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Phase I Environmental Site Assessment

Residential Properties 398, 402, and 406 Roosevelt Avenue - Ottawa

Prepared For

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Domicile Developments to conduct a Phase I Environmental Site Assessment (ESA) of 398, 402, and 406 Roosevelt Avenue in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

The historical research indicated that the subject property was first developed before 1928 with the existing residential dwellings. No PCAs were identified on the Phase I Properties.

Several off-site historical PCAs were present along Richmond Road, including dry cleaning establishments (376, 379, 384, and 397 Richmond Road), and retail fuel outlets and/or automotive service garages (372, 396, 410, 415, 420 Richmond Road, and 376 Madison Avenue). These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances of over 100 m in combination with the results of the subsurface investigation previously conducted for the subject properties. Paterson had also conducted previous investigations within the Phase I study area and based on a review of our files, no potential environmental concerns were identified with regards to potential off-site impacts to the Phase I Properties.

At the time of the site visit, no PCAs were identified on the Phase I Properties. One existing PCA was observed within the Phase I study area along Richmond Road - a dry cleaners at 434 Richmond Road. Based on their separation distances and the subsurface investigation carried out on the Phase I Properties, it is not considered to represent an APEC on the subject land.

A Phase II Environmental Site Assessment was conducted on the subject property; no environmental concerns were noted in the soil or groundwater tested.

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

Recommendations

It is our understanding that the Phase I Properties are to be redeveloped with a condominium building. Prior to the demolition of the existing residential dwellings, a designated substance survey (DSS) must be conducted in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

1.0 INTRODUCTION

At the request of Domicile Developments Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for 398, 402, and 406 Roosevelt Avenue, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA by Mr. David Renfroe of Domicile Developments. The offices of Domicile Developments are located at 1-371A Richmond Road, Ottawa, Ontario. Mr. Renfroe can be reached by telephone at (613) 728-0388.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation 153/04 as amended by O.Reg. 269/11 (Environmental Protection Act), and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Addresses:	398, 402, and 406 Roosevelt Avenue, Ottawa, Ontario.		
Legal Descriptions:	Plan 114, Lot 8; Plan 114, Lot 6; Plan 114, Lot 5		
Property Identification Numbers:	03971-0276; 03971-0275; 03971-0274		
Location:	The subject site is located on the west side of Roosevelt Avenue, north of Richmond, in the City of Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following the body of this report.		
Latitude and Longitude:	45°23'27" N, 75°45'27" W.		
Site Description:			
Configuration:	Rectangular		
Site Area:	1,385 m ² (approximate)		
Zoning:	R3S – Residential, third density		
Current Use:	The Phase I Properties are currently occupied by three (3) residential dwellings and one (1) private garage.		
Services:	The subject site is in a municipally serviced area.		

3.0 SCOPE OF INVESTIGATION

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

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- □ Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of Ontario Regulation 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- □ Provide a preliminary environmental site evaluation based on our findings;
- □ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

Based on the city directories and air photo research, it is our interpretation that the subject properties were first developed at some time before 1928, with the existing residential structures.

Fire Insurance Plans

Fire Insurance Plans (FIPs) dated 1956 were reviewed for the Phase I study area.

According to the FIPs, the subject properties were developed with three (3) residential dwellings each with a detached garage. Properties to the west and north and to the northeast of the Phase I Property along Roosevelt Avenue and Berkley Avenue were also developed with residential dwellings.

Properties along Richmond Road to the south, southwest, and southeast were primarily used for commercial purposes, including potentially contaminating activities. A retail fuel outlet was located at 415 Richmond Road (adjacent to the south of 406 Roosevelt Avenue), and automotive service garages at 418 Richmond Road (which fronts onto Byron Avenue) and 428 Richmond Road (with underground fuel storage tanks, on the south side of Richmond Road).

As further discussed in the conceptual site model (CSM), based on a Phase II ESA completed for the Phase I Properties, these PCAs are not considered to have resulted in areas of potential environmental concern (APECs) on the Phase I Properties.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1900 through 2011. Based on the directory review, the subject properties have been listed since at least 1933 and have always been listed as private individuals.

Immediately adjacent properties to the north and west have always been listed as residential. The property to the east, across Roosevelt Avenue (403 Richmond Road) and the property to the south of the subject site (415 Richmond Road) have been listed as commercial since at least the 1940s. The property at 415 Richmond Road was listed as a retail fuel outlet in 1946, 1949, 1961, 1971, and 1989.

Other properties within the Phase I study area have been used for a combination of residential and commercial purposes, with commercial properties primarily along Richmond Road. Based on the city directory review, no potentially contaminating activities (PCAs) have been listed at the Phase I Property.

Off-site PCAs identified within the Phase I study area include a retail fuel outlet at 415 Richmond Road, an automotive service garage at 420 and 424 Richmond Road, retail fuel outlets at 575 Byron Avenue and 372 Richmond Road, a printers at 416 Richmond Road, automotive service garages at 396 and 420 Richmond Road, dry cleaners at 376, 379, 384, and 397 Richmond Road, and an automotive machine shop at 376 Madison Avenue. As further discussed in the CSM, these PCAs are not considered to have resulted in APECs on the Phase I Property.

Phase II Environmental Site Assessment

A Phase II ESA was previously carried out at the subject site for due diligence purposes to assess potential impacts from the former retail fuel outlet located immediately south of the site. No soil or groundwater contaminant concentrations were detected above the MOECC standards for the property. The findings of the Phase II ESA do not suggest any impact to the subject land from the historical fuel outlets / service garages located to the south along Richmond Road.

Two (2) boreholes were placed on the subject site. Bedrock was encountered at depths ranging from approximately 0.7 to 1.3 m below grade. Overburden material consisted of shallow topsoil and/or silty sand. Bedrock was cored at both locations, to a depth of approximately 7.6 m below grade.

Plan of Survey

A plan of survey had not been finalized for the subject site at the time of issuing this report.

Previous Engineering Reports

Based on a review of our files, Paterson has conducted several investigations along Richmond Road and Roosevelt Avenue, within the Phase I study area. No environmental concerns regarding the potential for off-site impacts to the Phase I Properties were identified.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on September 26, 2017. The Phase I Properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted on September 26, 2017. No PCB waste storage sites are located within the Phase I study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided by the response, the MOECC response will be forwarded to the client.

MOECC Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified within 1 km of the subject site.

MOECC Incident Reports

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

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided, the MOECC response will be forwarded to the client once it has been received.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided, the MOECC response will be forwarded to the client once it has been received.

MOECC Brownfields Environmental Site Registry

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

An RSC was filed for three properties within the Phase I study area: 575 Byron, 420 Berkley Avenue, and 401 Golden Avenue located approximately 40 m south of the Phase I Property. The historical retail fuel outlet and automotive service garage are considered to be Potentially Contaminating Activities. However, based on the results of the previous subsurface investigation/remediation, the PCAs are not considered to represent APECs on the subject site.

MOECC Waste Disposal Site Inventory

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

Areas of Natural Significance (ANSIs)

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on September 26, 2017. The search did not reveal any natural features or areas of natural significance on the Phase I Property or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on September 26, 2017 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 Phase I Property or for the immediately adjacent and neighbouring properties within the Phase I study area. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

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

City of Ottawa Historical Land Use Inventory (HLUI)

A request for information from the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database for the Phase I Property was submitted to the City of Ottawa on October 3, 2017. At the time of issuing this report, a response had not been received from the City. Should the response contain pertinent information, the client will be notified.

4.3 Physical Setting Sources

Aerial Photographs

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

- 1928 The Phase I Properties are occupied by what appear to be the existing residential dwellings. The properties to the south and across Roosevelt Avenue to the east are vacant, the land to the north appears to be developed with residential dwellings. Properties along Richmond Road appear to be occupied by mixed commercial and residential structures.
- 1945 (Poor scale) The Phase I Properties are occupied by residential dwellings. The properties to the west and to the east across Roosevelt Avenue appear to be vacant. The property to the south appears to be occupied by a structure.
- 1968 The Phase I Properties appear to remain unchanged from the previous photograph. The adjacent properties to the west have been developed with residential dwellings. The property to the east, across Roosevelt Avenue, is occupied by a parking lot and commercial building. The property to the south is a retail fuel outlet. The land on either side of Richmond Road is developed with what appear to be commercial businesses.
- 1976 (Poor quality) No apparent changes have been made to the Phase I Properties or surrounding properties.
- 1984 (Poor quality) No apparent changes have been made to the Phase I Properties or surrounding properties.
- 1995 An addition has been constructed at the rear of 402 Roosevelt Avenue. No other apparent changes have been made to the Phase I Properties or surrounding properties.
- 2005 (City of Ottawa Website) No significant changes appear to have been made to the subject properties. The adjacent property to the south has been redeveloped with a commercial building.

2014 (City of Ottawa Website) The Phase I Properties appear as they exist today, with no significant changes from the previous photograph. The property addressed 420 Berkley Avenue has been developed with a condominium building to the southwest of the subject site. The properties at 401 Golden Avenue and 410 Richmond Road have been redeveloped with condominium buildings with commercial units on the first level.

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

Topographic Maps

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

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." The subject site is located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden consists of plain till with a drift thickness reported to range from 2 to 3 m across the site.

Water Well Records

A search of the MOECC's online database of well records was conducted for the Phase I ESA study area. No well records were identified for the Phase I Properties. Well records identified for the properties within the Phase I study area include the following: 1 domestic well (on Berkley Avenue), 21 well abandonment records (for 379 Wilmont Avenue and 335 Roosevelt Avenue), 8 test holes (at 337, 380, 401,

and 465 Richmond Road, and 389 Wilmont Avenue), and 5 monitoring wells (at 389 Wilmont Avenue). The potable well on Berkley Avenue was drilled to 30.5 m below grade and was installed within limestone bedrock. The well was installed in 1970 and is not expected to be in current use. The monitoring and test hole wells were installed in 2011, 2012, and 2013.

Monitoring well records are for the property addressed 389 Wilmont Avenue. The well abandonment records are for properties immediately adjacent to 389 Wilmont Avenue. Based on the distances of these properties from the subject land, they are not considered to have had the potential to impact the Phase I Properties. Copies of the well records are provided in Appendix 2.

Water Bodies and Areas of Natural Significance

No water bodies are present within the Phase I study area. The Ottawa River is the closest significant water body and is present approximately 338 m west of the Phase I Properties. No areas of natural significance are known to exist within the Phase I study area.

5.0 INTERVIEWS

Property Owner Representatives

The property owners/residents of 402 and 406 Roosevelt Avenue were interviewed during the site visit.

The resident of 402 Roosevelt Avenue has occupied the house for 10 years, and reported that it had been heated with a gas furnace since the time it was purchased. He indicated that the furnace and air conditioning unit had been replaced in the last year, and the addition at the rear had been completed by previous owners circa 2000.

The resident of 406 Roosevelt Avenue grew up on the Phase I Property and is familiar with the use of the subject land since the 1970s. The resident indicated that the property was formerly heated with fuel oil, and that the tank was located in the basement.

The information obtained in these interviews is generally consistent with site information obtained from other sources and is considered to be valid.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A representative from the Environmental Department of Paterson Group conducted a site visit on October 5, 2017. Weather conditions were partly cloudy with a temperature of approximately 22° C. At the time of the site visit, the neighbouring properties within the Phase I study area were also observed from publicly accessible areas.

6.2 Specific Observations at Phase I Properties

Buildings and Structures

Each address is occupied by a residential dwelling. The property at 398 Roosevelt also has a detached private garage structure, and the property at 406 Roosevelt has a small storage shed. The dwellings are two stories with full basements and are constructed with a concrete foundation. Based on aerial photographs, all three dwellings appear to have been constructed before 1928. The dwellings are all heated with natural gas fired furnaces.

The dwelling at 398 Roosevelt Avenue is finished on the exterior with brick and decorative pebble, and has a peaked roof covered with asphaltic shingles. The detached private garage, constructed with a concrete slab-on-grade foundation, is finished with the same decorative pebble and a shingled roof. Based on aerial photographs, the private garage appears to have been also constructed before 1928.

The dwelling at 402 Roosevelt Avenue is finished on the exterior with stone and metal siding, and has a peaked roof covered with asphaltic shingles. The entire backyard as well as the driveway are paved with interlock stone. Based on aerial photos, the dwelling was constructed before 1928, possibly with a private garage at the rear of the dwelling (poor quality photo).

The dwelling at 406 Roosevelt Avenue is finished on the exterior with brick and decorative pebble, and has a peaked roof covered with asphaltic shingles. The storage shed at the rear of the dwelling is constructed with wood. Based on aerial photos, the dwelling was constructed before 1928, and a private garage was present at the rear of the dwelling, adjacent to 415 Richmond Road, from at least 1928 to 2011. The garage is no longer present.

No other buildings or structures were present on the Phase I Properties at the time of the site visit.

Underground Utilities

Underground service locates were completed for the subject site prior to the Phase I ESA. Underground utilities on the Phase I Properties include municipal water and sewer services, gas, and telecommunications which enter the property from the east, off of Roosevelt Avenue.

Site Features

The subject structures are centrally situated on the Phase I Properties. Each property has a paved asphalt or interlock stone driveway, with landscaped areas at the front along Roosevelt Avenue, and grass or interlock stone at the rear.

Site drainage primarily consists of surficial infiltration and runoff to Roosevelt Avenue. Some standing water was present in the roadway in front of 398 Roosevelt Avenue at the time of the site visit. No areas of standing water were observed on any of the Phase I Properties at the time of the site visit. No storm sewer catch basins were observed on Roosevelt Avenue near the subject site.

No aboveground storage tanks (ASTs) or evidence of underground storage tanks (USTs) were observed on the exterior of the property at the time of the site visit. Other than underground utilities, discussed above, there was no evidence of belowground structures on the Phase I Property observed at the time of the site visit.

No evidence of recent excavation was observed on the exterior of the subject site. No evidence of current or former railway or spur lines on the subject land was observed at the time of the site visit. There were no unidentified substances observed on the exterior of the Phase I Properties.

As previously discussed, the Phase I Properties and surrounding lands are serviced with municipal water. There were no potable wells observed on the Phase I Properties or on other properties within the Phase I study area, at the time of the site visit.

The above-noted site features are shown on Drawing PE4046-1 - Site Plan.

Fill Material

No obvious signs of fill material were noted at the time of the site visit. Some fill material was identified on the subject site during the Phase II ESA. No odours or visible signs of contamination were noted in the fill.

Interior Assessment

A general description of the interiors of the buildings is as follows:

- □ Floors consist of a combination of carpet, hardwood, linoleum, ceramic tile, vinyl floor tile and unfinished poured concrete (basements only).
- □ Walls consist of lath and plaster, drywall, and concrete in the basement.
- Ceilings consist of lath and plaster and/or drywall, ceiling stipple, suspended tile, and stick-on ceiling tile.
- Lighting throughout the building is provided by incandescent and fluorescent fixtures.

Liquid discharged from the Phase I Properties includes wash water and sewage from the residential dwellings. One (1) floor drain was observed in the basement at 406 Roosevelt Avenue. The drain appeared to be dry at the time of the site visit. No sump pits were present in the subject buildings. The basement at 402 Roosevelt Avenue had a carpet covered concrete floor, and the basement at 398 Roosevelt Avenue had a concrete floor with no observed drains.

Chemical storage within the subject structures was limited to commerciallyavailable cleaning products and paints, which were properly stored and are not considered to represent an environmental concern to the Phase I Properties.

Hazardous Building Materials

Based on the age of the residential dwellings (pre-1928), asbestos-containing materials may be present. Potential asbestos containing materials (ACMs) observed within the structures include linoleum, stick-on ceiling tiles, drywall joint compound, plaster/parging, and ceiling stipple.

Based on the age of the dwelling, lead-based paint may also be present on older or original painted surfaces. Fluorescent light ballasts installed before 1980 may contain PCBs. It is considered likely that ballasts have by now been replaced with PCB-free ballasts. Based on the age of the dwellings, urea formaldehyde foam insulation may be present. No signs of UFFI were noted at the time of the site visit at locations where wall cavities were open.

Ozone-depleting substances (ODSs) noted at the time of the site visit included kitchen refrigerators and air conditioning units, which should be maintained on a regular basis by a contractor licenced for these works.

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 Phase I Properties was as follows:

- □ North Residential dwellings;
- South Commercial units, including Starbucks, Westboro Village Centre, and Pharmasave, followed by Richmond Road;
- East Roosevelt Avenue, followed by Tubman Funeral Home and Westboro Chapel;
- □ West Residential dwellings, followed by Berkley Avenue.

No PCAs were identified on the immediately adjacent properties. One PCA was identified within the Phase I study area: Monson Deluxe Cleaners at 434 Richmond Road. The PCA is not considered to have had the potential to impact the Phase I Properties as discussed in the following section.

Land use within the Phase I study area (250 m radius) is primarily used for residential and commercial purposes, and is depicted on Drawing PE4046-3 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table outlines the ownership and land use dating back to the first developed use of the Phase I Properties.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photos, FIPs, etc.
1928- 2017	Various private individuals (based on City of Ottawa Directories)	Residential	Residential	Properties were developed with the existing dwellings before 1928 according to City of Ottawa's aerial photographs. No other documentation from this time.
Present	Domicile Developments (sale not finalized at time of site visit)	Residential	Residential	No change in land use observed at time of site visit.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

The following PCAs were identified in the Phase I study area:

- Item 28, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: "Gasoline and associated products storage in fixed tanks" this PCA was identified based on the presence of former retail fuel outlets at 372 and 415 Richmond Road, located 170 m to the east and adjacent to the Phase I Properties, respectively, and at 575 Byron Avenue, located 62 m to the south.
- Item 37, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: "Operation of Dry Cleaning Equipment (where chemicals are used)" – this PCA was identified based on historical dry cleaning establishments at 376, 379, 384, and 397 Richmond Road, located at distances ranging from approximately 55 to 140 m east of the Phase I Properties, as well as an existing cleaner (possibly a drop-

off location) at 434 Richmond Road, approximately 90 m southwest of the Phase I Properties.

Item 52, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: "Storage, maintenance, fuelling and repair of equipment, vehicles and material used to maintain transportation systems" – this PCA was identified based on the former presence of automotive service garages at 575 Byron Avenue (now 410 Richmond Road), 376 Madison Avenue, and 396 and 424 Richmond Road, located approximately 62 m south, 145 m northeast, 65 m east, and 55 m southwest, respectively, of the subject site.

Another offsite PCA, with no associated activity in Table 2, is the property at 389 Wilmont Avenue, where at least 5 monitoring well records were identified. City of Ottawa records indicate that this property was the location of an oil spill in 2005.

The aforementioned PCAs are not considered to result in APECs on the Phase I Properties based on their separation distances in combination with their orientations down or cross-gradient with respect to the subject land and the results of the Phase II ESA conducted on the subject site. The PCAs are shown in green on Drawing PE4046-3.

Contaminants of Potential Concern (CPCs)

There are no CPCs on the Phase I Properties.

7.2 Conceptual Site Model

Existing Buildings and Structures

The subject site is occupied by three (3) residential dwellings with full basement levels, a storage shed, and one detached garage.

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden is reported to consist of plain till with a drift thickness reported to range from 2 to 3 m across the site.

The findings of the previous Phase II ESA confirmed the presence of brown silty clay and sand underlain by shallow limestone bedrock.

Based on the regional topography, in combination with the Phase II ESA and previous work conducted by Paterson within the Phase I study area, the groundwater flow is towards the north and/or northeast.

Water Bodies

There are no water bodies on the subject site or within the Phase I study area. The closest water body is the Ottawa River, located approximately 338 m to the west.

Areas of Natural Significance

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

Water Well Records

No well records were identified on the Phase I Properties. Well records identified for the properties within the Phase I study area include 1 domestic well (on Berkley Street), 21 well abandonment records (for 379 Wilmont Avenue and 335 Roosevelt Avenue), 8 test holes (at 337, 380, 401, and 465 Richmond Road, and 389 Wilmont Avenue), and 5 monitoring wells (at 389 Wilmont Avenue). The potable well on Berkley Avenue was drilled to 30.5 m below grade and was installed within limestone bedrock. The well was installed in 1970 and is not expected to be in

current use. The monitoring and test hole wells were installed in 2011, 2012, and 2013.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the Phase I Properties. PCAs were identified in the Phase I study area, including former retail fuel outlets, automotive service garages and dry cleaners, and an oil spill at 389 Wilmont Avenue (at least 5 monitoring wells were installed at 389 Wilmont Avenue), all of which are located along Richmond Road, with the exception of the monitoring wells on Wilmont Avenue, to the northeast. These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances, their down or cross-gradient orientations with respect to the Phase I Properties and the results of the Phase II ESA. The PCAs are shown in green on Drawing PE4046-3 – Surrounding Land Use Plan. No other PCAs were identified on the Phase I Properties or within the Phase I study area.

Contaminants of Potential Concern (CPCs)

No CPCs were identified on the Phase I Properties.

Assessment of Uncertainty and/or Absence of Information

The presence/absence of potentially contaminating activities was confirmed by a variety of independent sources. 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

Assessment

Paterson Group was retained by Domicile Developments to conduct a Phase I Environmental Site Assessment (ESA) of 398, 402, and 406 Roosevelt Avenue in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

The historical research indicated that the subject property was first developed before 1928 with the existing residential dwellings. No PCAs were identified on the Phase I Properties.

Several off-site historical PCAs were present along Richmond Road, including dry cleaning establishments (376, 379, 384, and 397 Richmond Road), and retail fuel outlets and/or automotive service garages (372, 396, 410, 415, 420 Richmond Road, and 376 Madison Avenue). These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances of over 100 m in combination with the results of the subsurface investigation previously conducted for the subject properties. Paterson had also conducted previous investigations within the Phase I study area and based on a review of our files, no potential environmental concerns were identified with regards to potential off-site impacts to the Phase I Properties.

At the time of the site visit, no PCAs were identified on the Phase I Properties. One existing PCA was observed within the Phase I study area along Richmond Road - a dry cleaners at 434 Richmond Road. Based on their separation distances and the subsurface investigation carried out on the Phase I Properties, it is not considered to represent an APEC on the subject land.

A Phase II Environmental Site Assessment was conducted on the subject property; no environmental concerns were noted in the soil or groundwater tested.

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

Recommendations

It is our understanding that the Phase I Properties are to be redeveloped with a condominium building. Prior to the demolition of the existing residential dwellings, a designated substance survey (DSS) must be conducted 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 by O.Reg. 269/11, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

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

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

Paterson Group Inc.

Anna Graham, M.E.S.

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



Report Distribution:

- Domicile Developments
- Paterson Group

10.0 REFERENCES

Federal Records

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

Provincial Records

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

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I -Identification of Sites.", prepared by Golder Associates, 2004. Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988. City of Ottawa Historical Land Use Inventory (HLUI) database The City of Ottawa eMap website.

Local Information Sources

Phase II Environmental Site Assessment, prepared by Paterson, 2017. Personal Interviews. Previous Engineering Reports.

Public Information Sources

Google Earth. Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4046-2 – SITE PLAN

DRAWING PE4046-3 – SURROUNDING LAND USE PLAN

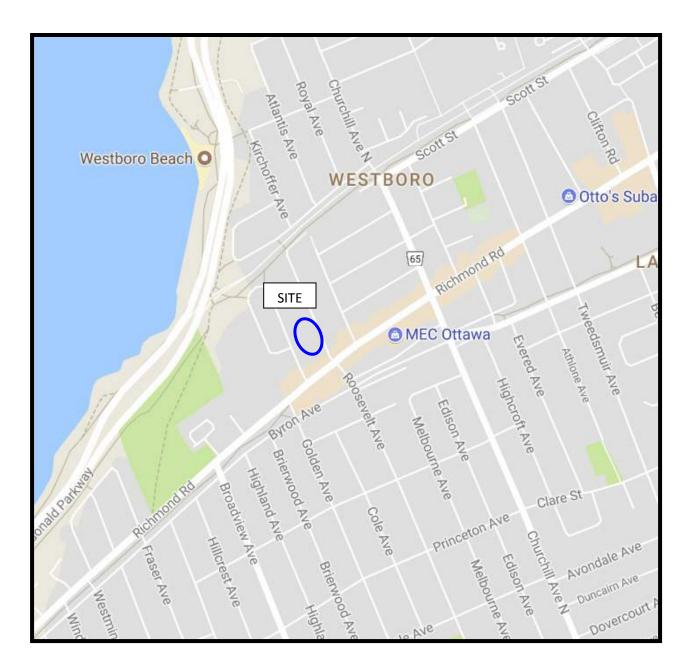


FIGURE 1 KEY PLAN

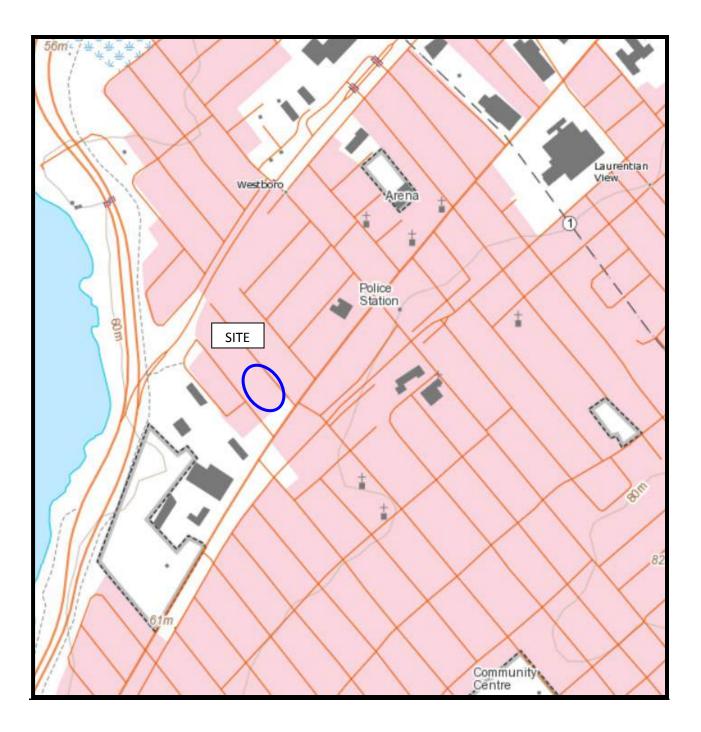
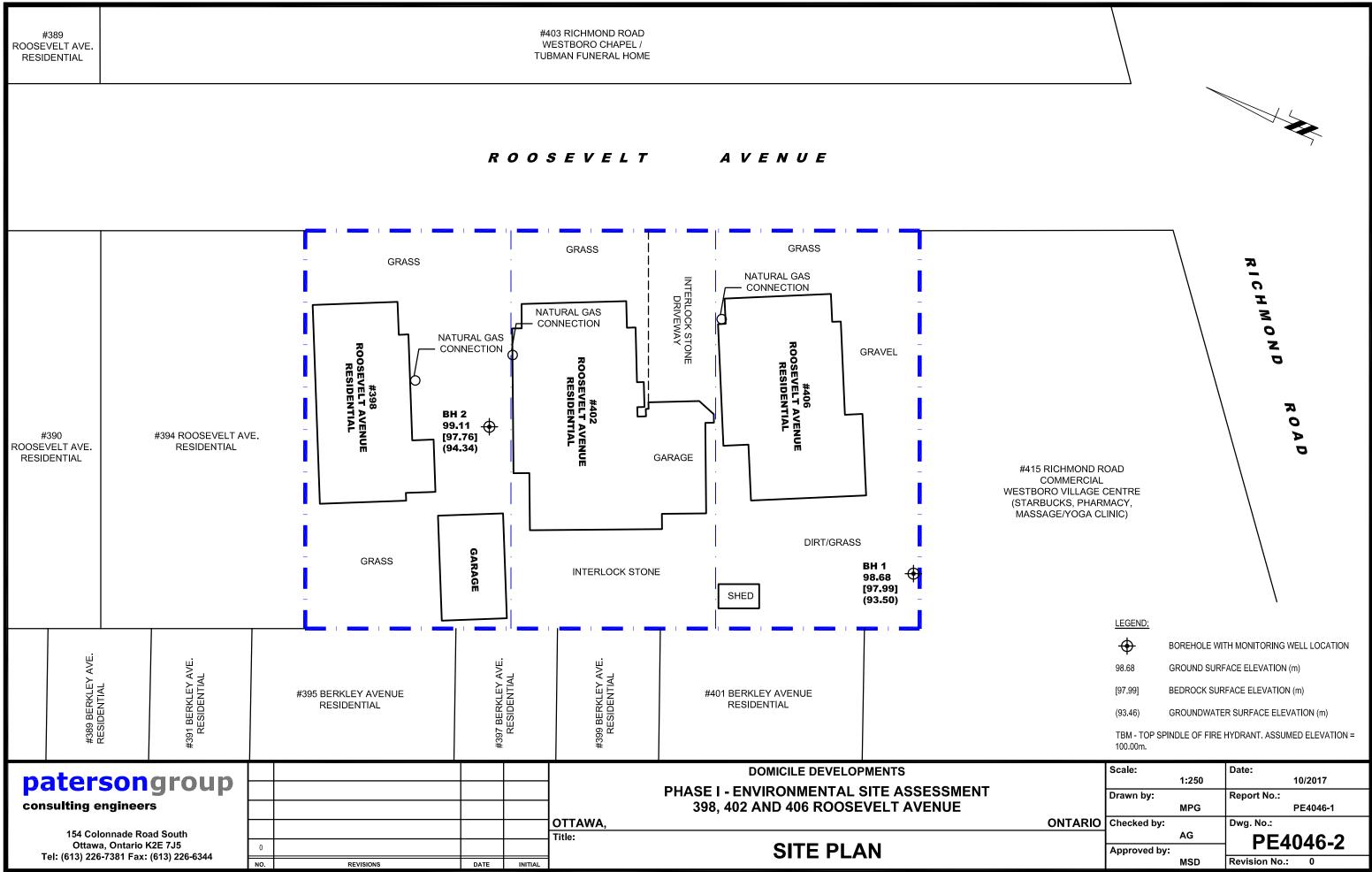


FIGURE 2 TOPOGRAPHIC MAP

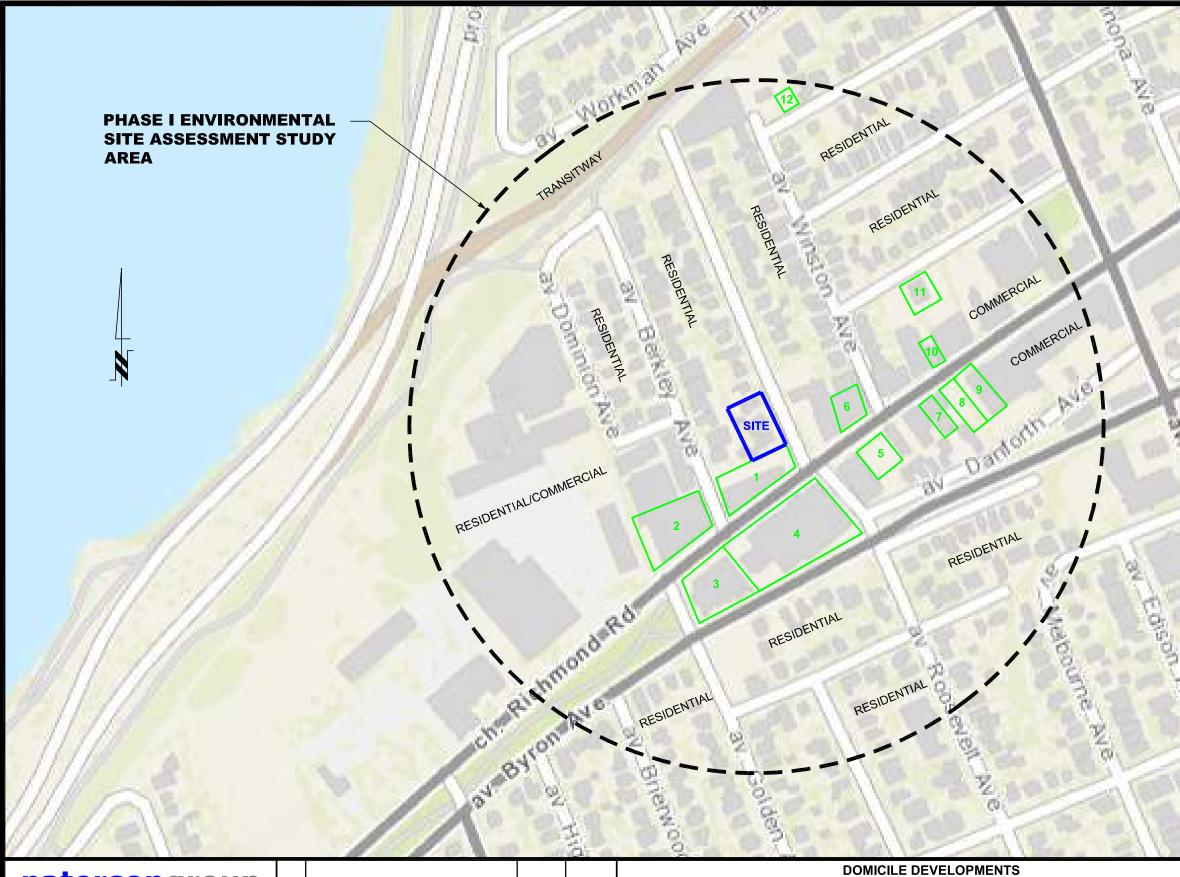
patersongroup -

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\odot	BOREHOLE WITH MONITORING WELL LOCATION
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	Drawn by:		Report No.:
		MPG	PE4046-1
ONTARIO	Checked by:		Dwg. No.:
		AG	PE4046-2
	Approved by:		FL4040-2
		MSD	Revision No.: 0



Domicile Developments Domicile Developments Consulting engineers 154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344 0 NO. REVISIONS Date Initial

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8	B III EIIE
3	POTENTIAL CONTAMINATING ACTIVITIES:
100	1. 415 RICHMOND ROAD - FORMER RETAIL F

- 1. 415 RICHMOND ROAD FORMER RETAIL FUEL OUTLET
- 2. 420 BERKLEY AVENUE (427 RICHMOND ROAD) -FORMER AUTOMOTIVE SERVICE GARAGE
- 3. 434 RICHMOND ROAD (401 GOLDEN AVENUE) -MONSON DELUXE CLEANERS
- 4. 410 RICHMOND ROAD (FORMERLY 416 AND 420 RICHMOND ROAD, AND 575 BYRON ROAD) - FORMER RETAIL FUEL OUTLET, FORMER AUTOMOTIVE SERVICE GARAGE, FORMER PRINTERS

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- 5. 396 RICHMOND ROAD FORMER AUTOMOTIVE SERVICE GARAGE
- 6. 397 RICHMOND ROAD FORMER DRY CLEANERS
- 7. 384 RICHMOND ROAD FORMER PALMERS CLEANERS

69

- 376 RICHMOND ROAD FORMER DRY CLEANERS
 372 RICHMOND ROAD FORMER RETAIL FUEL OUTLET
- 10. 379 RICHMOND ROAD FORMER PARKERS CLEANERS AND DYERS
- 11. 376 MADISON AVENUE FORMER AUTOMOTIVE MACHINE SHOP
- 12. 389 WILMONT AVENUE 5 MONITORING WELLS, FUEL SPILL

	Scale:		Date:
		1:3000	10/2017
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		AG	PE4046-1
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		AG	PE4046-3
	Approved by:		1 24040-3
		MSD	Revision No.: 0

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH 1928



AERIAL PHOTOGRAPH 1945



AERIAL PHOTOGRAPH 1968



AERIAL PHOTOGRAPH 1976

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AERIAL PHOTOGRAPH 1984

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AERIAL PHOTOGRAPH 1995

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398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 1: View of 398 Roosevelt Avenue, looking west from Roosevelt Avenue.



Photograph 2: View of 402 Roosevelt Avenue, looking west from Roosevelt Avenue.

PE4046

398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 3: View of 406 Roosevelt Avenue, looking southwest from Roosevelt Avenue.



Photograph 4: The basement of 406 Roosevelt Avenue, showing the reported former location of the fuel oil tank.

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398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 5: Exposed ceiling (suspended ceiling tile and plaster lath) at 406 Roosevelt.



Photograph 6: The basement of 402 Roosevelt Avenue.

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398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 7: The basement of 402 Roosevelt Avenue; former window or possibly a former coal chute.



Photograph 8: Chimney cleanout at basement of 398 Roosevelt Avenue.

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APPENDIX 2

MOECC FREEDOM OF INFORMATION SEARCH

TSSA CORRESPONDENCE

MOECC WELL RECORDS

CITY OF OTTAWA HLUI SEARCH



Ministry of Environment and Energy

Freedom of Information Request

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

		For Ministry Use Only					
Name, Company Name, Mailing Address and	Email Address of Requester		FOI Request No.		Date Request Received		
Anna Graham Paterson Group Inc.							
154 Colonnade Road			Fee Paid				
Ottawa, ON K2E 7J5 Email address: agraham@pa	tersongroup co			IQ 🗆	VISA/MC 🗆 CASH		
Telephone/Fax Nos.	llersongroup.ca	Signature/Print /Name of Requester					
Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE4046	Anna Graham	□ CNR □ ER □ SAC □ IEB	□ NO □ EA			
		Request Parameters	6				
Municipal Address / Lot, Concession, Geograp	hic Township (Municipal addı	ress essential for cities, towns or regions)					
398, 402, and 406 Roosevel	It Avenue (one site, s	ame owner), Ottawa, Ontario					
Present Property Owner(s) and Date(s) of Own	nership						
Domicile Developments Inc.							
Previous Property Owner(s) and Date(s) of Ow	vnership						
Present/Previous Tenant(s).(if applicable)	Present/Previous Tenant(s),(if applicable)						
Files older than 2 years may require	Search Parameters Specify Year(s) Requested Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located. Specify Year(s) Requested						
Environmental concerns (Ge	eneral correspondenc	e, occurrence reports, abatement)		all		
Orders					all		
Spills					all		
Investigations/prosecutions	► Owner AND tena	nt information must be provided			all		
Waste Generator number/cla	asses				all		
	Certificates	s of Approval > Proponent infor	mation must be provid	ded			
	rched manually. Searcl	h fees in excess of \$300.00 could be orting documents are also required	incurred, depending on	the types			
				SD	Specify Year(s) Requested		
air - emissions					1986-present		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster) 1986-present							
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations 1986-pres							
waste water - industrial discharg	les				1986-present		
waste sites - disposal, landfill site	es, transfer stations, proce	ssing sites, incinerator sites			1986-present		
waste systems - PCB destructi	ion, mobile waste processir	ng units, haulers: sewage, non-hazardous	& hazardous waste		1986-present		
pesticides - licenses					1986-present		

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

Anna Graham

From:	Ruchi Chohan [rchohan@tssa.org] on behalf of Public Information Services [publicinformationservices@tssa.org]
Sent:	September-29-17 1:51 PM
То:	Anna Graham
Subject:	RE: Records search request for Roosevelt Avenue

Hello Anna,

Thank you for your inquiry.

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

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

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

Thank you and have a great day,

Ruchi

From: Anna Graham [mailto:AGraham@Patersongroup.ca]
Sent: Tuesday, September 26, 2017 9:01 AM
To: Public Information Services publicinformationservices@tssa.org
Subject: Records search request for Roosevelt Avenue

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 for properties located in the City of Ottawa, ON:

394 Roosevelt Avenue
398 Roosevelt Avenue
402 Roosevelt Avenue
406 Roosevelt Avenue
411 Roosevelt Avenue
403 Richmond Road
410 Richmond Road
415 Richmond Road
395 Berkley Avenue
401 Berkley Avenue

Thank you,

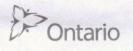
Anna Graham, B.Sc., M.E.S.

patersongroup solution oriented engineering

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 228 Fax: (613) 226-6344 Email: agraham@patersongroup.ca

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

	Rechmon		ELL RECORD
	Water monogement in Ontario 1. PRINT ONLY II	SPACES PROVIDED	1510536 MUNICIP
	COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY TOWN, VILLA	
	OWNER (SURNAME FIRST) 28-47	ADDRESS Ottawa	A DATE COMPLETED 40-53
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	OWRC COPY		Richmond .



Measurements recorded in:

Metric

Water found at Depth Kind of Water: Fresh Untested

Strata soil Sampling

Well Contractor and Well Technician Information

HT-2 west Beaver creek R Richmond Hill Province Postal Code Business E-mail Address

Ontario, 2001

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3616

Imperial

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

A106606

A106606

Well Record

,61

(m/ft)

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Regulation 903 Ontario Water Resources Act 9014 Page of

Address of Well Location (Street Number/Name) 337 Richmond County/District/Municipality Concession Township Lot Rd Postal Code City/Town/Village Province DHawa Ontario UTM Coordinates Zone Easting Northing NAD 8 3 4 8 4 4 0 9 7 1 50 2 6 8 7 9 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Description General Colour Most Common Material Other Materials From Soft, Hard, dry D Sand Bra Gravel dry 9.14 ,61 limestone Annular Space **Results of Well Yield Testing** Depth Set at (m/ft) From To Type of Sealant Used (Material and Type) Volume Placed (m3/ft3) After test of well yield, water was: Draw Down Recovery Time Water Level Time Water Level From Clear and sand free Concrete / flushmount (min) (m/ft) Other, specify (min) .31 0 Static If pumping discontinued, give reason: Level 31 1.5 Bensea 1 1 9.14 1.5 Sand Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Well Use Method of Construction 4 4 Public Commercial Not used Cable Tool Diamond Duration of pumping Dewatering Monitoring Jetting Rotary (Conventional) Domestic Mynicipal 5 5 min hrs + Rotary (Reverse) Driving Livestock Test Hole Final water level end of pumping (m/tt) Boring Digging Irrigation Cooling & Air Conditioning 10 10 Air percussion Industrial Other, specify Other, specify 15 15 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness Depth (m/ft) Water Supply Inside Recommended pump depth (m/ft) Diamete (cm/in) 25 25 Replacement Well From To (cm/in) Gest Hole Recommended pump rate (I/min / GPM) 30 30 PVL .368 Recharge Well 4.03 1.5 D Dewatering Well 40 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 50 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back MaUSpnOutside Depth (m/ft) Material Slot No. Diamete Abandoned, other, (Plastic, Galvanized, Steel) From То (cm/in) specify PVL 10 9.14 1.5 4.82 Other, specify Hole Diameter Water Details 5m Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify From To (cm/in) D 9.14 5.71 Water found at Depth Kind of Water: Fresh Untested 4m (m/ft) Gas Other, specify

Richmond

Comments

Well owner's information Ministry Use Only Date Package Delivered z134378 package delivered YYYYMMDD Date Work Completed Yes NOV 1 5 2011 No 20110908

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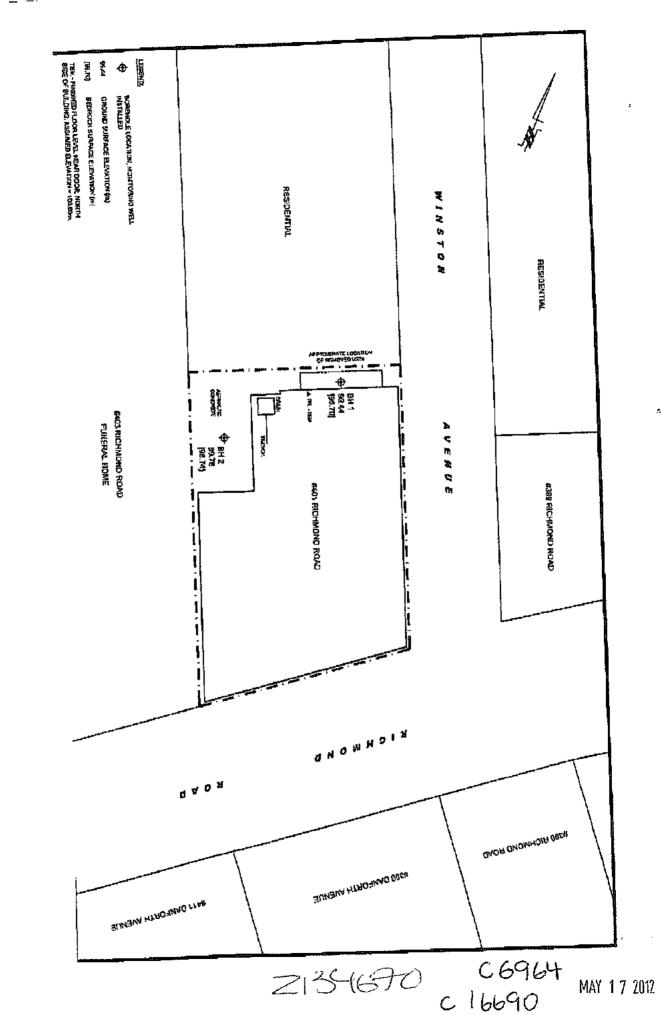
Province Postal Code Business E-mail Address ON H9B/C6 OFECORds Ostratasoil.com Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 9057699369 Beatty Brian Well Technician's Licence No. Signature of Zechnician and/or Contractor Date Submitted 20110961 Ministry's Copy

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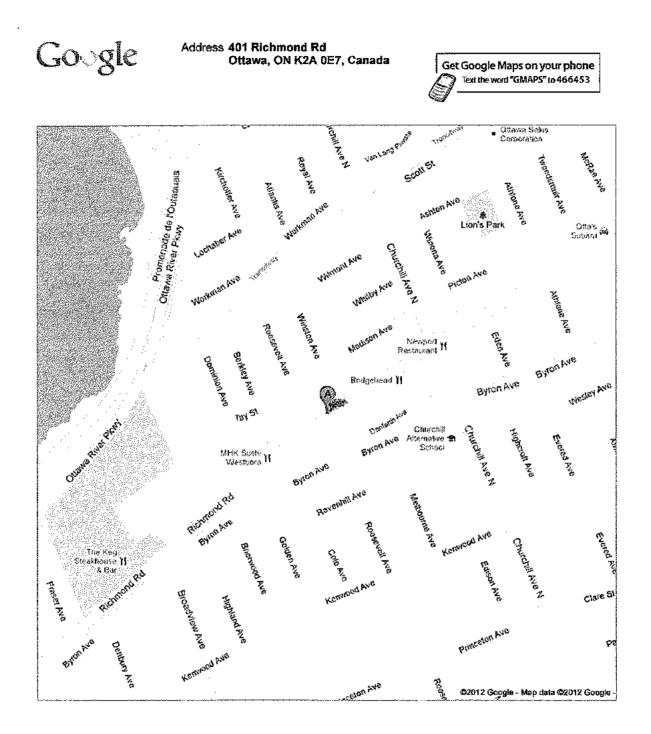
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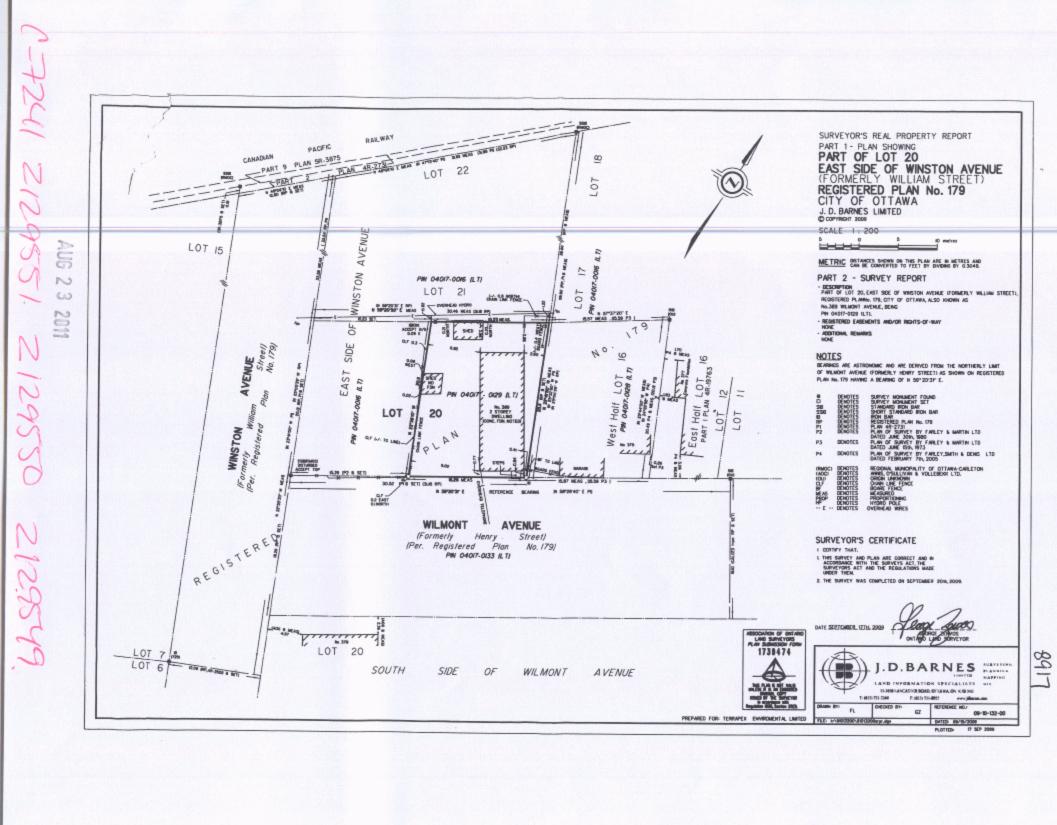


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Ontario Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of the Environment gulation 903 Ontario Water Resources Act A106748 A106748 2 89 Page of Imperial d Metric asurements recorded in: Well Owner's Information Last Name / Organization First Name E-mail Address Well Constructed Fuels by Well Owner Mailing Address (Street, Number/Na icipality Postal Code ne No. (inc. anea code Province Teleph QC H3A3 2200 Mchill Colleg Well Location benul B(800) 363-6940 Hon Nea Address of Well Location (Street Number/Name) Township Lat Concession Wilmont 38 City/Town/Village County/District/Municipality Province Postal Code Ontario UTM Coordinates Zone Easting NAD 8 3 18 990716502692 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Description General Colour Most Common Material Other Materials From ,61 boulders 0 loose, hard GRY fill. ,61 1.83 GRY loyered shale 1.83 4.6 limestone Annular Space **Results of Well Yield Testing** After test of well yield, water was: Depth Set at (m/ft) Type of Sealant Used Draw Down Recovery Volume Placed (m3/ft3) (Material and Type) Clear and sand free Time Time Water Level Water Level (min) .31 Other, specify (m/it) (min) (m/ft) concretes MOMUMCA Static If pumping discontinued, give reason: 31 1.22 bentonite Level 6 Her 1 1 4.67 Sand Pump intake set at (m/ft) 2 2 3 3 Pumping rate (1/min / GPM) Method of Construction Well Use 4 4 Diamond Cable Tool Public Not used Commercial Duration of pumping Rotary (Conventional) Jetting Dewatering Monitoring Domestic Municipal 5 5 min Livestock hrs + Rotary (Reverse) Test Hole Boring Air percussion Final water level end of pumping (m/ft) Digging Cooling & Air Conditioning Irrigation 10 10 Other, specify 15 15 If flowing give rate (Vmin / GPM) **Construction Record - Casing** Status of Well 20 20 Depth (m/ft) Water Supply Inside Open Hole OR Material Wall Recommended pump depth (m/ft) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Diamete Thickn Replacement Well 25 25 From To (cm/in) (cm/in) Test Hole Recommended pump rate (Vmin / GPM) 5.20 PVC 1.22 +1 Recharge Well 30 30 ,360 Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (I/min / GPM) 50 50 Alteration Disinfected? (Construction) Yes No 60 60 Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Outside Depth (m/ft) Please provide a map below following instructions on the back. Material (Plastic, Galvanized, Steel) Diameter (cm/in) Slot No. Abandoned, other, From To See Map specify PVC 6.03 10 1.22 4.67 Other, specify Water Details **Hole Diameter** Diamete (cm/in) Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested From To (m/ft) Gas Other, specify 11.43 0 1,52 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify 1.52 4.67 7.62 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor 3240 Strata Strata Soil Sampling Business Address (Street Number/Name) Comments: 147-2 West Beaver creek Rd Richmond Hill Province Postal Code Business E-mail Address Province LYBIC6 Wrecords Estrataso : 1 con Well owner's Ministry Use Only ON Date Package Delivered Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 90576 49309 Beatty Brian 90576 49309 Beatty Brian Audit No YYYYMMD package delivered 29550 Z⊥ Date Work Completed Yes 20110812 6 11 23 16 No No 20110814 0506E (2007/12) © Que Printer for Ontario 2007 Ministry's Copy

Well Tag No. (Place Sticker and/or Print Below) Well Record Ontario Ministry of Regulation 903 Ontario Water Resources Act the Environment A106749 A106749 3_ of_ L 891 Metric Page Imperial Measurements recorded in: Well Owner's Information First Name E-mail Address Last Name / Organization Well Constructed Frels Ultramal by Well Owner Mailing Address (Street Number/Name Municipality Province area 2200 V Well Location prenue 01 2 1 263+69 Mchi in rea Concession Lot Address of Well Location (Street Number/Name) Township 389 15 Wilmonte Ave County/District/Municipality City/Town/Village Province Postal Code Ottawa Ontario 1111 UTM Coordinates Zone Easting NAD 8 3 1 8 9 9 0 7 1 0 5 0 2 6 9 2 2 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material Other Materials General Description D 3 soft, loose GRY stones t. 11 layered 31 1.8 GRY shale 1.83 estone hard **Results of Well Yield Testing** Annular Space Type of Sealant Used (Magerial and Type) Concrete manument Depth Set at (m/ft) Volume Placed After test of well yield, water was: Draw Down Recovery Time Time Water Level From To (m3/ff3) Clear and sand free Water Level (min) 0 (m/ft) (m/ft) .31 Other, specify (min) Statio bentonite If pumping discontinued, give reason: 31 .91 Level 1 1 filler sand 4.6 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Method of Construction Well Use 4 4 Diamond Cable Tool Public Commercial Not used Duration of pumping Jetting Dewatering Monitoring Rotary (Conventional) Domestic Municipal 5 5 hrs + min Driving Rotary (Reverse) Livestock Test Hole Bering Irrigation Cooling & Air Conditioning Final water level end of pumping (m/ft) Digging 10 10 Air percussion Industrial Dther, specify Other, specify 15 15 If flowing give rate (I/min / GPM) **Construction Record - Casing** Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thicknes Inside Depth (m/ft) Water Supply Recommended pump depth (m/ft) Diamete (cm/in) Replacement Well 25 25 From To (cm/in) Test Hole Recommended pump rate (Vmin / GPM) PVC 5.20 30 .360 1.22 30 +1 Recharge Well Dewatering Well 40 40 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Please provide a map below following instructions on the back. Outside Depth (m/ft) Water Quality Material Diamete Slot No (Plastic, Galvanized, Steel) Abandoned, other, From То See Mop (cm/in) specify 1.12 PVC 4.67 6.03 10 Other, specify Water Details Hole Diameter Depth (m/ft) Diameter Water found at Depth Kind of Water: Fresh Untested 1.72 From (cm/in) (m/ft) Gas Other, specify 0 11.40 Water found at Depth Kind of Water: Fresh Untested 1.52 (m/ft) Gas Other, specify 4.67 7,62 Water found at Depth Kind of Water: CFresh Untested (m/ff) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contracto 's Licence No 1241 Strata Soil Sampling Municia Comments 147-2 West Beaver Creek Rd Richmond Hill Province Postal Code Business E-mail Address L 4 BI CG Wrecords Ostrotasoil.com Well owner's information package delivered Date Package Delivered Ministry Use Only ON Audit No YYYYMMDD 6 4 Beatty Brian Signature of Technician and/or Contractor Dates 2057649364 9549 Z Date Work Completed Yes ence No. 20110812 6 11 Un 20110814 NO 0506E (2007/12) © Que Printer for Ontario, 2007 **Ministry's Copy**



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First Name	· •	L	ast Name /	- Ť - I	on			E-mail Address			[Constructed ell Owner
	dress (Street N	QV Number/Nar		ita		Municipality		Province	Postal Code	{-	Felephone		area code)
220	O LAC	6.71	Colle	no f	time	Montio	n ()		H3A3	43			
Well Loca	ation			۲ <u>۰</u>									
Address of	Well Location	(Street Nur	n –		ł	Township	5		20	ł	Concessio	B	
<u></u> County/Dis		MONI	HU	ence	·	City/Town/Village	Ja			Provin	ce	Postal	Code
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UTM Coord	linales Zone	•		orthing	}	Municipal Plan and S		Number		Other			
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From	To		(Material al	nd Type}		<u>(m³/fi³)</u>		Clear and sand I	free	Time	Water Lev (m/ft)	el Time (min)	Water Level (m/ft)
0	0.65	hole	plug		······································	1 bag		If pumping discontinue	ed. oive reason:	Static	1		
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				and the second	WellU			Pumping rate (Vmin /	GPM)	3		З	
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Rotary (C	Conventional)	Jetting		omestic	🗌 Muglici	pal 🗌 Dewate	ring	Duration of pumping hrs +		5		5	
Rotary (F	Reverse)	Driving		vestock igation	Cooline	ate 🗌 Monitor g & Air Conditioning	~ 3 b	Final water level end o		10		10	///////////////////////////////////
	ussion			dustrial						ļ			
Other, sp		Auger	<u>r :</u>	iher, <i>specify</i>				If flowing give rate (2)	min / GPM)	15		15	
Inside	Open Hole O	truction R	ecord - Ca Wall		th (<i>m/fi</i>)	Status of We		Recommended purn	n denth <i>(mitt</i>)	20		20	
Diameter (cm/in)	(Galvanized, I Concrete, Pla	Fibreglass,	Thickness (cm/in)	From	То	Replacement W			p copin prony	25		25	
				<u> </u>		Test Hole		Recommended pum (Ilmin / GPM)	p rate	30		30	
5.2	plast	ìc	0.4	$ \circ $	0.6		#	fermary Gr wy		40		40	
						Observation and Monitoring Hole	Var	Well production (Ilmin	n / GPM)	Į			
						(Construction)		Disinfected?		50		50	
						Abandoned,		🗍 Yes 🗍 No		6 0		60	
	Con	struction R	ecord - Scr	een		Insufficient Sup	~ L	N. S. S. S. C. S.					
Outside Diameter	Mate		Slot No.		ih (<i>m/fi</i>)	Water Quality		Please provide a map	below following	instructi	ons on the	back.	
(cm/in)	(Plaslic, Galva	nized, Steel) 		From	То	specify	,						
6.0	olasti	ic	10	0.65	3.34	Other, specify							
				500 1		Other, speeny			L	ì		í	
		Water Del	alls			Hole Diameter	W.25X	6	ite f a r .close	Nar	a	d	
	nd at Depth Ki			Unteste	d De From	pth (<i>m/ft</i>) Diame To (cm/		\bigcirc	n 1 1	Nρ	\wedge	51 0	
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	nd at Depth Ki n/#) ⊡Gas [[_] Curises ie	"	2.37 00	×	ILA	close	d.			
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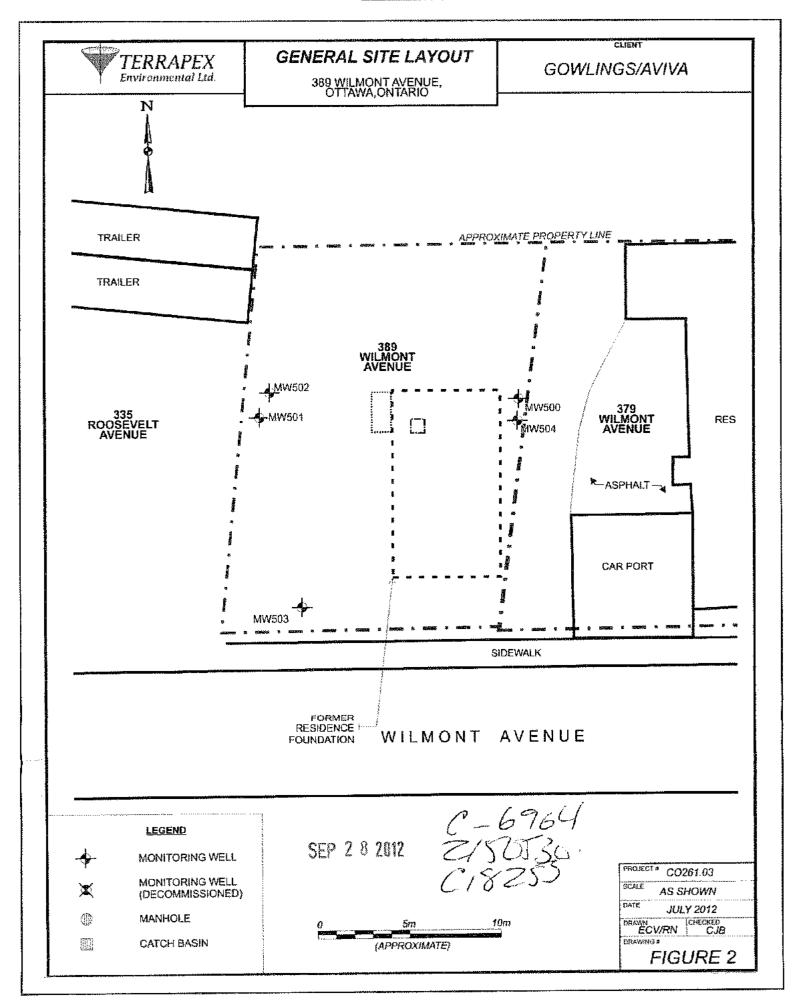
Well Record for Well Cluster - Part 3 of 3 Detailed Drawing of All Well Locations

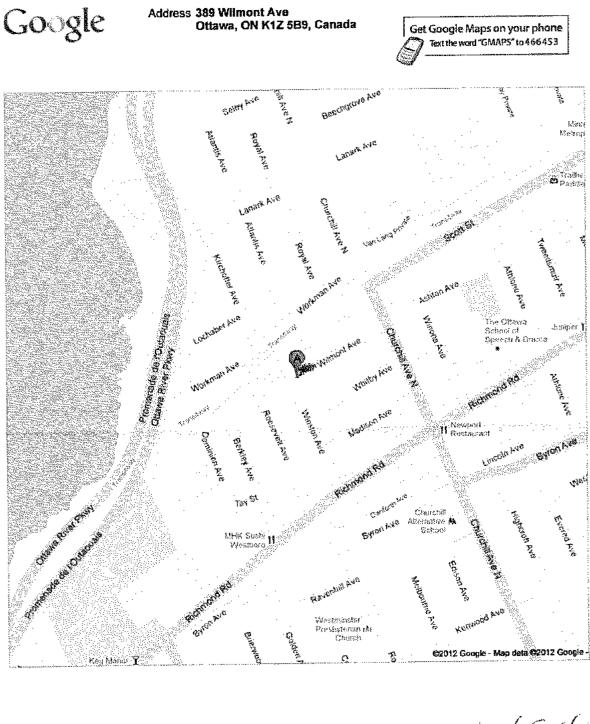
Note: This Well Record for Well Cluster Part 3 - Detailed Drawing of all Well Locations, must be attached to Parts 1 and 2. The drawing must include all property boundaries, an arrow indicating the North direction, all named roads and sufficient measurements to locate all wells in the cluster in relation to fixed points. The drawing must show the location of each well and each well must be numbered on the drawing to match number used for that well on the Well Record for Well Cluster Parts 1 and 2. The well with the well tag must be clearly identified on the Drawing.

UTM coordinates should appear beside each well, if space permits. Additional comments on wells can be included on the drawing

Well Tag Number: # <u>ANG033</u>

"Well Record for Well Cluster" Form Audit Number: # _____C_\8_2_5_3____





C-6964 C18253 Z150530

SEP 2 8 2012

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=389+Wilmont+Av... 23/07/2012

Ontario Ministry of the Environm		ag No. (Place Sticker a	Regulation	n 903 Ontario V		ecord
Measurements recorded in: Metric	Imperial AID6	79/ A10	06747	3917 Pag	je_/	of 4
Well Owner's Information	Man International					
	a Mar Fuels		E-mail Address			Constructed
Mailing Address (Street Number/Name)	A	Municipality	Province Postal Code	Telephor	e No. (inc. a	area code)
2200 McGill College	bonue	Montreal	QC H3A3	LS (600)	3631	6949
Address of Well Location (Street Number/N	ame)	Township	Lot	Concess	lion	1
389 Wilmonte Au						
County/District/Municipality		City/Town/Village		Province Ontario	Postal	Code
UTM Coordinates Zone Easting	Northing . 0 . 0	Municipal Plan and Subl	ot Number	Other		
NAD 8 3 1 8 4 4 0 7 30	25026919					
Overburden and Bedrock Materials/Ab			e back of this form) General Description		Dept	th (m/ft)
General Colour Most Common Ma	1	ther Materials	soft, 1005e		From	To
CRU Villa	stone	>	fractured layer	d	-31	103
CRY L'Y			inter angel		1.83	1.0
GOCY TIMESTORE			hard		1.0 -	9.61
		-				
	nular Space	Volume Placed	Results of We After test of well yield, water was:	Draw Dowr		ecovery
From To (Mate	rial and Type)	(m³/ħ³)	Clear and sand free	Time Water L	evel Time	Water Level
0.31 concrete	monument		Other, specify	(min) (m/ft, Static) (min)	(m/ft)
.31,91 bentonite			If pumping discontinued, give reason:	Level		
.91 4.67 fitter sa	d			1	1	
			Pump intake set at (m/ft)	2	2	
Nothed of Combrastion	101-111		Pumping rate (I/min / GPM)	3	3	
Method of Construction	Public Comm			4	4	
	Domestic Munic	ipal Dewatering	Duration of pumping hrs + min	5	5	
	Livestock Test I Irrigation Coolir	Hole Monitoring	Final water level end of pumping (m/ft)	10	10	1.00
	Other, specify				15	
Construction Record		Status of Well	If flowing give rate (I/min / GPM)	15		
Inside Open Hole OR Material Wa	all Depth (m/ft)	Water Supply	Recommended pump depth (m/ft)	20	20	
Diameter (Galvanized, Fibreglass, (cm/in) Concrete, Plastic, Steel) (cm		Replacement Well Test Hole		25	25	
5.20 PVC .3	60 +1 1.20	Recharge Well	Recommended pump rate (I/min / GPM)	30	30	
		Dewatering Well	Vell production (I/min / GPM)	40	40	
		Monitoring Hole		50	50	
		(Construction)	Disinfected?	60	60	Section 1
Construction Record	- Screen	Insufficient Supply		ell Location		
Outside Material Stat	Depth (m/ft)	Water Quality	Please provide a map below following	instructions on the	ne back.	1.1.1
(cmvin) (Plastic, Galvanized, Steel)	From To	Abandoned, other, specify	See	MaD		
6.03 PVC 10	1.22 4.6		200	int		
		Other, specify	1.26			
Water Details		Hole Diameter		and the second		
Water found at Depth Kind of Water:	resh Untested De From	epth (m/ft) Diameter To (cm/in)	NOW .			
(m/ft) Gas Other, specify Water found at Depth Kind of Water:	resh Untested 0	1.52 11,43				
(m/ft) Gas Other, specify	1.50	1 4.67 7.67				
Water found at Depth Kind of Water:	resh Untested	1.01 1.00				
(m/ft) Gas Other, specify	Well Technician Inform	ation				
Business Name of Well Contractor		Nell Contractor's Licence No.				
Strata Soil Sami Business Address (Street Number/Name)	pling	7241				
1.1.		Municipality Ridem and Hill	Comments:			
Province Postal Code But	siness E-mail Address	righmond Mill				
ON LUBICEL	urecords@St	tratasoil.com	Well owner's Date Package Deliver	and the second s	nistry Use	Only
Bus.Telephone No. (inc. area code) Name of 9057699304	Well Technician (Last Nam		delivered YYYYMM	7	129	551
Well Technician's Licence No. Signature of Tech	hnietan and/or Contractor I	Date Submitted	Yes Date Work Completed	1017	UG 2 3	2011
3616 1		20110804	10 NO 201108	b d Receiver	1	
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This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7163102 Well Audit Number: *Z127806* Well Tag Number: *A108223*

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

Well Location

Address of Well Location	465 RICHMOND RD
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: 440537 Northing: 5026565
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Matorial	Other Materials	Conoral Description	Depth	Depth
General Colour	Most Common Material	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	
0 m	.15 m	ASPHALT PAVEMENT	
.15 m	2.13 m	GRAVEL	
0 m	2.44 m	BENTONITE PELLETS	
2.44 m	5.91 m	FILTER SAND	
2.13 m	5.91 m	LIMESTONE BEDROCK	

Method of Construction & Well Use

Method of Construction	Well Use
Diamond	

Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
3.5 cm	PLASTIC	0 m	2.83 m

Construction Record - Screen

Outside Material Depth Depth Diameter From To 4.1 cm PLASTIC 2.83 m 5.91 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6964

Results of Well Yield Testing

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

Map: Well records	s Ontario.ca
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Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	2.3 m	7.5 cm
2.3 m	5.91 m	5.6 cm

Audit Number: Z127806

Date Well Completed: April 30, 2011

Date Well Record Received by MOE: May 13, 2011

Updated: March 20, 2017 Rate <u>Rate</u> Share facebook twitter Print Tags

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Chris Ballard

Minister of the Environment and Climate Change

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Ministry of the Environment All measurements recorded in: Metric Imperial Follow instructions on the front and back of this form. Print or Type Well Cluster Location Information Address of Well Location (Street Number(s)/Name(s), RR, if available) Lot(s) 389 Will Month Luenue S City, Town, Village or Hamlet Provi Provi	Well # on Drawing	Geographic Township County/District/Upper Tier Municipality Offawa Offawa Offawa Offawa Model Unit Mate of Operation	tering Wells) as Act of Information attached. Ins must be attached. Inply submit to the
	ario Nggellan	Differentiated, specify:	tion in my custody or r that I have constructed.
Well Details		Signature of Technician/Contractor	Dale (yyyy/mm/dd)
Weil # UTM Coordinates Hole Hole on Depth Depth Diameter Drawing Zone Easting Northing (m/ft) (cm/in		Casing (m/ft) Screen Interval (m/ft) Annular Space Material (m/ft) Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft) From To From To Material:	Static Date of Water Completion evel (m/ft) (yyyy/mm/dd)
MW 18440723502692692633422 Sooi 184407315026936914 "	HS Auger pastic	0 0.80 0.80 3.34 0.65 3.34 filter sand	2012/01/31
501 1844073150269369.14 "	<u>ч</u> и	0 6.12 6.12 9.14 5.90 9.14 Filter sand	10/20/6108
SO2 1844072350869883.36 "	ų ų	0 0.83 0.83 3.36 0.65 3.36 Filter sand	8012/01/31
5031844072350269265.18 "	<u> </u>	0 1.30 1.30 5.18 1.00 5.18 filter sand	k .
504 184407 2850 269 21 9.14 "	я in	0 6.126.12 9.14 5.87 9.14 Filersand	٨
Well Contractor and Well Technician Information		Date First Well in Cluster Constructed Date Last Well in Cluster or Abandoned (yyyy/mm/dd) Date Last Well in Cluster Completed (yyyy/mm/dd) Date Received (yyyy/mm/dd) A	udi No
Business Name of Well Contractor OGS INC 5518 Andress (Street Nu 5518 Andress (Street Nu	- 1 / 1 AC		0 18253
Postal Code Bus. Telephone No. Well Contractor Licence No. BOALAIAOU3-256-7666 6964	casincabe	ell not a Person Abandoning the Wells:	530
Name of Well Technician (First Name, Last Name) Well Technician's Licence No Lason Strude 3634	. Signature of Well Technician	Date Submitted (yyyy/mm/dd) 2012 (09/24 Name (Print or Type) - See instruction 11 on the back of this form	~ ~

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- Change the address on identification cards
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Map: Well records

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

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195210 Well Audit Number: *2157179* Well Tag Number:

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440722 Northing: 5026932
Municipal Plan and Sublot Number	_
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	3.35 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	.61 m

Construction Record - Screen

Outside Material Depth Depth Diameter PLASTIC .61 m 3.35 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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	3.35 m	6.03 cm

Audit Number: Z157179

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195211 Well Audit Number: *Z157180* Well Tag Number: *A119073*

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440728 Northing: 5026932
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

General Colour Most Common Ma	Most Common Matorial	Other Materials	General Description	Depth	Depth
	wost common wateria			From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	9.14 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	3.1 m	6.03 cm
3.1 m	9.14 m	5.2 cm

Audit Number: Z157180

Date Well Completed: December 14, 2012

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Technical documentation: Metadata record

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Well ID

Well ID Number: 7195212 Well Audit Number: *Z157181* Well Tag Number: *A106747*

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

Well Location

Address of Well Location	389 WILMONT
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: 440730 Northing: 5026927
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Othor Matorials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.27 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.22 m

Construction Record - Screen

Outside Material Depth Depth Diameter From To 6.03 cm PLASTIC 1.22 m 4.27 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	4.27 m	6.03 cm

Audit Number: Z157181

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Recommended for you

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Technical documentation: Metadata record

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Well ID

Well ID Number: 7195213 Well Audit Number: *2157196* Well Tag Number:

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

Well Location

Address of Well Location	335 ROOSEVELT AVE.
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: 440719 Northing: 5026922
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Othor Matorials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Material Depth Depth Diameter From To 6.03 cm PLASTIC

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm
1.83 m	4.57 m	

Audit Number: Z157196

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Technical documentation: Metadata record

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Well ID

Well ID Number: 7195214 Well Audit Number: *2157195* Well Tag Number:

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

Well Location

Address of Well Location	335 ROOSEVELT AVE.
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: 440704 Northing: 5026921
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	5.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157195

Date Well Completed: December 14, 2012

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Technical documentation: Metadata record

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Well ID

Well ID Number: 7195215 Well Audit Number: *2157194* Well Tag Number:

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

Well Location

Address of Well Location	335 ROOSEVELT AVE
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: 440719 Northing: 5026924
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157194

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Recommended for you

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Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195216 Well Audit Number: *2157193* Well Tag Number:

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

Well Location

Address of Well Location	335 ROOSEVELT AVE
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: 440717 Northing: 5026934
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Othor Matorials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157193

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195217 Well Audit Number: *2157192* Well Tag Number:

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

Well Location

Address of Well Location	335 ROOSEVELT AVE
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: 440722 Northing: 5026936
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Matorial	Other Materials	General Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157192

Date Well Completed: December 14, 2012

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

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Well ID

Well ID Number: 7195202 Well Audit Number: *2157189* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE.
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: 440737 Northing: 5026939
Municipal Plan and Sublot Number	_
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Matorial	Other Materials	General Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Depth From To		Diameter	
0 m	1.83 m	6.03 cm	

Audit Number: Z157189

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195203 Well Audit Number: *2157188* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE.
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: 440737 Northing: 5026942
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

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	
https://www.ontario.ca/environment-a	and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Depth From To		Diameter	
0 m	1.83 m	6.03 cm	

Audit Number: Z157188

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195204 Well Audit Number: *2157187* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE.
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: 440740 Northing: 5026940
Municipal Plan and Sublot Number	_
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	

Audit Number: Z157187

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

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Well ID

Well ID Number: 7195205 Well Audit Number: *2157186* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE.
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: 440747 Northing: 5026937
Municipal Plan and Sublot Number	-
Other	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157186

Date Well Completed: December 14, 2012

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195206 Well Audit Number: *2157185* Well Tag Number:

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440747 Northing: 5026937
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	5.18 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.21 cm	PLASTIC	0 m	2.13 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To

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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	2.13 m	6.03 cm

Audit Number: Z157185

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195207 Well Audit Number: *2157184* Well Tag Number:

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440723 Northing: 5026922
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

General Colour Most Common Material Other Materials General Description From To	General Colour Most Common Material Other Materials General De	ription Depth Depth From To
---	--	--------------------------------

Annular Space/Abandonment Sealing Record

 Depth
 Depth
 Type of Sealant Used
 Volume

 From
 To
 (Material and Type)
 Placed

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

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

Construction Record - Screen

Outside Diameter Material Depth Depth From To

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	1
Pump intake set at	
Pumping Rate	
Duration of Pumping	

Map: Well records	Ontario.ca
-------------------	------------

Final water level			
If flowing give rate	e		
Recommended pu	ımp de	epth	
Recommended pu	ımp ra	te	
Well Production			
Disinfected?			
2.0			

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	8.25 cm

Audit Number: Z157184

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195208 Well Audit Number: *2157178* Well Tag Number:

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440723 Northing: 5026926
Municipal Plan and Sublot Number	_
Other	
	-

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	3.35 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	.61 m

Construction Record - Screen

Outside Material Depth Depth Diameter PLASTIC .61 m 3.35 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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	3.35 m	6.03 cm

Audit Number: Z157178

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195209 Well Audit Number: *Z157182* Well Tag Number: *A106748*

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

Well Location

Address of Well Location	389 WILMONT AVE.
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: 440720 Northing: 5026932
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	3.96 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	.91 m

Construction Record - Screen

Outside Material Depth Depth Diameter To 6.03 cm PLASTIC .91 m 3.96 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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	2.44 m	6.03 cm
2.44 m	3.96 m	5.2 cm

Audit Number: Z157182

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017 Rate <u>Rate</u> Share <u>facebook twitter Print</u> Tags

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 <u>Well water</u>



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Map: Well records

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

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195200 Well Audit Number: *2157191* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE.
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: 440740 Northing: 5026932
Municipal Plan and Sublot Number	-
Other	-
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157191

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017 Rate <u>Rate</u> Share <u>facebook twitter Print</u> Tags

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- Change the address on identification cards
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Map: Well records

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7195201 Well Audit Number: *2157190* Well Tag Number:

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

Well Location

Address of Well Location	379 WILMONT AVE
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: 440707 Northing: 5026436
Municipal Plan and Sublot Number	
Other	
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General colour	wost common wateria	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction Well Use
Other Method

HAND PULLED

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter Material Depth Depth From To 6.03 cm

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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

•	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157190

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017 Rate <u>Rate</u> Share <u>facebook twitter Print</u> Tags

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- Government services
- Outdoors Cards, Licences and Draws
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- Change the address on identification cards
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This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7183813 Well Audit Number: *Z148673* Well Tag Number: *A032169*

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

Well Location

Address of Well Location	389 WILMONT AVE
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: 440739 Northing: 5026916
Municipal Plan and Sublot Number	
Other	-
	-

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Meteriale	Conoral Description	Depth	Depth
General Colour	Most Common Material	Other Waterials	General Description	From	То

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENTONITE	
.91 m	4.57 m	GROUT (BENTONITE)	

Method of Construction & Well Use

Method of Construction Well Use

Monitoring and Test Hole

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth	
Diameter		From	To	
5.2 cm	PLASTIC	0 m	1.52 m	

Construction Record - Screen

Outside Material Depth Depth Diameter From To 6.03 cm PLASTIC 1.52 m 4.57 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 https://www.ontario.ca/environment-and-energy/map-well-records

Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

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

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Depth Diameter From То 0 m

Audit Number: Z148673

Date Well Completed: June 05, 2012

Date Well Record Received by MOE: July 06, 2012

Updated: March 20, 2017 Rate <u>Rate</u> Share facebook twitter Print Tags

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- Travel and recreation

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Ministry of the Environment

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

	Wel	l Record
Regulation 903 O	ntario Water	Resources Act
	Pana	of

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	vner's Info			42		· • • · · · · · · · · · · · · · · · · ·					
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Mailing Ad	ddress (Stree	t Number/Nam			Municipality	Province	Postal Code	e	Telephone N	-	
345 Ra	avenhil.	l Ave.			Ottawa	Ontario	K2A 0J5		613 596	876	\$2 }
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Depth S	Set at (<i>m/ft</i>)		Annular Space Type of Sealant Us		Volume Placed	After test of well y	Results of W ield, water was:		aw Down	F	Recovery
From	- <u></u>		(Material and Type,		(111 ² /ft ³)	Clear and sa		Time (min)	Water Level (m/ft)	1 1	Water Level (mift)
137.15	5 1.82	Grouted	l with clea	r washed	3/4 inch grave	Dither, specific	y tinued, give reason:		(1111)	(min)	(mai)
		and 3/	4 inch Ben	tonite Ho	le Plug	i i pumping uscon	unueo, give teason.	Level			
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	1					Pumping rate (IIn	nia / GPM)	3		3	
Met Cable To	thod of Cor	Diamond	Public	Well Us						4	
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Other, s	specify	<u> </u>	🗌 Other, spec	cily		If flowing give rate	e (Ilmin I GPM)	15		15	
			cord - Casing		Status of Well			20		20	
Inside Diameter	(Galvanize	OR Material d, Fibreglass,	Thickness)epth (<i>m/ft</i>)	Water Supply	Recommended p	ump depth (m/ft)	25		25	
(cm/in)	Concrete, I	Plastic, Šteel)	(cm/in) From	n To	🗍 Test Hole	Recommended p	umo rate				
					Recharge Well Dewatering Well	(Ilmin / GPM)	in prate	30		30	····
					Observation and/or	Well production (Ilmin / GPM)	40		40	
					 Monitoring Hole Alteration 			50		50	
					(Construction)	Disinfected?		60		60	
		- of the set of the se			Abandoned,	<u>A</u> 165 100			_42		
Outside	7	lerial	cord - Screen	lepth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a r	Map of Wo nap below following			ack.	".
Diameter (cm/in)		vanized, Steel)	Slot No. From		Abandoned, other,	R					r
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Measurements recorded in: 🔀 Metric 🗌 Imperial

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Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below)

Well Record Regulation 903 Ontario Water Resources Act

Page_____ of _____

Well Ow	ner's Infor												
First Name)	,		Organization				E-mail Addre	255				Constructed
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137.15	<u>1.82 </u>	Grouted v						If pumping discor	tinued, give reason:	Static Level			
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								Pump intake set	at (m/ft)				
	ĺ									2		2	
Mot	hod of Con	etruction	1		Well Us	 o		Pumping rate (##	min I GPM)	3		3	
Cable To	•	Diamond	П Ри	blic		-	Not used			4		4	
🗍 Rotary (Conventional)	=		mestic	Municipa	al 🗍	Dewatering	Duration of pum		5		5	
Rolary (Reverse)	Driving	Liv	estock nation	Copling	e [] & Air Conditio	Monitoring	hrs + Final water level (end of pumping (m/it)	[
Air perci	ussion		🗌 Inc	fustrial			ning -		and of pointping (miny	10		10	
Other, s	реслу		[] Ot	her, specify .				If flowing give rat	te (Ilmin I GPM)	15		15	
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Inside Diameter	Open Hole ((Galvanized	OR Material , Fibreglass,	Wall Thickness		n (<i>mift</i>)	Water S	••••	Recommended	pump depth (m/ft)	25		25	
(cm/in)	Concrete, P	lastic, Šteel)	(cmlin)	From	T o	. 🛄 Test Ho	le	Recommended	numo rate				
						Recharg	- +	(Ilmin LGPM)		30		30	
						Dewater	- u	Well production	(Ilmin GPM)	40		40	
						- Monitorir			12110111 (21 104)	50		50	·
	-					Constru	liction)	Disinfected?		60		60	
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- Driving and Roads

Map: Well records

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7198182 Well Audit Number: *Z163364* Well Tag Number: *A141813*

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

Well Location

Address of Well Location	380 RICHMOND ROAD
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: 440878 Northing: 5026667
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
RED				0 m	.31 m
GREY	GRVL	SAND	LOOS	.31 m	.61 m
BRWN	SAND	GRVL	SOFT	.61 m	1.22 m
GREY	LMSN		LYRD	1.22 m	10.67 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	CONCRETE/FLUSHMOUNT	•
.31 m	7.01 m	BENTONITE	
7.01 m	10.67 m	FILTER SAND	

Method of Construction & Well Use

Method of Construction Well Use

Air Percussion

Monitoring and Test Hole

Status of Well

Test Hole

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
4.03 cm	PLASTIC	0 m	7.62 m

Construction Record - Screen

Outside Material Depth Depth Diameter From To 4.82 cm PLASTIC 7.62 m 10.67 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			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.52 m	11.43 cm
1.52 m	10.67 m	7.62 cm

Audit Number: Z163364

Date Well Completed: January 25, 2013

Date Well Record Received by MOE: March 07, 2013

Updated: March 20, 2017 Rate <u>Rate</u> Share <u>facebook twitter Print</u> Tags

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- Well water



Minister of the Environment and Climate Change

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ABOUT ONTARIO

privacy

- accessibility
- terms of use



	Office Use Only	
Application Number:	Ward Number:	Application Received: (dd/mm/yyyy):
Client Service Centre Staff:		Fee Received: \$



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

		Background Information
*Site Address or Location:		
	* Mandatory Field	
Applicant/Agent l	nformation:	
Name:		
Mailing Address:		
Telephone:		Email Address:
Registered Proper	ty Owner Information:	Same as above
Name:		
Mailing Address:		
2		
Telephone:		Email Address:

	Site Details					
	m Lot depth: m Lot area: m² area: (irregular lot) m² e have Full Municipal Services: Yes No					
	Required Fees					
Please don't hesitate to visit <u>the Historic Land Use Inventory</u> website more information. Fees must be paid in full at the time of application submission.						
Planning Fee						
	Submittal Requirements					

The following are required to be submitted with this application:

- 1. Consent to Disclose Information: Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner. This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer: Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.
- **4.** Any significant dates or time frames that you would like researched.

Disclaimer For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to	("the Requester") does so only under the following

conditions and understanding:

- The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.
- 2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
- 3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
- 4. Copyright is reserved to the City.
- 5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
- 6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
- 7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed:	
Dated (dd/mm/yyyy):	
Per:	
(Please print name)	
Title:	
Company:	

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Anna Graham, M.E.S.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Assessor

EDUCATION

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

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

EXPERIENCE

2014 to Present Paterson Group Inc. Consulting Engineers Environmental Assessor

2013 to 2014 **Civica Infrastructure Inc.** Municipal Water Resources Engineering - Vaughan Project Support Coordinator, Project Proposal Writer

PROJECTS

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

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

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

SELECT LIST OF PROJECTS

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