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Phase I-Environmental Site Assessment

390 Bank Street
Ottawa, Ontario

Prepared For

Urban Capital Property Group

August 31, 2019

Report: PE4650-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Urban Capital Property Group to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 390 Bank Street, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed prior to 1888 and used for residential purposes until the early 1910s. In the early 1920s, the subject land was then occupied by a retail fuel outlet (RFO) on the northern portion of the property until 1970. The former operation of the RFO resulted in an area of potential environmental concern (APEC) on the Phase I Property. This APEC was addressed in previous environmental investigations conducted by Trow Associates Inc. (Trow) in 2008 and by Paterson in 2011. A record of site condition (RSC) was subsequently filed for the property. Based on the RSC file, the soil and groundwater on and beneath the Phase I Property were in compliance of the applicable MECP standards. It should be noted that maximum reported concentrations remaining on-site, comply with the current MECP Table 3 Residential Standards. No further work was recommended by Trow or Paterson.

Historical land use of the neighbouring properties included residential, commercial/light-industrial and retailers. Several potentially contaminating activities (PCAs) were identified within the study area. Based on the separation distance and redevelopment of the neighbouring properties, these PCAs did not result in APECs on the Phase I Property.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by a single-storey commercial building operating as a restaurant since circa 2003. Neighbouring land use in the Phase I Study Area consists of residential and commercial (retailers and restaurants). No PCAs were noted with the current use of the Phase I Property or within the Study Area.

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

Recommendations

Based on the age of the subject building, potentially asbestos containing materials (ACMs) maybe present in the subject building, including the vinyl floor tiles, drywall joint compound, suspended ceiling tiles, interior stucco and plaster finishes. Lead-based paints may also be present on painted surfaces.

It is our understanding that the subject building will be demolished in conjunction with future redevelopment. Prior to any demolition activities, a designated substance survey (DSS) must be conducted for the existing structure, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

1.0 INTRODUCTION

At the request of Urban Capital Property Group, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 390 Bank Street, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

Paterson was engaged to conduct this Phase I-ESA by Ms. Taya Cook from Urban Capital Property Group. The head office is located at 17 Nelson Street, Toronto, Ontario. Ms. Cook can be reached by telephone at (416) 304-1755.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	390 Bank Street, Ottawa, Ontario
Legal Description:	Lot 18 and 19, Plan 15558, Bank Street West, Ottawa
Location:	The site is located on the southwest corner of where James Street transects with Bank Street, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	04119-0139
Latitude and Longitude:	45° 24’ 47.07" N, 75° 41' 40.91" W

Site Description:

Configuration:	Rectangular
Area:	1,081 m^2 (approximately)
Zoning:	TM – Traditional Mainstreet, Mixed-use Zone
Current Use:	The subject site is occupied by a single storey commercial building (restaurant) on the eastern portion of the property, while the northwestern portion is used for vehicular parking.
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 properties, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on fire insurance plans and aerial photographs, the subject site was initially developed with a residential dwelling prior to 1888.

Fire Insurance Plans

The 1888, 1912, 1925 and 1956 Fire Insurance Plans (FIPs) for the subject site and surrounding lands were review as part of this assessment.

The 1888 FIPs indicate that the subject site existed at this time as two (2) parcels of land, one occupied by a residential dwelling at 21 James Street and a vacant lot at 394 Bank Street. The 1912 FIPs indicate that the site is still occupied by a residential dwelling and the present-day commercial building that was occupied by a mirror and bevelling workshop. The 1925 and 1956 FIPs indicate that the site is occupied by a retail fuel outlet with two (2) underground storage tanks (USTs), a commercial building fronting Bank Street and the pre-existing residence fronting James Street.

Based on the FIPs, the neighbouring lands consisted of commercial businesses along Bank Street and residential along streets that transect with Bank Street. Several potentially contaminating activities (PCAs) were identified within the Phase I study area. These historical PCAs are listed in Table 1.

TABLE 1. Potentially Contaminating Activities
Fire Insurance Plans Review Summary

Address	Year of FIP	Listed Activity	Approximate Distance / Orientation from Site
Bank Street			
394-396	1925, 1956	Gasoline Service Station (2 USTs)	Onsite
370	1901	Printing Office (motor)	65 m N
374	1901	Printing (motor)	
404	1901, 1925, 1956	Paints	2 m S
370	1925	Photos	68 m N
376-378	1925, 1956	Electrical Works	63 m N
384	1925	Glass Works	60 m N
448	1925, 1956	Gasoline Service Station (4 USTs)	168 m S
455	1925, 1956	Gasoline Service Station (3 USTs)	175 m S
464	1925, 1956	Dealership & Automotive Garage	213 m S
Gladstone Avenue			
433	1956	Gasoline Service Station (2 USTs)	162 m SW
430	1956	Progressive Printers	170 m SW
Gilmour Street			
385-389	1888	Shingles and Lumber Yard	62 m NE
384	1925, 1956	Garage & Repairs	92 m NE
James Street			
9	1925	Garage & Repairs	25 m NW
24-26	1925	Battery Charging	45 m SW
Florence Street			
7-11	1925, 1956	Garage & Repairs (1 UST)	25 m S

Based on the separation distances and/or downgradient orientation with respect to the subject site, the off-site PCAs are not considered to represent areas of potential environmental concern (APECs).

An on-site PCA, a former retail fuel outlet (RFO) would normally represent an APEC on the Phase I Property, however, previous environmental investigations (Phase I & II ESA) conducted by Trow Associates Inc. (Trow) in 2008, addressed this on-site PCA and it no longer poses an environmental concern on the Phase I Property. More details regarding this former APEC has been discussed in the Previous Engineering Reports section.

Historical PCAs identified in the FIPs review are shown on Drawing PE4650-2 Surrounding Land Use Plan.

City of Ottawa Street Directories

City directories were reviewed in approximately ten (10) year intervals back to the 1888. The subject site was first listed as residential from 1888 to early 1920s. The property was then listed as John's Service Station and Sunlight Oil Service Station from 1922 to 1970. From 1955 to 2011, the property was also shared by a commercial building that operated as restaurants over the course of those years. Surrounding lands listed several other retail fuel outlets (FROs) in the directories. PCAs identified within the study area are presented in Table 2.

TABLE 2. Potentially Contaminating Activities
City Directories Review Summary

Address	Years Listed	Listed Activity	Approximate Distance / Orientation from Site
Bank Street			
394-396	1922-1970	Various Retail fuel outlets	On-site
448	1922-1960	Retail fuel outlet	168 m S
455	1922-1960	Retail fuel outlet	175 m S
464	1922-1960	Automotive Garage	213 m S
Gladstone Avenue			
433	1950-1960	Retail fuel outlet	162 m SW
James Street			
9	1925	Garage & Repairs	25 m NW
7-11	1930-1960	Automotive Garage	25 m S

Based on the separation distances and/or orientation with respect to the subject site in combination with the previous environmental investigations, these listed activities are not considered to result in APECs on the Phase I Property.

Historical PCAs identified in the city directories review are shown on Drawing PE4650-2 Surrounding Land Use Plan.

Chain of Title

Paterson verified the current land title for the Phase I Property with Read Abstracts Limited. According to the chain of title received on August 8, 2019, Plan 15558, covers Lot 18 and 19, was first registered by James McLaren on July 10, 1872. The deed was transferred over the years to private individuals until 1883, when the property was acquired by Freehold Association of Ottawa and subsequently separated into Lots 18 and 19.

Ownership of Lot 18 was transferred from Freehold Association of Ottawa to a private individual in 1884, and over many years, transferred to other individuals until 1946, where the property was acquired by Arthur Dupont and Ewart Mustard trading as Sunlight Oil Company, and from Arthur Dupont to B.P Canada Limited in 1958. Subsequently, the land was transferred from B.P Oil Limited to Jimmy's Grill Limited in 1974.

Ownership of Lot 19 was transferred from Freehold Association of Ottawa to a private individual in 1883, and over many years, transferred to a number of different private individuals until 1952. The property was leased to Thomas Hum and William Roy trading as H & P Realty Company to Jimmy's Grill Limited, until they acquired the property in 1966, and subsequently transferred the deed of Lots 18 and 19 to a registered corporation in 1996. The current property owner, Urban Capital (James Street) Inc. acquired the Phase I Property in February 2012.

One (1) former activity of concern was identified during a review of the chain of title. Plan 15558, Lot 18 was acquired by Arthur Dupont and Ewart Mustard trading as Sunlight Oil Company in 1946. Dupont and Mustard subsequently transferred the property to B.P Oil Limited in 1958, to which the property was acquired by Jimmy's Grill Limited in 1974. Arthur Dupont and Ewart Mustard were considered the owners and operators of the RFO previously identified on the Phase I Property in the 1925 and 1956 FIPs and city directories.

The former presence of the RFO has been addressed in a Phase I & II ESA by Trow (2008) and Paterson (2011). A Record of Site Condition (RSC) was subsequently filed in 2011. The former RFO no longer represents an APEC on the Phase I Property. More details regarding the environmental work and RSC for the Phase I Property are discussed in the Previous Engineering Reports and Record of Site Condition section of this report.

No other PCAs were identified on the Phase I Property during the review of the chain of title.

Proposed Site Plan

A survey plan was not provided at the time. A proposed site plan prepared by Raw Design (2019) was review as part of the assessment. The plan depicts the Phase I Property in its current configuration.

Previous Environmental Reports

The report: "Phase I & II Environmental Site Assessment, 390 Bank Street, Ottawa, Ontario" prepared by Trow Associates Inc. (Trow), dated January 2008 was reviewed. The report summarized a previous Phase I & II ESA report, a fuel tank decommissioning report and a soil and bedrock investigation and assessment, which were completed for the site. According to these reports, the primary environmental concern was associated with the operation of a retail fuel outlet between approximately 1920 and 1970. The former underground storage tanks (USTs) and petroleum impacted soil were subsequently removed from the site. In addition, the former pump island had been assessed and no indications of petroleum impacts to either soil or groundwater were detected.

Based on the findings of the Phase I & II ESA conducted by Trow, the former presence of a gasoline service station on the subject property was considered to represent an area of potential environmental concern (APEC) on the subject site. Six (6) borehole were drilled, three (3) of which were completed as groundwater monitoring wells. The boreholes/monitoring wells were placed to assess potential on-site concerns with the former retail fuel outlet (RFO) and with respect to the automotive repair garage south of the site. None of the soil and groundwater analytical results were found to exceed the selected MOE Table 3 standards for residential land use. No further investigation was required.

Trow recommended that a designated substance survey (DSS) be conducted for the subject building.

In November 2011, Paterson conducted a Phase I ESA. Based on their findings, the historical land use of the subject site was confirmed, however, the analytical test results from 2008 indicated that the former RFO had not impacted the Phase I Property. Additionally, a record of site condition (RSC) was filed for the subject site by EFI Global in April 2011. Given the latter and that the land use and current occupants of the site have not changed since the RSC was filed, Paterson concluded that no further environmental work was required.

Geotechnical Investigation

Paterson conducted a subsurface investigation in July 2019. Based on the investigation, the soil profile was observed to consisted of either an asphaltic pavement structure or fill material (silty sand with gravel), followed by silty sand, underlain by silty clay, followed by glacial till and bedrock. Bedrock was encountered at approximately 17.5 m below the existing grade. No deleterious substances or hazardous materials were observed during the subsurface investigation.

Proposed Development Plan

A proposed site plan was reviewed as part of this assessment. It depicts the Phase I Property with the proposed condominium building with a commercial ground level. A copy of the proposed plan is provided in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on June 27, 2019. No records were found in the NPRI database for properties within the study area.

PCB Inventory

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

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on June 26, 2019. The search did not reveal any areas of natural significance within the Phase I study area.

Ministry of the Environment, Conservation and Parks (MECP) Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. One record of site condition (RSC) was filed for the Phase I Property in April 2011. Based on the ESR, an underground storage tank decommissioning program as well as a Phase I & II ESA were conducted on the subject site. The maximum reported concentrations remaining on-site were in compliance with the current MECP Table 3 Residential Standards. No remediation was required for the RSC Property.

Four (4) RSCs were identified for the following properties within the Phase I Study Area, 330 Gilmour Street, 340 McLeod Street, 453 Bank Street and435 Gladstone Avenue. Based on the separation distances of these RSC properties with respect to the Phase I Property, in combination with the information in the ESR, these properties are not considered to represent APECs on the subject land.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on June 27, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

Former Industrial Sites

The report titled “Mapping and Assessment of Former Industrial Sites, City of Ottawa” prepared by Intera Technologies Limited was reviewed. The aforementioned report indicated the presence of one former industrial site within the study area; Site #39 (Printing, Publishing and Allied Industries) located at 430 Gladstone Avenue, approximately 200 m SW of the subject site. This industrial site is not considered to have the potential to impact the subject site based on sufficient distance separating the former site from the subject site.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No former landfill sites were identified in within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was conducted as part of this assessment.

At the time of issuance of this report, the HLUI search results had not been received. A copy of the HLUI request form is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

1928 The subject site has been developed with what appear to be two buildings on the south portion of the property. Neighbouring properties have been developed for what appear to be commercial or residential purposes.

1950 It appears that the subject site has been redeveloped with a gasoline service station and a small building. No significant changes appear to have been made to the neighbouring properties.

1969 No significant changes have been made to the subject site. The properties to the northwest of the site have been developed with what appear to be residential apartment buildings. The properties to the west of the site have been cleared and are used as a parking lot. No other significant changes were made to the neighbouring properties.

1978 The retail fuel outlet appears to have been removed. The north portion of the site appears to be used for vehicular parking. The properties to the west of the site appear to have been redeveloped with the present-day office buildings. No other significant changes were made to the subject site or neighbouring properties.

1992 An addition appears to have been constructed on to the north portion of the subject building. No other significant changes were made to the subject site or neighbouring properties.

1999 (Poor scale) No significant changes were made to the subject site or neighbouring properties.

2002 (City of Ottawa) No significant changes were made to the subject site or neighbouring properties.

2017 (City of Ottawa) No significant changes were made to the subject site or neighbouring properties.

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

Topographic Maps

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

Physiographic Maps

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

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of shale of the Billings Formation. The surficial geology in the area of the site consists of alluvial sediments (fluvial terraces, sand and silt) with a drift thickness ranging from 10 to 25 m.

Based on the geotechnical investigation conducted by Paterson in July 2019, the site geology consists of a gravel or asphaltic concrete paved layer, followed by silty sand, underlain by a silty layer consisting of sand and some gravel, followed by limestone bedrock at approximately 13 m below the existing grade.

Water Well Records

A well record search was conducted on June 27, 2019 for all drilled wells within 250 m of the subject site. The search returned twenty-two (22) well records of which, nineteen (19) were monitoring wells and three (3) were abandoned wells.

The majority of these records were wells located 150 m or more away from the subject site. Based on the separation distance, the monitoring wells are not considered an environmental concern to the subject site.

Several monitoring wells were located within the immediate vicinity of the subject site: five (5) located on a Bank Street immediately north of James Street (366-382

Bank Street), two (2) on the adjacent property to the south (408 Bank Street) and one at 21 James Street, approximately 25 north of the subject site. The monitoring wells were drilled to depths ranging from 4.5 to 5.8 m below the ground surface. The stratigraphy in the immediate area of the subject site consisted of sand and/or gravel, overlying a sandy silt/silty sand with some clay. No other information was provided in the well records. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance and Water Bodies

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

5.0 INTERVIEWS

Property Owner Representative

A representative of the current tenant was interviewed on July 22, 2019 during the site assessment. The current tenant is unaware of any potential environmental concerns regarding the subject property.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on July 22, 2019. Weather conditions were overcast with a temperature of approximately 20°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

The subject site is occupied by a single storey commercial building with a basement level. The building is occupied by the James Street Pub at the time of this assessment. The building exterior is finished off with concrete block and glass and has a concrete foundation, with a flat, tar and gravel roof. A wood patio is present to the north of the subject building. The building is heated by natural gas fired equipment.

Site Features

The commercial building is located on the southeast portion of the property. An asphalt paved parking area is present on the northwest portion of the site. A patio associated with the commercial building is present on the northeast portion of the site. Site drainage consists primarily of sheet drainage in the paved areas which drain to catch basins on site and along Bank Street and James Street. The site is generally flat, while the regional topography slopes gently down in a southerly direction.

The subject site is situated in a municipally serviced area. Underground utility services on the property include natural gas, water and sewer services which enter the site from Bank Street. One groundwater monitoring well was located next to the northwest side of the subject building at the time of the site visit.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit. No areas of stained pavement, stressed vegetation or unidentified substances were observed on-site at this time.

Interior Assessment

A general description of the interior of the subject building is as follows:

- ❒ Floor finishes consisted of a combination of poured concrete, ceramic tiles, vinyl tiles, terrazzo and hardwood.
- ❒ Wall finishes consisted of concrete block, interior brick, panelling, lathe and plaster and drywall.
- ❒ Ceilings were finished with plaster over wire mesh (interior stucco), suspended ceiling tiles, concrete decking on steel joists and drywall.
- ❒ Lighting throughout the building is provided by incandescent and fluorescent fixtures.

Based on the age of the building, potentially asbestos containing materials (ACMs) maybe present in the subject building, including the vinyl floor tiles, drywall joint compound, suspended ceiling tiles, interior stucco and plaster finishes. In general, all of the potential ACMs were in good condition. Lead-based paints may also be present on painted surfaces.

Fuel and Chemical Storage

The building is heated by a natural gas fired furnace. No above ground storage tanks (ASTs), fuels or chemicals were observed in the subject building. No potential environmental concerns were identified in the interior of the subject building at the time of the assessment.

Wastewater Discharge and Waste Management

Two floor drains, one in the kitchen and basement were observed to be dry. The liquid discharged from the subject building includes the washwater and sewage from the building. The subject site discharges into the City of Ottawa sewer system. No sumps were observed in the subject building.

Waste generated onsite generally consists of food waste and food packaging. No concerns were noted regarding waste generation and/or storage on the subject site.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection.

Land use adjacent to the subject site is as follows:

- North - James Street, followed by retailers and offices;
- South - Commercial offices, followed by Florence Street;
- East - Bank Street, followed by restaurants;
- West - Commercial offices, followed by residential dwellings.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and commercial purposes with some institutional land use. No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE4650-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site, as well as associated potentially contaminating activities dating back to the first developed use of the site based on the Chain of Title, Fire Insurance Plans, and aerial photographs.

Table 3. Land Use History – 390 Bank Street
Lots 18 & 19, Plan 15558, West Bank St. (PIN 04119-0139)

Time Period	Name of Owner	Property Use	Description of Property Use	Other Observations from Aerial Photos, FIPs, etc.
1872-1883	Private Individuals	N/A	N/A	No available observations.
Lot 18				
1883-1933	Private Individuals	Residential	Small dwelling	1888 and 1901 FIP indicates a small structure that resembles a residential dwelling.
1933-1958	Arthur Dupont and Ewart Mustard (trading as Sunlight Oil Company)	Industrial	Retail fuel outlet	The 1925 and 1956 FIP, city directories, aerials and chain of title
1958-1974	B.P Oil Limited	Industrial	Retail fuel outlet	The city directories and aerial photographs confirm these findings.
1974-1996	Jimmy's Grill Ltd.	Commercial	Restaurant	City directories, chain of title
Lot 19				
1883-1911	Private Individuals	Vacant	N/A	1889 and 1901 FIPs, chain of title
1911-1925	Private Individuals	Commercial	Mirror bevelling works	1912 and 1925 FIP, directories
1925-1959	Private Individuals	Commercial	Retail	1925 and 1956 FIP, chain of title, directories
1959-1996	Jimmy's Grill Ltd.	Commercial	Restaurant	City directories, chain of title
Lots 18 and 19				
1996-1998	National Trust	Commercial	Restaurant	City directories, chain of title
1998-2012	176929 Canada Inc.	Commercial	Restaurant	City directories, chain of title
2012-present	Urban Capital (James Street) Inc.	Commercial	Restaurant	City directories, chain of title

As discussed in Section 4.1, Previous Engineering Reports and available information regarding the RSC filed for the subject property, the former operation

of the RFO on the subject site is no longer considered a PCA and therefore does not represent an APEC on the Phase I Property.

The Phase I Property is currently occupied by a restaurant/pub that has been operating onsite for over 16 years. No new potential environmental concerns were noted with the historical and current land use of the subject property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Table 2 of O.Reg. 153/04, a historical PCA was identified on the subject site; a former retail fuel outlet (FRO), which was previously addressed in 2008 as an APEC on the Phase I Property. Based on the previous environmental investigations (2008 Phase I & II ESA), as discussed in Section 4.1, in combination with the RSC documentation for the Phase I Property, this former RFO is no longer considered a PCA.

Several off-site PCAs were identified within the Phase I Study Area. Based on their respective locations and separation distances, they do not represent APECs on the Phase I Property.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from the Geological Survey of Canada, the overburden in the area consists of alluvial sediments (sand and silt) with a drift thickness ranging from 10 to 25 m. Bedrock in the area consists of shale of the Billings Formation.

Groundwater flow is interpreted to be in a south/southeasterly direction.

Fill Placement

Based on the findings of the subsurface investigation, no deleterious fill material or unknown substances were encountered during the subsurface investigations.

Existing Buildings and Structures

The southeastern part of the site is occupied by a single storey commercial building with a single basement level and a wooden patio on the northeast side of the building. The northwestern part of the site is asphaltic concrete paved or gravel surface.

Water Bodies and Areas of Natural Significance

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

Drinking Water Wells

There are no potable water wells on the subject site.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of residential, commercial (offices, cafes, and retailers) and community (churches).

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, several PCAs were identified in the study area. Based on separation distance and/or orientation with respect to the subject site, off-site PCAs are not considered to represent APECs on the subject site. No new potentially contaminating activities were identified and thus, there are no areas of potential environmental concern on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, there are no contaminants of potential concern.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there are no APECs on the Phase I Property. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by Urban Capital Property Group to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 390 Bank Street, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed prior to 1888 and used for residential purposes until the early 1910s. In the early 1920s, the subject land was then occupied by a retail fuel outlet (RFO) on the northern portion of the property until 1970. The former operation of the RFO resulted in an area of potential environmental concern (APEC) on the Phase I Property. This APEC was addressed in previous environmental investigations conducted by Trow Associates Inc. (Trow) in 2008 and by Paterson in 2011. A record of site condition (RSC) was subsequently filed for the property. Based on the RSC file, the soil and groundwater on and beneath the Phase I Property were in compliance of the applicable MECP standards. It should be noted that maximum reported concentrations remaining on-site, comply with the current MECP Table 3 Residential Standards. No further work was recommended by Trow or Paterson.

Historical land use of the neighbouring properties included residential, commercial/light-industrial and retailers. Several potentially contaminating activities (PCAs) were identified within the study area. Based on the separation distance and redevelopment of the neighbouring properties, these PCAs did not result in APECs on the Phase I Property.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by a single-storey commercial building operating as a restaurant since circa 2003. Neighbouring land use in the Phase I Study Area consists of residential and commercial (retailers and restaurants). No PCAs were noted with the current use of the Phase I Property or within the Study Area.

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

8.2 Recommendations

Based on the age of the subject building, potentially asbestos containing materials (ACMs) maybe present in the subject building, including the vinyl floor tiles, drywall joint compound, suspended ceiling tiles, interior stucco and plaster finishes. Lead-based paints may also be present on painted surfaces.

It is our understanding that the subject building will be demolished in conjunction with future redevelopment. Prior to any demolition activities, a designated substance survey (DSS) must be conducted for the existing structure, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

9.0 STATEMENT OF LIMITATIONS

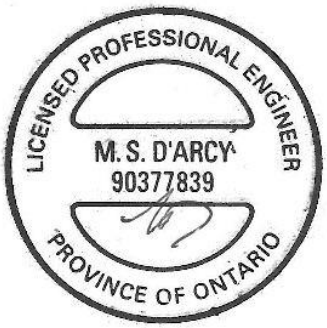
This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Urban Capital Property Group. Permission and notification from Urban Capital Property Group and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.



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

Report Distribution:

- ❑ Urban Capital Property Group
- ❑ Paterson Group

10.0 REFERENCES

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

Provincial Records
MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records
City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
geoOttawa: City of Ottawa electronic mapping website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources
Personal Interviews.

Public Information Sources
Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4650-1 – SITE PLAN

DRAWING PE4650-2 – SURROUNDING LAND USE PLAN

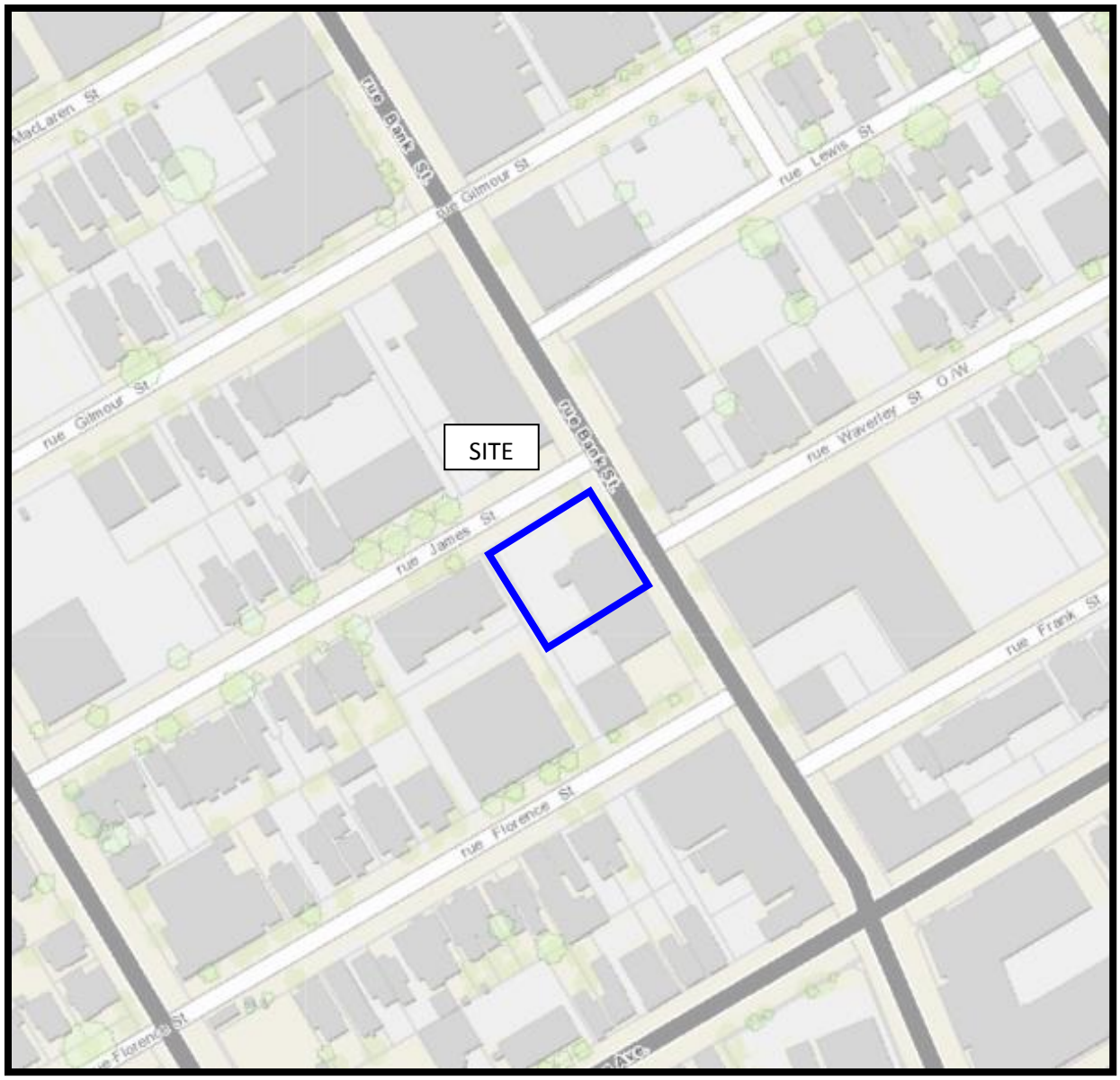


FIGURE 1

KEY PLAN

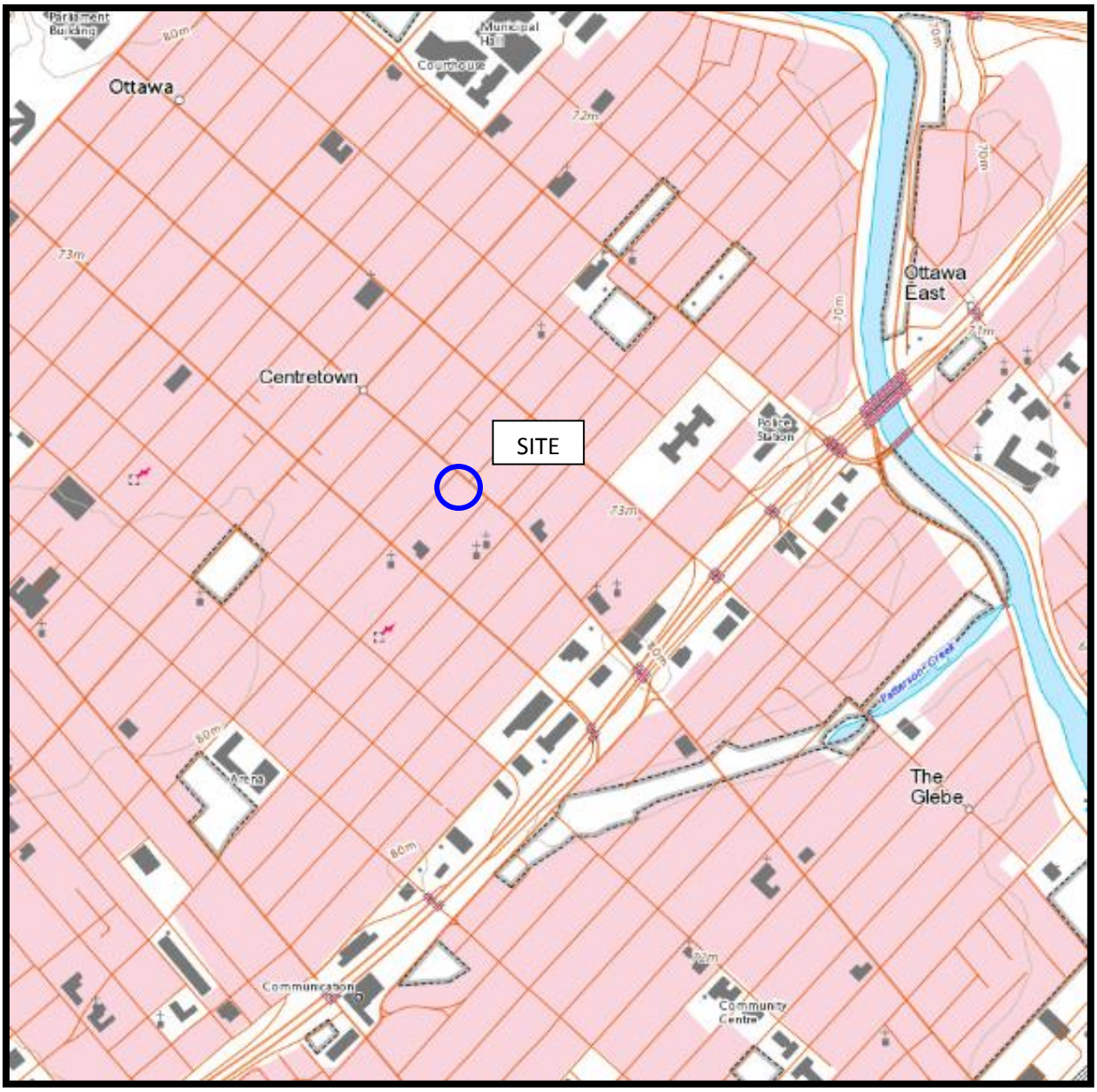
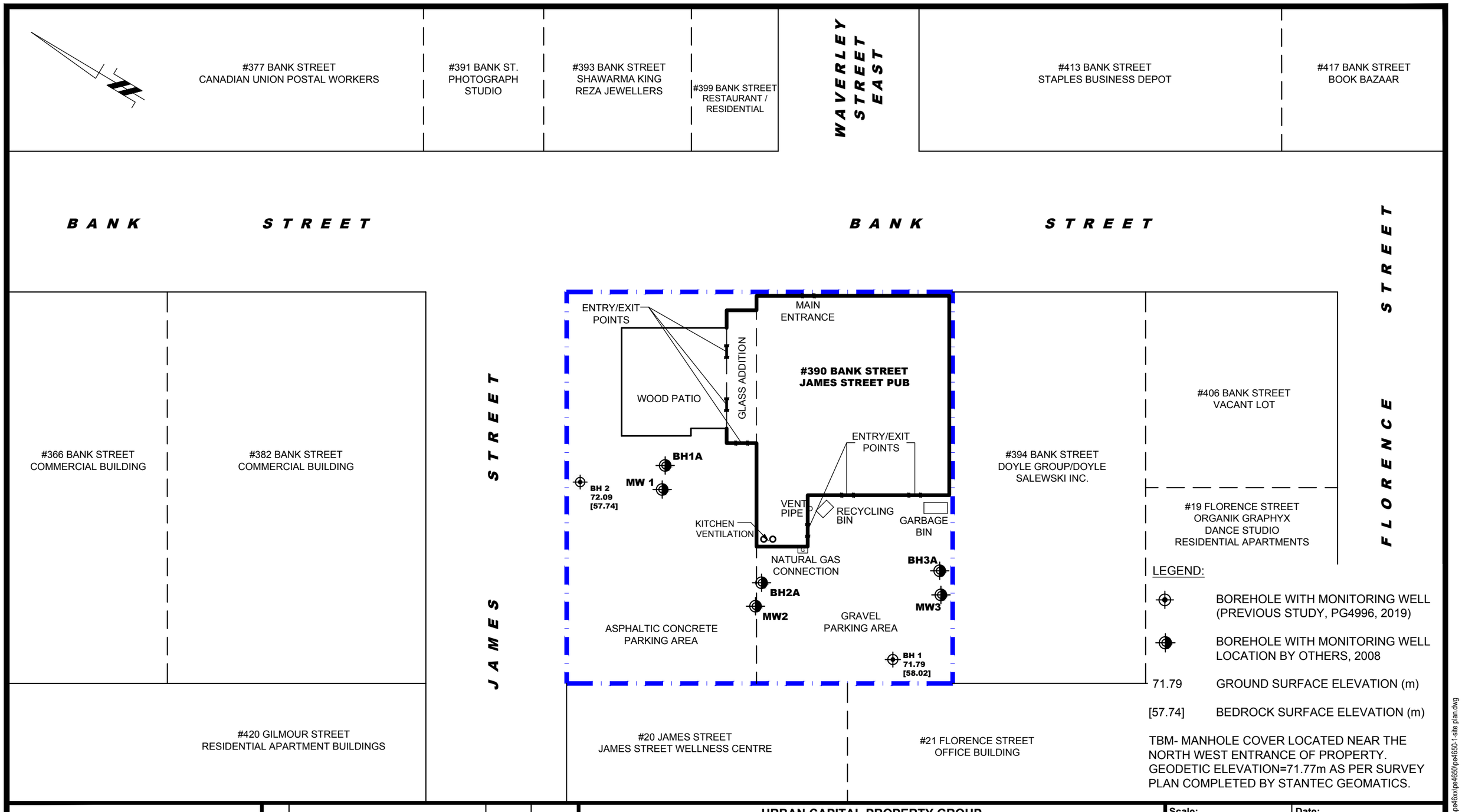


FIGURE 2

TOPOGRAPHIC MAP



LEGEND:

- BOREHOLE WITH MONITORING WELL (PREVIOUS STUDY, PG4996, 2019)
- BOREHOLE WITH MONITORING WELL LOCATION BY OTHERS, 2008
- 71.79 GROUND SURFACE ELEVATION (m)
- [57.74] BEDROCK SURFACE ELEVATION (m)

TBM- MANHOLE COVER LOCATED NEAR THE NORTH WEST ENTRANCE OF PROPERTY. GEODETIC ELEVATION=71.77m AS PER SURVEY PLAN COMPLETED BY STANTEC GEOMATICS.

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

URBAN CAPITAL PROPERTY GROUP

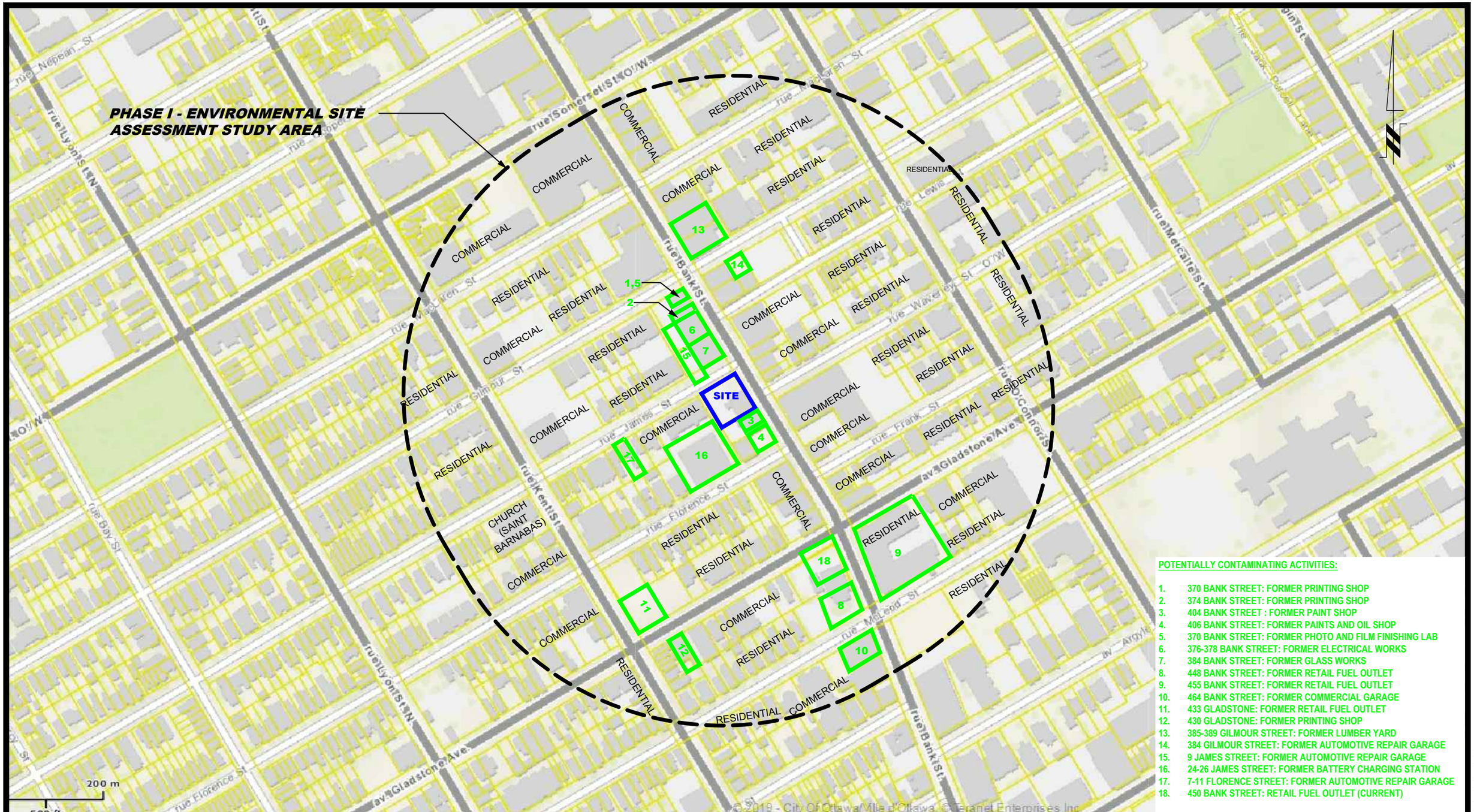
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
390 BANK STREET

OTTAWA, ONTARIO

Title: **SITE PLAN**

Scale: 1:300	Date: 07/2019
Drawn by: YA	Report No.: PE4650-1
Checked by: MW	**PE4650-1**
Approved by: MSD	Revision No.:

p:\autocad drawings\environmental\pe46xx\pe4650\pe4650-1-site plan.dwg



POTENTIALLY CONTAMINATING ACTIVITIES:

1. 370 BANK STREET: FORMER PRINTING SHOP
2. 374 BANK STREET: FORMER PRINTING SHOP
3. 404 BANK STREET : FORMER PAINT SHOP
4. 406 BANK STREET: FORMER PAINTS AND OIL SHOP
5. 370 BANK STREET: FORMER PHOTO AND FILM FINISHING LAB
6. 376-378 BANK STREET: FORMER ELECTRICAL WORKS
7. 384 BANK STREET: FORMER GLASS WORKS
8. 448 BANK STREET: FORMER RETAIL FUEL OUTLET
9. 455 BANK STREET: FORMER RETAIL FUEL OUTLET
10. 464 BANK STREET: FORMER COMMERCIAL GARAGE
11. 433 GLADSTONE: FORMER RETAIL FUEL OUTLET
12. 430 GLADSTONE: FORMER PRINTING SHOP
13. 385-389 GILMOUR STREET: FORMER LUMBER YARD
14. 384 GILMOUR STREET: FORMER AUTOMOTIVE REPAIR GARAGE
15. 9 JAMES STREET: FORMER AUTOMOTIVE REPAIR GARAGE
16. 24-26 JAMES STREET: FORMER BATTERY CHARGING STATION
17. 7-11 FLORENCE STREET: FORMER AUTOMOTIVE REPAIR GARAGE
18. 450 BANK STREET: RETAIL FUEL OUTLET (CURRENT)

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

NO.	REVISIONS	DATE	INITIAL
0			

URBAN CAPITAL PROPERTY GROUP

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
390 BANK STREET

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:3000	Date: 07/2019
Drawn by: YA	Report No.: PE4650-1
Checked by: MW	PE4650-2
Approved by: MSD	Revision No.:

p:\autocad drawings\environmental\pe4650\pe4650-2-surrounding land use plan.dwg

APPENDIX 1

PROPOSED SITE PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

ISSUED RECORD

2019.xx.xx - ISSUED FOR

REVISION RECORD

FLOOR GFA
1185.93 sm
12764.18 sft

VACANT GRAVEL LOT

EXISTING 3 STOREY BRICK BUILDING

EXISTING 2 STOREY BRICK BUILDING

RETAIL PATIO
37.84 sm
407.31 sft

RETAIL
321.88 sm
3464.41 sft
SEPARATE ERV UNIT AT HIGH LEVEL

RETAIL
328.75 sm
3538.30 sft
SEPARATE ERV UNIT AT HIGH LEVEL

MAIL
15.09 sm
162.36 sft

MOVING
10.79 sm
116.11 sft

PROPERTY MANAGER
20.96 sm
225.60 sft

WASHROOM
10.40 sm
111.96 sft

RESIDENTIAL GARBAGE
55.52 sm
597.54 sft

CACF
5.98 sm
64.31 sft

PARCEL STORAGE + PRODUCT LIBRARY
19.33 sm
208.00 sft

RESIDENTIAL LOBBY
352.83 sm
3797.48 sft

PARTY ROOM
86.75 sm
933.70 sft

FITNESS ROOM
84.67 sm
911.32 sft

OUTDOOR AMENITY
55.01 sm
592.06 sft

SHARED CORRIDOR RES+ NON RES

INTAKE
2.96 sm
31.84 sft

GAS RISER (2HR)

GAS METER

FIRE ALARM ANNUNCIATOR PANEL

VESTIBULE

RETAIL ENTRY/EXIT

BANK STREET WIDENING

PROPERTY LINE

HATCH DENOTES AREA OF BUILDING OVERHANG ABOVE

OPEN TO RETAIL BELOW

LOW HEADROOM (APPROX. 2440 TO U/S OF CONCRETE)

MIN. 2200mm CORRIDOR REQUIRED FOR GARBAGE ROOM ACCESS

RAMP DOWN 7.5%

RAMP DOWN 15%

TRENCH DRAIN

OVERHEAD GARAGE DOOR

CORRIDOR ENTRY/EXIT

EXIT

GARBAGE TRUCK TURNING SWEEP

PART 1
4R-20717
PIN 04119-0323

PART 2
4R-20717
PIN 04119-0324

PLAN 4R-22466

JAMES STREET

BANK STREET

CROWN OF ROAD

CONCRETE CURB

CONCRETE GUTTER

DEPRESSED CURB

CONCRETE SIDEWALK

INTERLOCKING STONES

CHAIN LINK FENCE

HYDRO WIRES

SANITARY SEWER

NORTH

RAW
405-317 ADELAIDE STREET WEST
TORONTO CANADA M5V 1P9
+1 416 599 9729
WWW.RAWDESIGN.CA

12017

JAMES HOUSE
390 BANK STREET
OTTAWA, ON

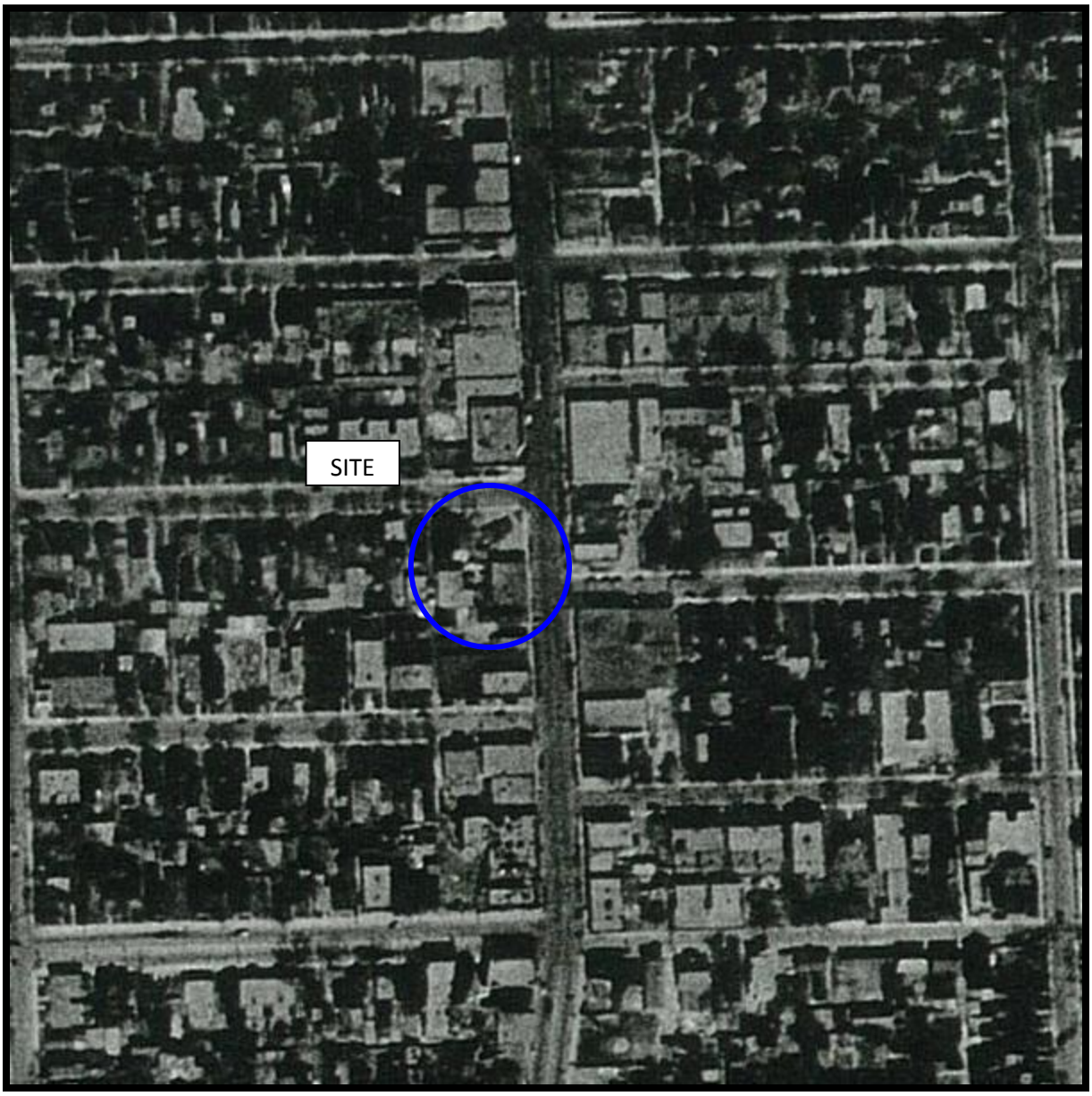
URBAN CAPITAL

17 Nelson Street | Toronto | Ontario | M5V 0G2
T. 416.304.0431

GROUND FLOOR PLAN

1:100

A201



AERIAL PHOTOGRAPH
1928

AERIAL PHOTOGRAPH
1950

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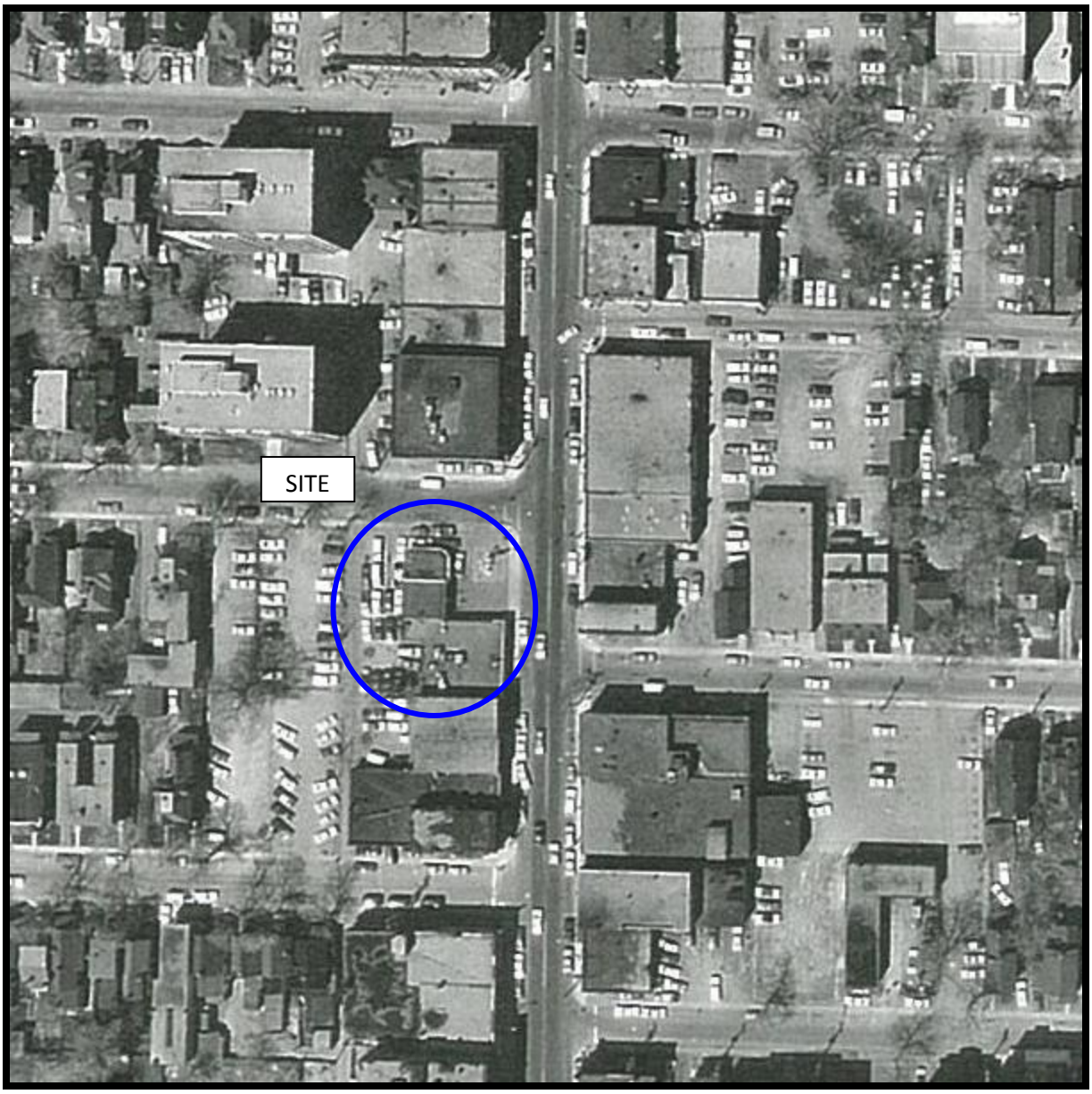

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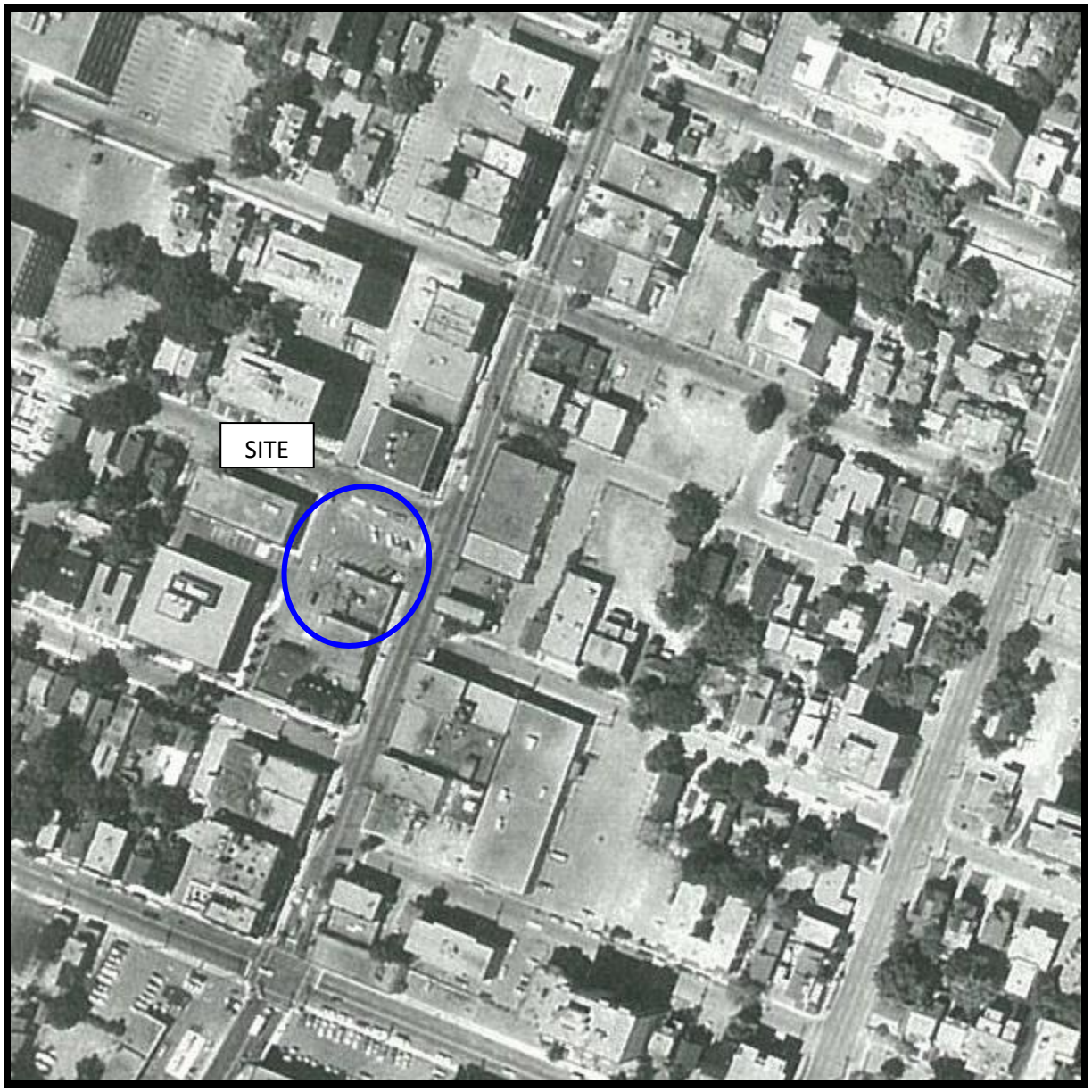
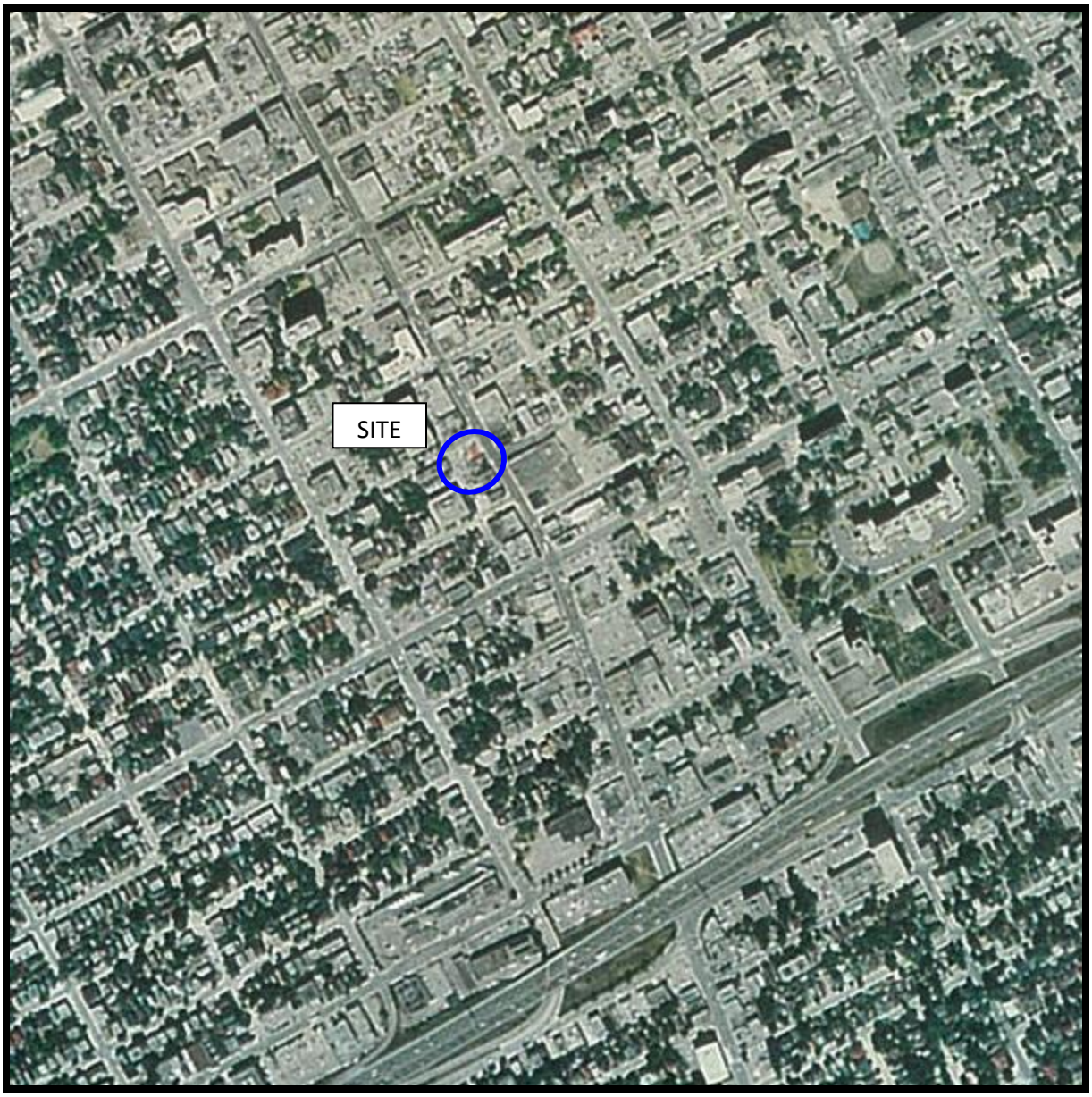
1969



AERIAL PHOTOGRAPH
1978

AERIAL PHOTOGRAPH
1992

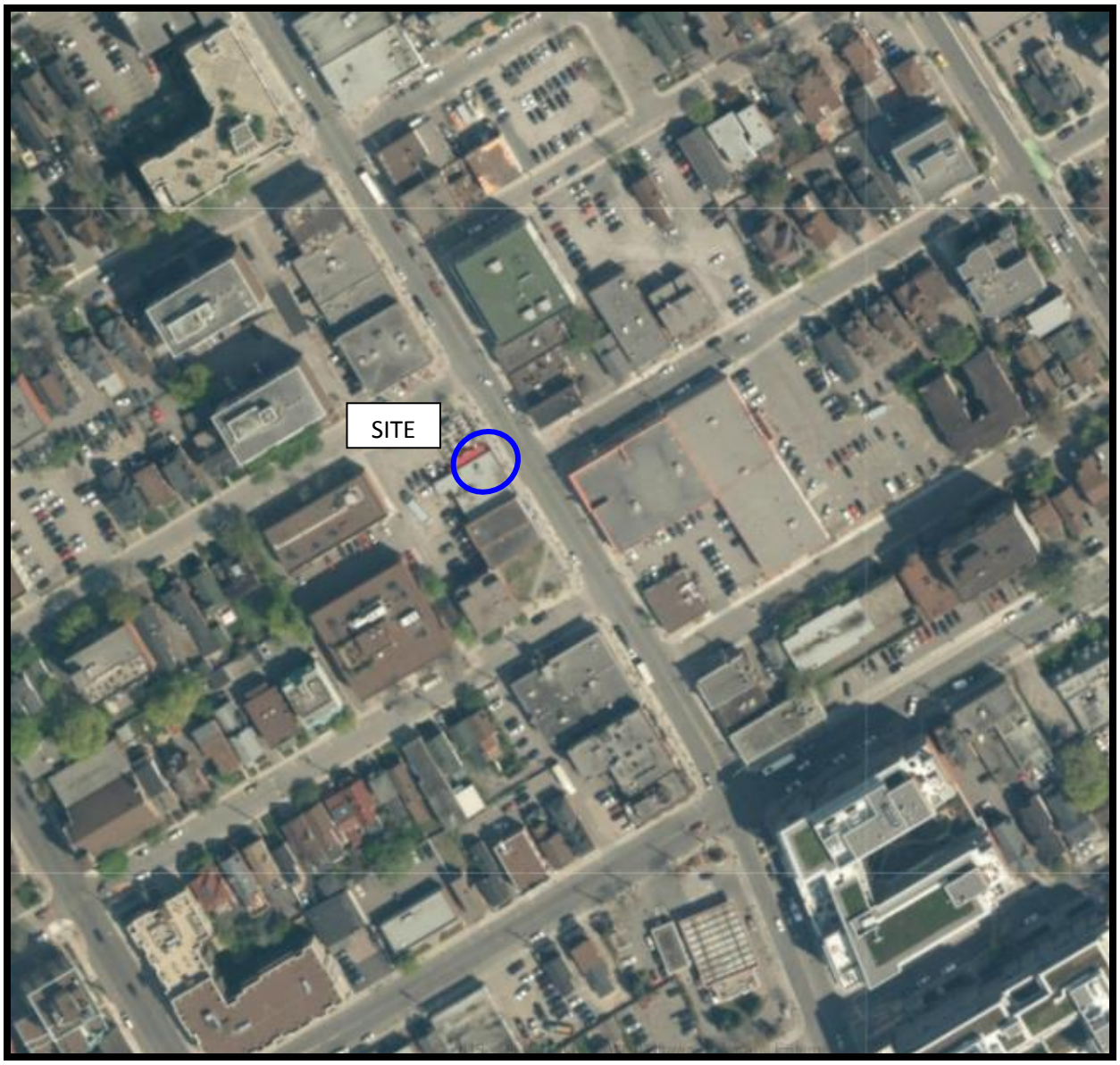


AERIAL PHOTOGRAPH
1999

patersongroup

AERIAL PHOTOGRAPH
2002

patersongroup



AERIAL PHOTOGRAPH
2017

patersongroup

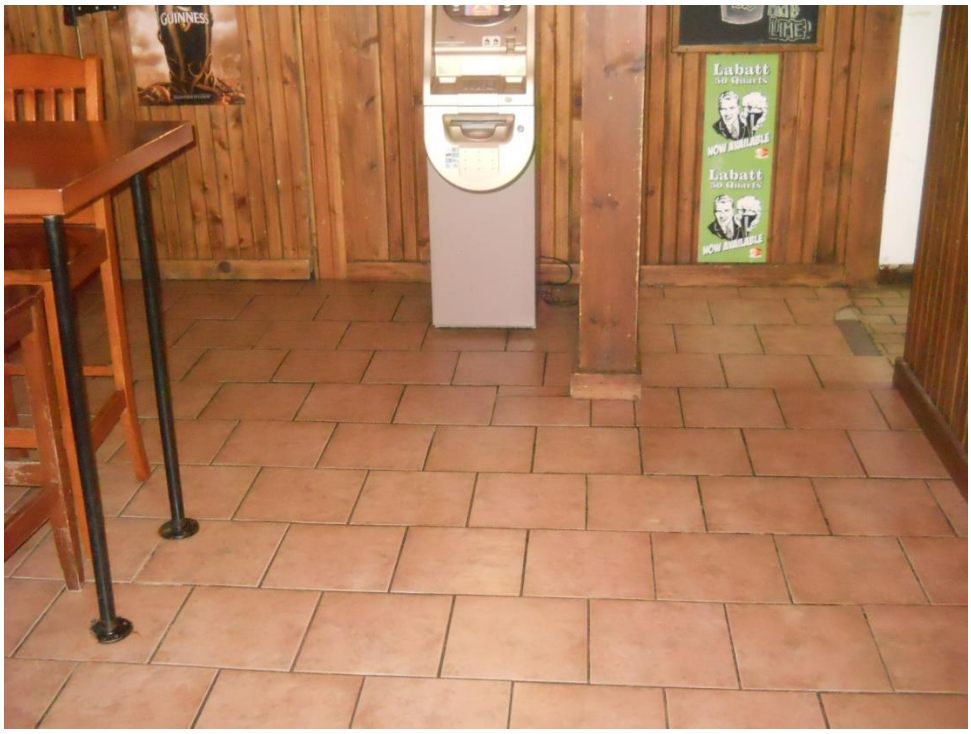
Site Photographs

PE4650 390 Bank Street, Ottawa, ON July 22, 2019

Photograph 1 (Google Street View): View of the site looking west. Photograph illustrates the commercial building on the site.

Photograph 2: View of the back of the subject building, looking east. Photograph illustrates waste storage locations, rear entrances, natural gas connection (far left) and a possible vent pipe encased in protective concrete.

Photograph 3: View of the interior of the basement of the subject building.



Photograph 4: View of the interior of the ground floor of the subject building. Photograph illustrates use of the building as a pub/restaurant.

APPENDIX 2

CHAIN OF TITLE

MECP FREEDOM OF INFORMATION

MECP WELL RECORDS

HLUI RESPONSE

TSSA CORRESPONDENCE

READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4
Email: search@readsearch.com
Tel.: 613-236-0664
Fax: 613-236-3677

ENVIRONMENTAL SEARCH

Patersongroup
Attn: Mandy

BRIEF DESCRIPTION OF LAND:

390 Bank St., Ottawa
Lots 18 and 19, plan 15558, west Bank St.

PIN: 04119-0139

LAST REGISTERED OWNER: URBAN CAPITAL (JAMES STREET) INC.

CHAIN OF TITLE:

Plan 15558 registered Jul 10, 1872
By James MacLaren

Deed CR21483 registered Oct 1, 1883
From James MacLaren to John Christie

Deed CR21485 registered Oct 1, 1883
From John Christie to Robert Blackburn

Deed CR21486 registered Oct 1, 1883
From Charles Magee et al. to Freehold Association of Ottawa

Lot 18

Deed CR21846 registered Jan 9, 1884
From Freehold Association of Ottawa to James Ross

Foreclosure CR33197 registered Aug 30, 1890
From James Ross to Henry Small

Deed CR33714 registered Nov 17, 1890
From Henry Small to Annie Ross

Foreclosure CR42712 registered Nov 24, 1894

From Alex Sparks to Kenneth McDonald

Deed CR77862 registered Jun 5, 1906
From Kenneth McDonald to Robert Cram

Deed CR78905 registered Oct 3, 1906
From Robert Cram to Michael Rock and Mary Kennedy

Deed CR80062 registered Dec 27, 1906
From Michael Rock and Mary Kennedy to William & Francis Cluff

Deed CR83384registered Nov 6, 1906
From William Cluff to Francis Cluff

Deed CR90151 registered May 14, 1909
From Francis Cluff to Charles Rogers, John Stewart, and William Carson

Deed CR93623 Registered Dec 6, 1909
From Charles Rogers, John Stewart, and William Carson to Robert Edey, Israel Cowie and Richard Kemp

Deed CR99833 registered Oct 17, 1910
From Robert Edey, Israel Cowie and Richard Kemp to Theodore St. Germain and James Fraas

Deed CR211079 registered Nov 27, 1933
From Theodore St. Germain and James Fraas to Lillian St. Germain and Gertrude Fraas

Deed CR257316 registered Mar 11, 1946
From Lillian St. Germain and Gertrude Fraas to Arthur Dupont and Ewart Mustard trading as Sunlight Oil Company

Deed CR359238 registered May 21, 1957
From Ewart Mustard to Arthur Dupont

Deed CR369348 registered Mar 5, 1958
From Arthur Dupont to B. P. Canada Limited

Deed CR654100 registered May 31, 1974
From B. P. Oil Limited to Jimmy's Grill Limited

Lot 19

Deed CR21679 registered Nov 21, 1883
From Freehold Association of Ottawa to Margaret Bobier

Tax Deed CR30905 registered Aug 20, 1889
From City of Ottawa to John Bobier

Deed CR32404 registered April 24, 1890

From John Bobier to Henry Howell

Deed CR32512 registered May 7, 1890
From Henry Howell to John Bobier

Vesting Order CR57908 registered Jun 23, 1900
To William Crain

Deed CR61047 registered May 25, 1901
From William Crain to Harry Harwood

Deed CR63062 registered Jan 11, 1902
From Harry Harwood to Samuel Paddington

Deed CR103174 registered Mar 31, 1911
From Harry Hardwood to William Thomas Charleson

Deed CR166869 registered Dec 26, 1921
From estate of William Thomas Charleson to Frederick Huul

Deed CR169506 registered Jun 11, 1923
From Frederick Huul to Maud Kidd

Foreclosure CR201978 registered Oct 16, 1930
From Maud Kidd estate of Harry Harwood

Deed CR256119 registered Dec 17, 1945
From estate of Harry Harwood to David and Annie Ain

Deed CR294119 registered Aug 16, 1951
From David and Annie Ain to Gertrude Sutherland

Deed CR296543 registered Nov 19, 1951
From Gertrude Sutherland to Agnes Abrahams

Deed CR307075 registered Dec 30, 1952
From Agnes Abrahams to Thomas Hum and William Roy

Lease CR395026 registered Sep 23, 1959
From Thomas Hum and William Roy trading as H & P Realty Company to Jimmy's Grill Limited

Deed CR514281 registered Aug 18, 1966
From Thomas Hum and William Roy to Leon Kleiner and Harry Levine

Deed CR520405 registered Jan 9, 1967
From Harry Levine and Leon Kleiner to Jimmy's Grill Limited

All

Deed CR695420 registered Aug 31, 1976
From Jimmy's Grill Limited to Arnold Kimmel and Lawrence Hartman

Deed NS28109 registered Dep 8, 1978
From Arnold Kimmel and Lawrence Hartman to Jimmy's Grill (1976) Ltd.

Deed LT1012653 registered Nov 25, 1996
From Jimmy's Grill (1976) Ltd. to 1189669 Ontario Ltd.

Power of Sale LT1105291 registered Feb 13, 1998
From National Trust Company to 176929 Canada Inc.

Deed OC1337765 registered Feb 29, 2012
From 176929 Canada Inc. .to Urban Capital (James Street) Inc.

Leases

NS158788 – Aug 5, 1982 to 110814 Canada Ltd.
NS275465 – Feb 11, 1985 to William Moreland

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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

Ontario

June 27, 2019

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5

Dear Mandy Witteman:

RE: ***Freedom of Information and Protection of Privacy Act* Request**
Our File # A-2019-04414, Your Reference PE4650

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of $5.00 (non-refundable application fee), along with your $30.00 deposit.

The search is being conducted on the following: 390 Bank Street, Ottawa. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Victoria Partosa at victoria.partosa@ontario.ca.

Yours truly,

Janet Dadufalza
Manager, Access and Privacy

Go Back to Map

Well ID

Well ID Number: 7218928
Well Audit Number: *Z163980*
Well Tag Number: *A136699*

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

Well Location

Address of Well Location	356 MACLAREN STREET
Township	NEPEAN TOWNSHIP
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445678.00 Northing: 5029243.00
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				0 m	.95 m
GREY	SAND	GRVL	FILL	.95 m	.53 m
BRWN	SAND		FILL	.53 m	1.52 m
BRWN	SILT	CLAY	WTHD	1.52 m	3.51 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
.75 m	1.5 m	BENTONITE	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
SSA	Monitoring

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
3.18 cm	PLASTIC	0 m	3.05 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
3.8 cm	PLASTIC	3.05 m	

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

Results of Well Yield Testing

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

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			

Go Back to Map

Well ID

Well ID Number: 7239266
Well Audit Number: *C19500*
Well Tag Number: *A122871*

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

Well Location

Address of Well Location	
Township	NEPEAN TOWNSHIP
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445732.00 Northing: 5029042.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7328

Results of Well Yield Testing

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

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	

Ontario Ministry of the Environment

Well Tag Number: A 019061

A 019061

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 1

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Address of Well Location (County/District/Municipality): 408 BANK STREET | Township | Lot | Concession

RR#/Street Number/Name | City/Town/Village: OTTAWA | Site/Compartment/Block/Tract etc.

GPS Reading | NAD: 83 | Zone: 18 | Easting: 445641 | Northing: 5029106 | Unit Make/Model: GARMIN GPS | Mode of Operation: ☐ Undifferentiated ☐ Averaged ☑ Differentiated, specify: 3D

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
LT BROWN	SAND		SAND	0	0.2
DK BROWN	SAND	SILT, GRAVEL	SAND, SILTY TRACE GRAVEL	0.2	2.0
GREY	CLAY	SILT	CLAY, SILTY	2.0	5.4

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	5.4	10

Water Record

Water found at 3.4 Metres / Kind of Water

- ☐ m ☑ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ☐ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ☐ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was
☑ Clear and sediment free
☐ Other, specify

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
5cm ∅	☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized	0.5	0	2.2
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
∅		10	2.2	5.4
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ____hrs +____ min	2		2	
Final water level end of pumping ____metres	3		3	
Recommended pump type. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ____metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
TEST HOLE	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☐ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	01.8	BENTONITE	0.01 m³

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☑ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☑ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☑ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: GEORGE DOWNING ESTATE DRILLING | Well Contractor's Licence No.: 1844

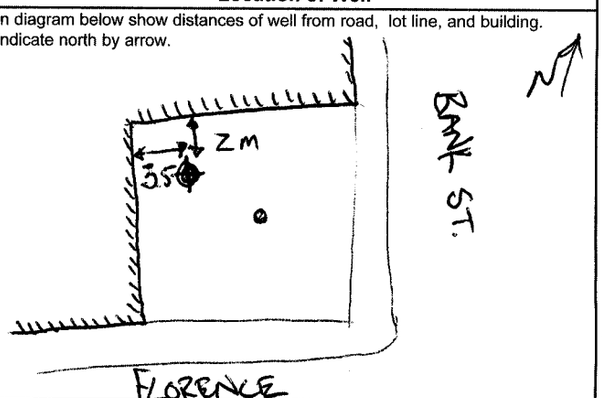
Business Address (street name, number, city etc.): 410 RUE PRINCIPAL GRENVILLE SUR LA ROUGE.

Name of Well Technician (last name, first name): D. L. WARNER | Well Technician's Licence No.: 3236

Signature of Technician/Contractor: X | Date Submitted: YYYY 2005 MM 12 DD 23

Location of Well

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



Audit No. Z 19282 | Date Well Completed: YYYY 2005 MM 12 DD 09

Was the well owner's information package delivered? ☑ Yes ☐ No | Date Delivered: YYYY 2005 MM 12 DD 23

Ministry Use Only

Data Source | Contractor: 1844

Date Received: JAN 06 2006 | Date of Inspection: YYYY MM DD

Remarks | Well Record Number

0506E (08/03)

Contractor's Copy ☐ Ministry's Copy ☑ Well Owner's Copy ☐

Cette formule est disponible en français

Go Back to Map

Well ID

Well ID Number: 7246842
Well Audit Number: *Z208884*
Well Tag Number: *A165621*

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

Well Location

Address of Well Location	296 BANK ST.
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445519.00 Northing: 5029299.00
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				0 ft	1 ft
GREY	CLAY	SILT		1 ft	10 ft
	TILL			10 ft	20 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE/FLUSHMOUNT	
1 ft	9 ft	BENSEAL	
9 ft	20 ft	FILTER SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring and Test Hole

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
1.38 inch	PLASTIC	0 ft	10 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
1.06 inch	PLASTIC	10 ft	20 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

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

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			

Go Back to Map

Well ID

Well ID Number: 7246843
Well Audit Number: *Z208885*
Well Tag Number: *A163032*

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

Well Location

Address of Well Location	296 BANK ST.
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445519.00 Northing: 5029299.00
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		HARD		0 ft	1 ft
GREY	CLAY	SILT	SOFT	1 ft	10 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE/FLUSHMOUNT	
1 ft	2.5 ft	BENSEAL	
2.5 ft	10 ft	FILTER SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	
	Monitoring and Test Hole

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
1.38 inch	PLASTIC	0 ft	3 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
1.66 inch	PLASTIC	3 ft	10 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

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

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			

Go Back to Map

Well ID

Well ID Number: 7295729
Well Audit Number: *Z206496*
Well Tag Number: *A182829*

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

Well Location

Address of Well Location	366 382 BANK STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445570.00 Northing: 5029192.00
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	GRVL	SAND	SOFT	0 m	2.74 m
GREY	SILT	CLAY	SOFT	2.74 m	3.96 m
GREY	SILT	CLAY	SOFT	3.96 m	5.79 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	2.44 m	BENSEAL	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.74 m	5.79 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
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			

Go Back to Map

Well ID

Well ID Number: 7295730
Well Audit Number: *Z206497*
Well Tag Number: *A189880*

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

Well Location

Address of Well Location	366 382 BANK STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445582.00 Northing: 5029178.00
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	GRVL	SAND		0 m	2.74 m
GREY	SILT	CLAY	SOFT	2.74 m	3.46 m
GREY	SILT	CLAY	WBRG	3.46 m	5.79 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	2.44 m	BENSEAL	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.74 m	5.79 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
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			

Go Back to Map

Well ID

Well ID Number: 7295731
Well Audit Number: *Z206498*
Well Tag Number: *A189879*

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

Well Location

Address of Well Location	366 382 BANK STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445584.00 Northing: 5029168.00
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	GRVL	SAND	DRY	0 m	2.74 m
GREY	SILT	CLAY		2.74 m	3.96 m
GREY	SILT	CLAY	SOFT	3.96 m	5.79 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	2.44 m	BENSEAL	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.74 m	5.79 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
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			

Go Back to Map

Well ID

Well ID Number: 7295732
Well Audit Number: *Z206499*
Well Tag Number: *A189788*

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

Well Location

Address of Well Location	366 382 BANKS STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445593.00 Northing: 5029168.00
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	GRVL	SAND	SOFT	0 m	2.13 m
GREY	SILT	CLAY	SOFT	2.13 m	3.96 m
GREY	SILT	CLAY	WBRG	3.96 m	5.79 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	2.44 m	BENSEAL	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.79 m	5.79 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
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			

Ontario Ministry of the Environment

Well A 070252 (or Print Below)
A070252

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

[redacted]

7, 911 Florence St.

County/District/Municipality: Carleton County | City/Town/Village: Ottawa | Province: Ontario | Postal Code: K2P0W6

UTM Coordinates NAD 83 | Zone: 18 | Easting: 445461 | Northing: 5079169 | GPS Unit Make: Garmin | Model: Etrex | Mode of Operation: ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify

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

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	To
Brn	fill	Sand / Bricks	soft dry	0	2.44
Grey	clay		soft, moist	2.44	4.57
Grey	clay		soft, wet	4.57	5.79

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0	2.44	Bensal	0.0112
2.44	5.79	Sand	0.0154

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Rotary (Air) ☐ Digging ☐ Air percussion ☐ Boring ☒ Other, specify Geoprobe

Water Use

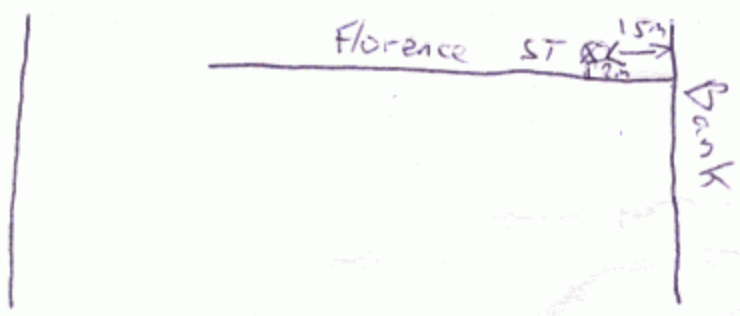
☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☒ Test Hole ☒ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Status of Well

☐ Water Supply ☐ Dewatering Well ☒ Observation and/or Monitoring Hole ☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Alteration (Construction) ☒ Test Hole ☐ Abandoned, Poor Water Quality ☐ Other, specify ☐ Recharge Well ☐ Abandoned, other, specify

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided



Date Well Completed (yyyy/mm/dd): 2008/03/05

Was the well owner's information package delivered? ☐ Yes ☒ No

Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd):

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling | Well Contractor's Licence No.: 7241

Business Address (Street No./Name, number, RR): 2-147 West Beaver Creek | Municipality: Richmond Hill

Province: ON | Postal Code: L4B1C6 | Business E-mail Address: jandean@stratasoil.com

Bus. Telephone No. (inc. area code): 9057649304 | Name of Well Technician (Last Name, First Name): Mike Brown

Well Technician's Licence No.: 1-2977 | Signature of Technician | Date Submitted (yyyy/mm/dd): 2008/03/05

Results of Well Yield Testing

Check box if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand-free state

If pumping discontinued, give reason:

Pumping test method

Pump intake set at (Metres)

Pumping rate (Litres/min)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (Metres)

Recommended pump type ☐ Shallow ☐ Deep

Recommended pump depth ____ Metres

Recommended pump rate (Litres/min)

If flowing give rate (Litres/min)

Draw Down Time (Min)	Draw Down Water Level (Metres)	Recovery Time (Min)	Recovery Water Level (Metres)
Static Level		Static Level	
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

Water found at Depth		Kind of Water
	Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
	Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
	Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used

☐ Galvanized ☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete

Screen Used

☐ Galvanized ☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete

No Casing and Screen Used

☐ Open Hole

Disinfected? ☐ Yes ☐ No

Casing and Well Details

Diameter of the Hole (Centimetres): 8.89

Depth of the Hole (Metres): 5.79

Wall Thickness (Metres): 0.0057

Inside Diameter of the Casing (Metres): 0.040

Depth of the Casing (Metres): 2.74

Ministry Use Only

Audit No.: z 62488 | Well Contractor No.:

Date Received (yyyy/mm/dd): MAR 18 2008 | Date of Inspection (yyyy/mm/dd):

Remarks:

0506E (11/2006)

Ministry's Copy

Ontario Ministry of the Environment

Well Tag No. for Master Well *(Place Sticker and/or Print Below)*
A104644 A104644

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

2012 Page 1 of 3

Master Well Owner's and Land Owner's Information

First Name	Last Name	E-mail Address
Toth Equity Limited		

Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
4000 - 381 Kent Street	Ottawa	ON	K2P 2A8	(613) 241-6380

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR)	Township	Lot	Concession
381 Kent st.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation
NAD 83	18	444911	5029035	Garmin	Etrex	☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify

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

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
Brn	Sand	fill	soft, dry	0	1.22
Grey	Clay		soft, dry	1.22	3.96
Grey	Clay		soft, wet	3.96	6.1

Hole Details

Depth (Metres) From	Depth (Metres) To	Diameter (Centimetres)
0	6.1	8.25

Water Use

☐ Public ☐ Industrial ☐ Not used ☐ Other, *specify*
☐ Domestic ☐ Commercial ☐ Dewatering
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☑ Test Hole ☐ Cooling & Air Conditioning

Method of Construction

☐ Cable Tool ☐ Air Percussion ☐ Digging
☐ Rotary (Conventional) ☐ Diamond ☐ Boring
☐ Rotary (Reverse) ☐ Jetting ☑ Other, *specify*
☐ Rotary (Air) ☐ Driving Direct Push

Status of Well

☑ Test Hole ☐ Abandoned, Insufficient Supply
☐ Replacement Well ☐ Abandoned, Poor Water Quality
☐ Dewatering Well ☐ Other, *specify*
☐ Alteration (Construction) ☐ Abandoned, other, *specify*

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From	Depth (Metres) To
4.03	PVC Riser	.368	0	3.1
	PVC Screen		3.1	6.1

No Casing and Screen Used / Static Water Level Test

Open Hole ☐ Yes ☐ No

Static Water Level: ____ Metres

Screen

☐ Galvanized ☐ Steel ☐ Fibreglass ☐ Concrete ☑ Plastic

Outside Diameter (Centimetres)	Slot No.
4.82	10

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0	.31	Concrete / Flushmount	
.31	2.74	Benseal	
2.74	6.1	Sand	

Water Details

Water found at Depth	Kind of Water
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Disinfected ☐ Yes ☐ No If no, provide reason:

Date Master Well Completed *(yyyy/mm/dd)*: 2010/12/02

Cluster Information *(Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)*

Total Wells in Cluster	Please indicate Number of Cluster Well Information Log Sheets Submitted
3	1
Total Wells on this Property: 3	

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.

☑ Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to [redacted]

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling Inc	7141

Business Address (Street No./Name, number, RR)	Municipality
147-2 West Beaver Creek Rd	Richmond Hill

Province	Postal Code	Business E-mail Address
Ontario	L4B1K6	Wrecords@stratasoil.com

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

Well Technician's Licence No.	Signature of Technician	Date Submitted *(yyyy/mm/dd)*
3616		

Ministry Use Only

Audit No.	Well Contractor No.
M 03242	
Date Received *(yyyy/mm/dd)*: JAN 19 2011	Date of Inspection *(yyyy/mm/dd)*
Remarks	

1992 (11/2006)

Ministry's Copy

Ontario Ministry of the Environment

Well Tag No. for Master Well *(Print Well Tag No.)*
A104644 A104644

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

8092 Page 2 of 3

Property Owner's Information

First Name	Last Name	Mailing Address (Street No./Name, RR)	Municipality
Toth Equity Limited		4000-381 Kent Street	Ottawa

Province	Postal Code	E-mail Address	Telephone No. (inc. area code)
ON	K2P 2A8		(613) 241 6380

[redacted]

upon request

Signature of Technician/Contractor

Date *(yyyy/mm/dd)* 2010/12/02

Cluster Well Information

Address of Well Location (Street Number/Name, RR)	Lot	Concession	Township	County/District/Municipality
381 Kent st.				

City/Town/Village	Province	Postal Code	GPS Unit Make	Model	Unit Mode of Operation
ottawa	Ontario		Garmin	Etrex	☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify:

Well # on Sketch	UTM Coordinates Zone	Easting	Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion *(yyyy/mm/dd)*
2	18	445550	5029044	6.1	8.25	Direct Push	PVC	3.1	3.1	6.1	Benseal				2010/12/02
3	18	445480	5029114	6.1	8.25	Direct Push	PVC	3.1	3.1	6.1	Benseal				2010/12/02

Well Contractor and Well Technician Information

Business Name of Well Contractor	Business Address (Street Number/Name, RR)	Municipality	Province
Strata Soil Sampling Inc	147-2 West Beaver creek Rd	Richmond Hill	Ontario

Postal Code	Business Telephone No. *(inc. area code)*	Well Contractor's Licence No.	Business E-mail Address
L4B 1C6	905-764-9301	7241	Wrecords@stratasoil.com

Name of Well Technician (First Name, Last Name)	Well Technician's Licence No.	Date Submitted *(yyyy/mm/dd)*	Signature of Technician
Beatty Brian	T-3616		

Date 1st Well in Cluster Constructed *(yyyy/mm/dd)*	Date Last Well in Cluster Constructed *(yyyy/mm/dd)*
2010/12/02	2010/12/02

Ministry Use Only

Date Received *(yyyy/mm/dd)*	Date Inspected *(yyyy/mm/dd)*
JAN 14 2011	
Audit No. c05908	Remarks m03242

1991 (11/2006) Ministry's Copy

BH10-1 & BH10-2 to address the UST oil base & printing facility previously located at 50 & 52 James Street
BH10-3 - to address dry cleaning facilitres prev. located ~ 80÷100 m NE of the site

Geocycle Inc.
JAN 14 2011

S12067

Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)* A115780

Well Record

Regulation 903 Ontario Water Resources Act

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
320 Gilmour St.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445564	5029134		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brn	Gravel	Sand	Soft, dry	0	.91
Gry	Clay	Silt	Soft, wet	.91	3.96

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	.31	Concrete / flushmount	
.31	.91	Benseal	
.91	3.96	Sand	

Method of Construction

- ☐ Cable Tool
- ☐ Diamond
- ☐ Rotary (Conventional)
- ☐ Jetting
- ☐ Rotary (Reverse)
- ☐ Driving
- ☐ Boring
- ☐ Digging
- ☐ Air percussion
- ☑ Other, specify D. P.

Well Use

- ☐ Public
- ☐ Commercial
- ☐ Not used
- ☐ Domestic
- ☐ Municipal
- ☐ Dewatering
- ☐ Livestock
- ☑ Test Hole
- ☑ Monitoring
- ☐ Irrigation
- ☐ Cooling & Air Conditioning
- ☐ Industrial
- ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
3.45	PVC	.356	0	.91

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.21	PVC	10	.91	3.96

Status of Well

- ☐ Water Supply
- ☐ Replacement Well
- ☑ Test Hole
- ☐ Recharge Well
- ☐ Dewatering Well
- ☑ Observation and/or Monitoring Hole
- ☐ Alteration (Construction)
- ☐ Abandoned, Insufficient Supply
- ☐ Abandoned, Poor Water Quality
- ☐ Abandoned, other, specify
- ☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	3.96	5.71

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling	7214

Business Address (Street Number/Name)	Municipality
147-2 W. Beaver Creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	wrecords@stratasoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
9057649304	Beatty, Brian	3161		2012/01/24

Results of Well Yield Testing

After test of well yield, water was:
- ☐ Clear and sand free
- ☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

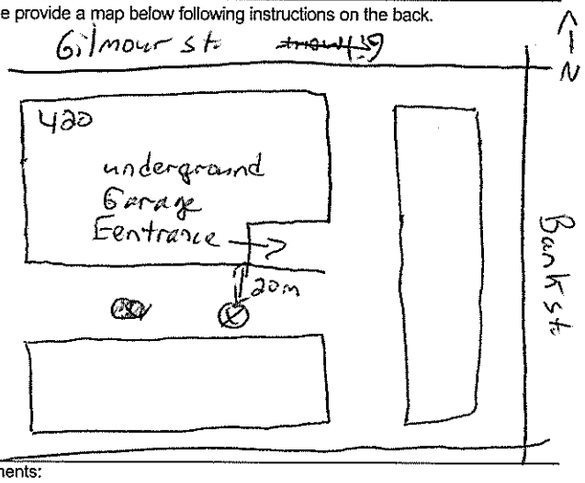
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2012/01/24

Ministry Use Only

Audit No. Z145266

Received JAN 2 1 2012

S12067

Ontario — Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below) A106637 A106637

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☑ Metric ☐ Imperial

Page 2 of 2

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
Minto Apartments	[redacted]		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1051 Baxter Rd Suite 22B	Ottawa	ON	K2C3P2	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
320 Gilmour St.	-		

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445564	5029134		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brn	Gravel	Sand	Soft, dry	0	1.22
Grey	Clay	Silt	Soft, wet	1.22	4.27

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	.31	Concrete / flushmount	
.31	.91	Bensea	
.91	4.27	Sand	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☑ Other, specify D.P.

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☑ Test Hole ☑ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
3.45	PVC	.356	0	1.22

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.21	PVC	10	1.22	4.27

Status of Well

☐ Water Supply ☐ Replacement Well ☑ Test Hole ☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	Other, specify
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	4.27	5.71

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

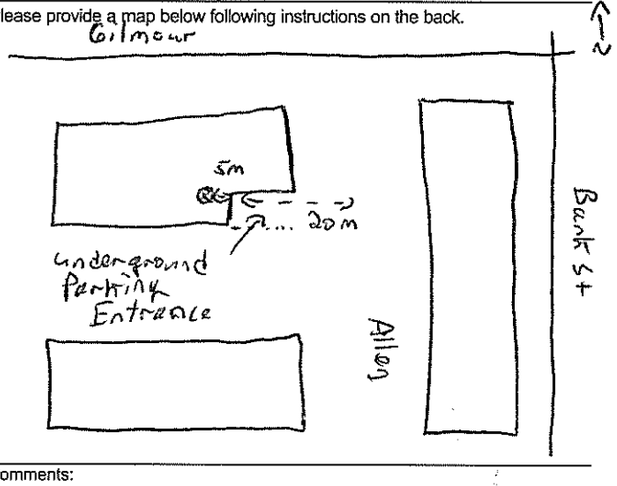
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling	7141

Business Address (Street Number/Name)	Municipality
147-2 W. Beaver creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	wrecords@stratasoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9057649304	Beatty Brian

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3161		2012/04/24

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2012/01/24

Ministry Use Only

Audit No. Z145265

Received APR 24 2012

S12067

Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)* A106638 A106638

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☑ Metric ☐ Imp

Page 3 of 3

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
Minto Apartments	[redacted]		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
1051 Baxter Rd Suite 22B	Ottawa	ON	K2C3P2	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
320 Gilmour St.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445578	5029119		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brn	Gravel	Sand	Soft, dry	0	.91
Gry	clay	silt	Soft, wet	.91	3.66

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*
0	.31	Concrete / flushmount	
.31	.61	Benseal	
.61	3.66	Sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* D. P.

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
3.45	PVC	.356	0	~~3.66~~ 1.61

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.21	PVC	10	~~3.66~~ .61	3.66

Status of Well

☐ Water Supply
☐ Replacement Well
☑ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Other, *specify*
☐ Gas	☐ Fresh ☐ Untested	
☐ Gas	☐ Fresh ☐ Untested	
☐ Gas	☐ Fresh ☐ Untested	

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*
0	3.66	5.71

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

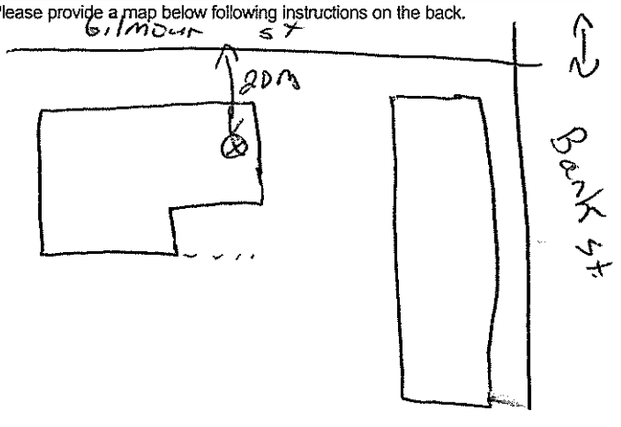
Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling	7241

Business Address (Street Number/Name)	Municipality
147-2 W. Beaver Creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	wrecords@stratasoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9057649304	Beath, Brian

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3161		2017/04/24

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2017/04/24

Ministry Use Only

Audit No. Z145264

Received APR 24 2017

Ontario — Ministry of the Environment

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A131060 A131060

S-12830

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
[redacted]	C/O Minto Apartments Ltd.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
1051 Baxter Rd Suite 22B	Ottawa	ON	K2C3P2	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
21 James St			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445594	5029121		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (*m/ft*) From	To
Brn	Clay	~~soft~~,	Soft	0	1.5
Gry	Clay		soft, wet	1.5	4.57

Annular Space

Depth Set at (*m/ft*) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
0	.31	Concrete / flushmount	
.31	1.22	Bensal	
1.22	4.57	Sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* D.P

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☑ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (*cm/in*)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (*cm/in*)	Depth (*m/ft*) From	To
3.45	PVC	.345	0	1.5

Construction Record - Screen

Outside Diameter (*cm/in*)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (*m/ft*) From	To
4.21	PK	10	1.5	4.57

Status of Well

☐ Water Supply
☐ Replacement Well
☑ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (*m/ft*)	Kind of Water	
☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*
Water found at Depth (*m/ft*) ☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*
Water found at Depth (*m/ft*) ☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*

Hole Diameter

Depth (*m/ft*) From	To	Diameter (*cm/in*)
0	4.57	5.71

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (*m/ft*)

Pumping rate (*l/min / GPM*)

Duration of pumping _____ hrs + _____ min

Final water level end of pumping (*m/ft*)

If flowing give rate (*l/min / GPM*)

Recommended pump depth (*m/ft*)

Recommended pump rate (*l/min / GPM*)

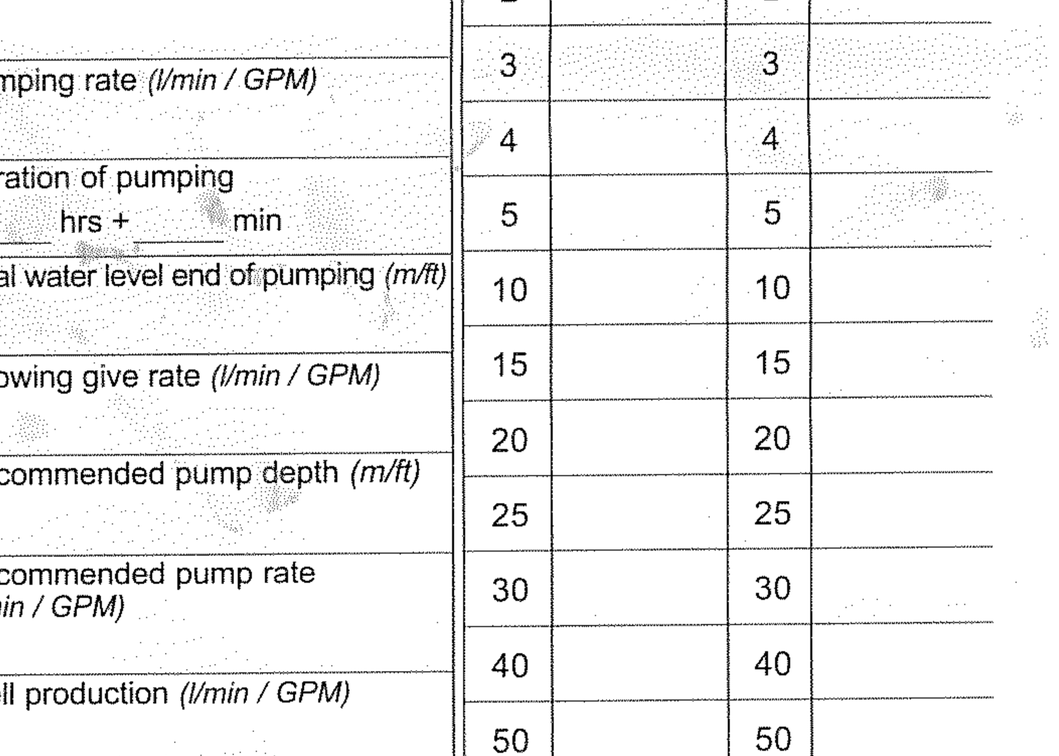
Well production (*l/min / GPM*)

Disinfected? ☐ Yes ☐ No

Draw Down Time (*min*)	Water Level (*m/ft*)	Recovery Time (*min*)	Water Level (*m/ft*)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Drilling Group	7241

Business Address (Street Number/Name)	Municipality
147-2 W. Beaver creek	Richmondhill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	wrecords@stratasoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9057649304	Beatty Brian

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3616		2012 07 27

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2012 07 26

Ministry Use Only

Audit No. Z152937

SEP 04 2012 Received

0506E (2007/12) © Queen's Printer for Ontario, 2007

Ministry's Copy

Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)*: N/A

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
CITY OF OTTAWA C/O	COLALUTI CONSTRUCTION LIMITED		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2562 DEL ZOTTO AVENUE	OTTAWA	ONT	K1T3V7	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
GLADSTONE AVENUE	OTTAWA		

County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA CARLETON	OTTAWA	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445852	5029045		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	2" ABANDONMENT - MONITORING WELL			0'	20'
	* BOREHOLE #12-3				

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*
20'	2'	3/8 HOLE PLUG	1 BAG
2'	0'	BACK FILL	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify* ____

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☒ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify* ____

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To

Construction Record - Screen

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

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, *specify* ROAD CONSTRUCTION ☐ Other, *specify* ____

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth (m/ft) From	Hole Diameter Depth (m/ft) To	Hole Diameter (cm/in)
☐ Gas ☐ Other, *specify* ____	☐ Fresh ☐ Untested			
☐ Gas ☐ Other, *specify* ____	☐ Fresh ☐ Untested			
☐ Gas ☐ Other, *specify* ____	☒ Fresh ☐ Untested			

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify* ____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

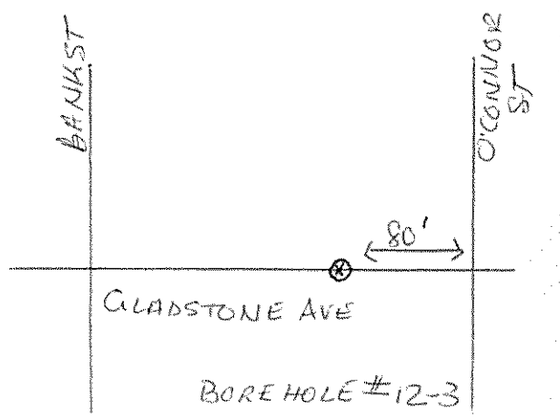
Well production *(l/min / GPM)*

Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
AIR ROCK DRILLING CO. LTD	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
6659 FRANKTOWN ROAD	RICHMOND	ONT	K0A2Z0	

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6138382170	DESAULNIERS, KEN	7174		2013 09 30

Well owner's information package delivered: ☐ Yes ☒ No

Date Package Delivered: ____

Date Work Completed: 2013 09 25

Ministry Use Only

Audit No. Z155230

NOV 12 2013

Ministry's Copy

S-14403

Ontario — Ministry of the Environment

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* **Tag#: A152603** A152603

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	District Realty Corporation		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
50 Bayswater Avenue	Ottawa	ON	K1Y 2E9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
384 McLaurin Rd.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445546	5025231		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
DRY	concrete	gravel,	hard	0	.31
BRN	sand	gravel	loose	.31	2.13
GRY	clay	silt	soft	2.13	6.1

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.31	concrete/flushmount	
.31	2.74	bentonite	
2.74	6.1	filter sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* Direct Push

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
3.45	PVC	.356	0	3.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.21	PVC	10	3.1	6.1

Status of Well

☐ Water Supply
☐ Replacement Well
☑ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From (m/ft)	Depth To (m/ft)	Diameter (cm/in)
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	0	6.1	5.71
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping _____ hrs + _____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

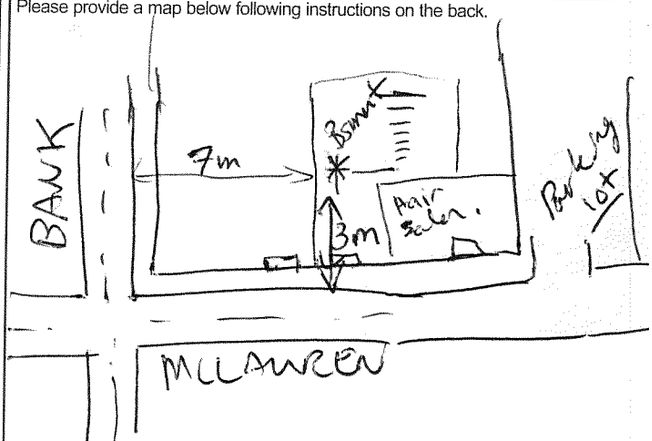
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Drilling Group	7241

Business Address (Street Number/Name)	Municipality
147 West Beaver Creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1G6	wellrecords@stratasoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
905 764-9304	McCoy, James

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3656		2013 10 15

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2013 08 15

Ministry Use Only

Audit No. Z 177968

Received NOV 28 2013

S-14763

Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)*
Tag#: A150791 A150791

Well Record
Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☐ Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	District Realty Corporation		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
50 Boyswater Avenue	Ottawa	ON	K1Y2E9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
384 McLaurin Rd.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445561	5029217		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
GRY	concrete	gravel	hard	0	.31
BRN	sand	gravel	soft, loose	.31	1.82
GRY	clay	silt	soft	1.82	4.57

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.31	concrete/Flushmount	
.31	2.74	bentonite	
2.74	4.57	filter sand	

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free ☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* Direct Push

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
3.45	PVC	.356	0	3.1

Status of Well

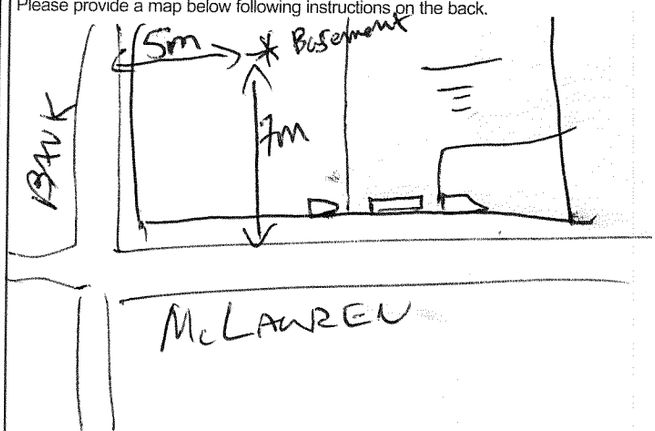
☐ Water Supply
☐ Replacement Well
☑ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.24	PVC	10	3.1	4.57

Map of Well Location

Please provide a map below following instructions on the back.



Water Details

Water found at Depth (m/ft)	Kind of Water	Gas	Other, *specify*
	☐ Fresh ☐ Untested	☐	
	☐ Fresh ☐ Untested	☐	
	☐ Fresh ☐ Untested	☐	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	5.71	4.57

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Drilling Group	7247

Business Address (Street Number/Name)	Municipality
147 West Beaver Creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	wrecords@stratasoil.com

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

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3656		2013 10 15

Comments:

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2013 10 15

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Audit No. Z177967
NOV 28 2013

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Ontario — Ministry of the Environment

Well Record

Regulation 903 Ontario Water Resources Act

Well Tag No. *(Place Sticker and/or Print Below)*: N/A

Measurements recorded in: ☐ Metric ☒ Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
CITY OF	OTTAWA c/o Colautti Construction Limited		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2562 DelZotto Avenue	Ottawa	Ont	K1T 3V7	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
GLADSTONE AVENUE	OTTAWA	X	X

County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	OTTAWA	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445766	5028987		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	2" Monitoring Well Abandonment			0'	20'

* Borehole 12-1 *
* Contract 13179 - ISD# 13-5116 *

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
20'	2'	3/8 Hole Plug	1 Bag
2'	0'	Back Fill	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To

Construction Record - Screen

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

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, *specify* CONSTRUCTION
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*
Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*
Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter *(cm/in)*

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

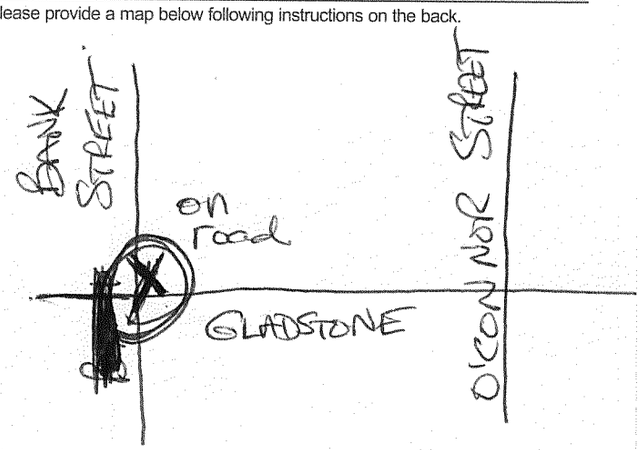
Well production *(l/min / GPM)*

Disinfected? ☒ Yes ☐ No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: Borehole 12-1

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
R.R. Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
Rt 1	Richmond	ONT	K0A 2Z0	

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
613 838 9170	Desaulniers Ken	T4		2014 05 30

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2014 05 20

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Audit No. Z 166933

Received JUN 24 2014

506E (2007/12)

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Well Record

Regulation 903 Ontario Water Resources Act

Well Tag No. *(Place Sticker and/or Print Below)* A 173762

Tag#: A173762

5-16269 Page ____ of ____

Measurements recorded in: ☒ Metric ☐ Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	1618721 Ontario Inc. The Hair Loft / Le Spa		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
429 MacLaren Street	Ottawa	ON	K2P 0H7	(613) 232-0202

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
429 McLaren			

County/District/Municipality	City/Town/Village	Province	Postal Code
		Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445410	5024217		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BRN	Fill	Gravel Sand	Soft	0	1.22
BRN	Silt Sand	Trace Clay	Soft	1.22	3.1
BRN	Silt Clay		Soft	3.1	4.88
GRY	Clay	Silt	Soft	4.88	6.1

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.31	concrete/flushmount	
.31	2.74	bentonite chips	
2.74	6.1	Filter Sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☒ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☒ Other, *specify* direct push

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☒ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.20	PVC	.390	0	3.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.03	PVC	10	3.1	6.1

Status of Well

☐ Water Supply
☐ Replacement Well
☒ Test Hole
☐ Recharge Well
☐ Dewatering Well
☒ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Other, specify
	☐ Fresh ☐ Untested ☐ Gas	
	☐ Fresh ☐ Untested ☐ Gas	
	☐ Fresh ☐ Untested ☐ Gas	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	6.1	15.32

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

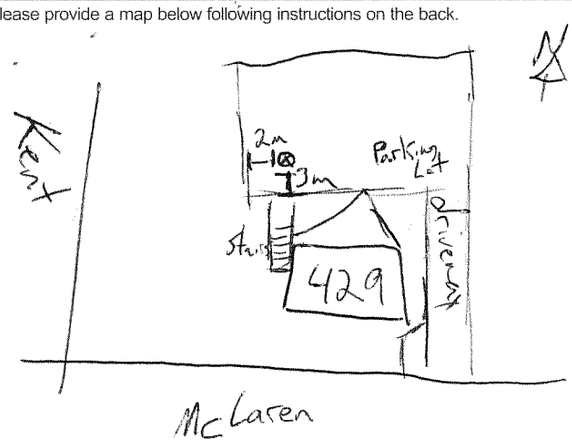
Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Drilling Group	7241

Business Address (Street Number/Name)	Municipality
165 Shields Ct	Markham

Province	Postal Code	Business E-mail Address
ON	L3R 5A4	wrecords@stratagoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
905 764 9304	Halladay Phil

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3832		2014/11/06

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2014/106

Ministry Use Only

Audit No Z 188288

DEC 15 2014 Received

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Go Back to Map

Well ID

Well ID Number: 7295733
Well Audit Number: *Z206495*
Well Tag Number: *A182830*

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

Well Location

Address of Well Location	366 382 BANK STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445605.00 Northing: 5029135.00
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	GRVL	SAND		0 m	2.44 m
GREY	SILT	CLAY	SOFT	2.44 m	3.96 m
GREY	SILT	CLAY	WBRG	3.96 m	5.79 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	2.44 m	BENSEAL	
2.44 m	5.79 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.74 m	5.79 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
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			

Go Back to Map

Well ID

Well ID Number: 7295734
Well Audit Number: *Z206494*
Well Tag Number: *A182831*

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

Well Location

Address of Well Location	366 382 BANKS STREET
Township	OTTAWA CITY
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445606.00 Northing: 5029117.00
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	GRVL	SAND		0 m	1.83 m
BLUE	CLAY	SILT	SOFT	1.83 m	3.35 m
BLUE	SAND	MUCK	SOFT	3.35 m	4.88 m
GREY	SILT	CLAY	SOFT	4.88 m	5.49 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	FLUSHMOUNT/ CONCRETE	
.31 m	1.83 m	BENSEAL	
1.83 m	5.49 m	SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Direct Push	Monitoring Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4.03 cm	PLASTIC	0 m	2.44 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	2.44 m	5.49 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

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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	Draw Down Water	Recovery	Recovery Water

June 26, 2019
File: PE4650-HLUI

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

Subject: **Authorization Letter, HLUI Search**
Phase I-Environmental Site Assessment
390 Bank St
Ottawa, Ontario

Dear Sir,

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

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

Name of Company/Property Owner: Urban Capital (James St) Inc.

Name of Representative/Owner David Wex

Signature of Representative/Owner

Date Aug 8, 2019

Mandy Witteman

From: Public Information Services <publicinformationservices@tssa.org>
Sent: June-27-19 8:52 AM
To: Mandy Witteman
Subject: RE: Search records Request (PE4650)

No Records Found

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are **no fuel storage tanks records** in our database at the subject address(es).

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Kind regards,

Connie Hill | Public Information Agent
Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3383 | Fax: +1-416-231-6183 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: June 27, 2019 8:36 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search records Request (PE4650)

Good Morning,

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

Bank St: 390, 394, 403, 366, 382
Gilmour St: 420
James St: 20, 27, 25, 30

Thank you

Cheers,

Mandy Witteman

patersongroup
solution oriented engineering
over 60 years servicing our clients

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 339
Cell: (403) 921-1157

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

POSITION

Intermediate Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
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

2009 – 2014
Carleton University
Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009
SLR Consulting Limited
Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

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