

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

Direct Push

Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	3.1 m

Construction Record - Screen

Outside Material Depth Depth Diameter Material From To 4.82 cm PLASTIC 3.1 m 6.1 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water wasIf pumping discontinued, give reasonPump intake set atPumping RateDuration of PumpingFinal water levelIf flowing give rateRecommended pump depthRecommended pump rateWell ProductionDisinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From		Diameter
0 m	6.1 m	8.25 cm

Audit Number: Z177987

Date Well Completed: October 30, 2013

Date Well Record Received by MOE: November 28, 2013

Well ID Number: 7211960 Well Audit Number: *Z177999* Well Tag Number: *A154127*

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

Well Location

Address of Well Location	2320 STEVENAGE DR
Township	GLOUCESTER TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 452251.00 Northing: 5025260.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL	LOOS	DRY	0 m	.61 m
BRWN	CLAY	SLTY	SOFT	.61 m	3.1 m
BRWN	CLAY	SLTY	SOFT	3.1 m	4.57 m
GREY	CLAY	SLTY	SOFT	4.57 m	6.1 m

Annular Space/Abandonment Sealing Record

	Depth To	Type of Sealant Used (Material and Type)	
0 m	.31 m	CONCRETE	
.31 m	2.74 m	BENTONITE	
2.74 m	6.1 m	SAND	

Method of Construction & Well Use

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

Direct Push

Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	3.1 m

Construction Record - Screen

Outside Material Depth Depth Diameter Material From To 4.82 cm PLASTIC 3.1 m 6.1 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water wasIf pumping discontinued, give reasonPump intake set atPumping RateDuration of PumpingFinal water levelIf flowing give rateRecommended pump depthRecommended pump rateWell ProductionDisinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	1	Diameter
0 m	6.1 m	8.25 cm

Audit Number: Z177999

Date Well Completed: October 31, 2013

Date Well Record Received by MOE: November 28, 2013

Well ID Number: 7211961 Well Audit Number: *Z177989* Well Tag Number: *A154287*

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

Well Location

Address of Well Location	2320 STEVENAGE DR
Township	GLOUCESTER TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 452324.00 Northing: 5025131.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL	LOOS	DRY	0 m	.61 m
BRWN	CLAY	SLTY	SOFT	.61 m	3.1 m
BRWN	CLAY	SLTY	SOFT	3.1 m	4.57 m
GREY	CLAY	SLTY	SOFT	4.57 m	6.1 m

Annular Space/Abandonment Sealing Record

	Depth To	Type of Sealant Used (Material and Type)	
0 m	.31 m	CONCRETE	
.31 m	2.74 m	BENTONITE	
2.74 m	6.1 m	SAND	

Method of Construction & Well Use

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

Direct Push

Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	3.1 m

Construction Record - Screen

Outside Material Depth Depth Diameter Material From To 4.82 cm PLASTIC 3.1 m 6.1 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water wasIf pumping discontinued, give reasonPump intake set atPumping RateDuration of PumpingFinal water levelIf flowing give rateRecommended pump depthRecommended pump rateWell ProductionDisinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	1	Diameter
0 m	6.1 m	8.25 cm

Audit Number: Z177989

Date Well Completed: October 30, 2013

Date Well Record Received by MOE: November 28, 2013

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, E.I.T.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Alberta Professional Engineers and Geoscience Association NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present **Paterson Group Inc.** Consulting Engineers Geotechnical and Environmental Division Environmental Engineer

2014 – 2015 **Thurber Engineering Limited** Oil Sand Tailings Group Tailings Engineer

2014 – 2013 **Carleton University** Department of Civil & Environmental Engineering Division Research Engineer

2013 - 2009 Carleton University Department of Civil & Environmental Engineering Division Research Assistant and Teachers Assistant

2008 – 2009 SLR Consulting Limited Contaminated Sites Junior Environmental Engineer

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Associate and Supervisor of the Environmental Division Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991 Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

1991 to Present **Paterson Group Inc.** Associate and Senior Environmental/Geotechnical Engineer Environmental and Geotechnical Division Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island Agricultural Supply Facilities - Eastern Ontario Laboratory Facility - Edmonton (Alberta) Ottawa International Airport - Contaminant Migration Study - Ottawa **Richmond Road Reconstruction - Ottawa** Billings Hurdman Interconnect - Ottawa Bank Street Reconstruction - Ottawa Environmental Review - Various Laboratories across Canada - CFIA Dwyer Hill Training Centre - Ottawa Nortel Networks Environmental Monitoring - Carling Campus - Ottawa Remediation Program - Block D Lands - Kingston Investigation of former landfill sites - City of Ottawa Record of Site Condition for Railway Lands - North Bay Commercial Properties - Guelph and Brampton Brownfields Remediation - Alcan Site - Kingston Montreal Road Reconstruction - Ottawa Appleford Street Residential Development - Ottawa Remediation Program - Ottawa Train Yards Remediation Program - Bayshore and Heron Gate Gladstone Avenue Reconstruction - Ottawa Somerset Avenue West Reconstruction - Ottawa