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Phase I - Environmental Site Assessment

Vacant Property, 801 Albert Street
Ottawa, Ontario

Prepared For

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Trinity Development Group Inc. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 801 Albert Street, in the City of Ottawa, Ontario. The purpose of this Phase I-Environmental Site Assessment (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 subject site is currently vacant. Various municipal sewers cross the site. Based on the historical research, the subject site was initially developed as a rail yard and associated buildings. The rail yard was decommissioned by the early 1960s, and the subject site was used as a snow dump until 1993. The subject site has not been used since that time. Historically, surrounding property use has been residential and industrial. Prior to the development of the present-day City Centre building, the adjacent property to the south was occupied by industrial uses, including a lumber yard, planing mill, and fuel and oil dealer.

Between 1992 and 2011, several environmental and geotechnical investigations were completed at the subject site. Soil and groundwater samples were submitted for laboratory analysis. Samples exceeded applicable standards for petroleum hydrocarbons, benzo[a]pyrene, lead, and sodium adsorption ration at the subject site at various investigations over the years.

Following the historical research, a site visit was conducted at the subject site and Phase I ESA study area. The site visit did not identify any new Areas of Potential Environmental Concern with respect to the subject site. Surrounding land use is generally residential and commercial

The results of the historical research, personal interviews, and site visit identified the historical presence of Potentially Contaminating Activities at the subject site and at neighbouring properties. The historical presence of the rail yard and 'oil house' at the subject site and the historical industrial uses of the property to the south of the subject site are considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Recommendations

Based on the results of the assessment, **in our opinion, a Phase II-Environmental Site Assessment is required for the property.**

1.0 INTRODUCTION

At the request of Trinity Development Group Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I-ESA) of the property located at 801 Albert Street, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Brad Caco of Trinity. Trinity's offices are located at 3250 Bloor Street West, Suite 1000, Toronto, Ontario. Mr. Caco can be reached by telephone at (416) 255-8800.

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

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

2.0 PHASE I PROPERTY INFORMATION

Address:	801 Albert Street, Ottawa, Ontario.
Legal Description:	Parts 1 through 12, Registered Plan 4R-26480, in the City of Ottawa, Ontario.
Property Identification Number:	04098-0005.
Location:	The subject site is located on the south side of Albert Street, east of the O-Train tracks and west of City Centre Avenue, 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° 24' 34" N, 75° 43' 13" W.
Site Description:	
Configuration:	Irregular.
Site Area:	1.44 hectares (approximate).
Zoning:	MC - Mixed Use Centre Zone.
Current Use:	The subject site is currently vacant, with a gravel access road present along the south boundary of the site.
Services:	The subject site is located 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

According to the chain of title, city directories, and aerial photos, the subject site was initially developed in the early 1900s as a rail yard. The subject site was subsequently used as a snow dump and has been vacant/unused since 1993.

Fire Insurance Plans

Fire Insurance Plans (FIPs) from 1956 were reviewed for the area of the subject property. The 1956 FIPs show the subject site as a Canadian Pacific railway yard, mostly covered with tracks, with ice house and oil house buildings present. The former Wellington Street bridge is present along the south boundary of the subject site. The rail lines and oil house on the subject site represent areas of potential environmental concern with respect to the subject site.

To the south of the subject site, in the vicinity of the present-day City Centre property, a lumber yard, railway lines, and a planing mill were present. Various commercial and industrial activities were identified along Champagne Avenue (present-day City Centre Avenue). The FIPs identified the following Potentially Contaminating Activities within the Phase I study area:

Table 1: FIPs – Potentially Contaminating Activities in Phase I Study Area			
Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
161 Spruce Street	F.W. Argue Limited Garage, 1 UST.	140 m southeast	N
Champagne Avenue North, north of Elm Street	Ottawa Transportation Commission Bus Garage	60 m southeast	N
74 Champagne Avenue North	F.W. Argue Limited Coal Yard, 1 UST	75 m south	N
128 Champagne Avenue North	W.C. Edwards Lumber Yard, 1 UST	100 m south	N
53-63 Breezehill Avenue	Bruce Coal Co. Ltd. and auto repairs	230 m south	N
1000-1002 Somerset Street West	Central Ordnance Depot warehouse	240 m south	N

The off-site PCAs identified within the Phase I study area were not considered to represent Areas of Potential Environmental Concern with respect to the subject site based on their interpreted downgradient and/or crossgradient location with respect to the subject site, separation distance, and/or redevelopment since the date of the FIPs.

FIPs for other years were not reviewed. FIPs are not appended to this report due to copyright issues.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1880 (prior to initial development of the area of the subject site) to 2008 as part of the Phase I ESA.

The current subject site address (801 Albert Street) was not listed in the city directories; however, the subject site was listed with no street number as the CP yards from the 1900s to the 1950s.

The city directories identified the following Potentially Contaminating Activities within the Phase I study area:

Table 2: City Directories – Potentially Contaminating Activities in Phase I Study Area			
Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
1-3 Breezehill Avenue	Automotive service garage (1950s-1960s)	70 m south	N
45 Breezehill Avenue	Canadian Oil Companies Ltd. (1930s-1940s)	130 m south	N
47 Breezehill Avenue	Takaki Automotive (1980s-2000s)	150 m south	N
55 Breezehill Avenue	Automotive Service Garage (1960s-2000s)	230 m south	N
53 Breezehill Avenue	Bruce Fuels yard (1940s-1970s)	240 m south	N
270 City Centre Avenue	Browns Cleaners (2000s)	150 m south	N
145 Spruce Street	R.L. Crain Printers (1910s-1930s)	160 m southeast	N
Bayview Avenue	City of Ottawa Bayview Yards (1920s-present)	220 m west	N

Given the separation distances and/or downgradient location of the PCAs with respect to the subject site, and the results of the previous subsurface investigations at the subject site, the rest of the above-noted PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Chain of Title

Paterson verified the current land title for the subject property with Read Abstracts Limited. The title search dates back to the first available records for the site in 1888.

According to the chain of title dated June 11, 2014, the current owner of the subject property is 2024644 Ontario Inc. The chain of title indicated that the subject site was originally composed of three parcels of land, two of which were road allowances and were originally owned by the City of Ottawa. The majority of the site was owned by a series of individuals until 1918, when it was transferred to the Canadian Pacific Railway Company.

The parcels constituting the subject site were owned by the Canadian Pacific Railway Company until they were transferred to the National Capital Commission between 1969 and 1984. The subject site was transferred to 2024644 Ontario Inc. in 2005.

The historical ownership of the subject site by the Canadian Pacific Railway Company is consistent with the site's past use as a railway yard. The historical ownership of the subject site by the NCC is consistent with its reported past use as a snow dump. The title search did not identify any additional Potentially Contaminating Activities or Areas of Potential Environmental Concern with respect to the subject site.

Current Plan of Survey

A plan of survey, consisting of a legal survey prepared by Annis, O'Sullivan, Vollebekk Limited and dated September 12, 2012, was reviewed as part of this assessment. The survey plan shows the subject site in its current configuration.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 21, 2014. The subject site and properties within the Phase I study area were not listed in the NPRI database.

PCB Inventory

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

Ontario Ministry of Environment (MOE) Instruments

A request was submitted to the MOE Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOE issued instruments for the site. The MOE search did not return any records for the subject site.

MOE Coal Gasification Plant Inventory

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

MOE Incident Reports

A request was submitted to the MOE Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOE for the site or adjacent properties. One incident report from 2013 was returned for the subject site. The incident report consisted of a follow-up regarding a waste generator number for the subject site which was not renewed. The incident report indicated that the subject site was registered with the Hazardous Waste Information Network (HWIN) under the ownership of the National Capital Commission (NCC) as a generator of unspecified liquid waste. The NCC indicated that waste was no longer being generated at the subject site, although no further information was available regarding the nature of the waste.

MOE Waste Management Records

A request was submitted to the MOE Freedom of Information office for information with respect to waste management records. The subject site was registered as a waste generator for an unspecified liquid waste. The National Capital Commission (NCC) was listed as the owner of the site. No further information was available regarding the nature of the waste.

MOE Submissions

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

MOE Brownfields Environmental Site Registry

A search of the MOE Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. One RSC was filed for the properties at 989 Somerset Street West and 160 Spruce Street. The RSC was filed by Paterson in 2004, and acknowledged by the MOE.

MOE Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. Based on the available information, former waste disposal sites were located to the northwest of the subject site in the vicinity of Burnside Avenue, Bayview Avenue, and Slidell Street, but are not considered to have the potential to have impacted the subject site due to their downgradient location.

Areas of Natural Significance

The Ministry of Natural Resources Biodiversity Explorer online tool was consulted on May 21, 2014. No areas of natural significance were identified within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on May 21, 2014 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The TSSA search did not return any records for the subject site or 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. Former landfill sites are present to the northwest of the subject site in the vicinity of Bayview Avenue, Burnside Avenue, and Slidell Street. These sites are not considered to have the potential to have impacted the subject site due to their downgradient location.

Previous Environmental Reports

The following environmental reports were reviewed as a part of this assessment:

- 'Phase I-II Environmental Site Assessment, Scott at Champagne Property, City of Ottawa', prepared by Oliver, Mangione, McCalla and Associates (A Division of Trow), dated February 1998.
- 'Phase II Environmental Site Assessment, Vacant Commercial Property, Scott Street at Champagne Avenue North, Ottawa, Ontario', prepared by John D. Paterson and Associates Limited, dated May 8, 2001

- 'Phase I Environmental Site Assessment, Vacant Property, Intersection of Scott Street and Champagne Avenue, Ottawa, Ontario', prepared by Trow Associates Inc., dated December 2007.

The 1998 OMM/Trow report indicated that the subject site was vacant at the time of the assessment and had previously been used as a rail yard and, more recently, as a snow dump. The site was reportedly used as a snow dump as recently as the winter of 1992/1993. The OMM/Trow report referenced an earlier Phase II ESA by Consor which indicated that sodium adsorption ratio (SAR) and total petroleum hydrocarbon (TPH) values at the subject site exceeded applicable standards. Based on the past uses of the subject site, and on other potentially contaminating activities in the vicinity, a Phase II ESA was recommended for the subject site.

The subsurface investigation component of the 1998 Phase I-II ESA consisted of the drilling of five (5) boreholes, three (3) of which were equipped with groundwater monitoring wells. The locations of the OMM/Trow boreholes are shown on Drawing PE3302-1 - Site Plan, appended to this report. Soil samples were submitted for analysis of TPH, metals, and polycyclic aromatic hydrocarbons (PAHs). Groundwater samples were submitted for analysis of metals. Results were compared to the MOE Table A (potable) and Table B (non-potable) standards in effect at the time, as well as to the CCME standards applicable to federal sites. Concentrations of benzo[a]pyrene, boron, and copper in soil exceeded the CCME and/or MOE standards. All groundwater samples were in compliance with the applicable standards.

In 2001, Paterson completed a subsurface investigation at the subject site, consisting of the excavation of 11 test pits. Test pit locations are shown on Drawing PE3302-1, appended to this report. A total of seven (7) soil samples were submitted for analysis of metals, PAHs, and TPH, and two (2) groundwater samples from the existing OMM/Trow monitoring wells were submitted for analysis of metals. Results were compared to MOE Table B standards in effect at the time. Concentrations of benzo[a]pyrene in soil at TP2 and lead in soil at TP3 exceeded the Table B standards. All other results were in compliance with MOE Table B standards.

The 2007 Trow Phase I ESA summarized the findings of the previous work at the subject site and indicated that no additional APECs were identified with respect to the subject site.

Additionally, the following geotechnical reports were available for review:

- 'Consolidated Report, Geotechnical Investigation, Proposed Residential Development, 801 Albert Street, Ottawa, Ontario', prepared by Trow Associates Inc., dated February 10, 2011.
- 'Consolidated Report, Geotechnical Investigation (Draft), Proposed Commercial Development, 801 Albert Street, Ottawa, Ontario', prepared by exp, dated March 2, 2012.

The Trow and exp geotechnical reports provided a summary of subsurface conditions at the subject site. Soil and groundwater conditions are discussed further in subsequent sections. The geotechnical reports identified fill material at the subject site, which corresponds to the samples submitted for laboratory analysis in the above noted environmental reports. The geotechnical reports did not identify any additional areas of potential environmental concern with respect to the subject site.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. The HLUI returned two records with respect to the subject site:

- Mutual Oil Production Company (petroleum and coal products industry), 1888-1900 (interpreted to be associated with rail yards at subject site).
- Canadian Pacific Railway Yard (machine shop industry), 1901-1956.

The presence of the rail yard and associated activities (including coal and/or oil storage at the subject site) are considered to represent potentially contaminating activities with respect to the subject site.

The HLUI search returned 28 records in the area of the subject site. Upon review of the search information for the subject site and for other projects within the Phase I study area with respect to the list of Potentially Contaminating Activities identified under O.Reg. 153/04 as amended by O.Reg. 269/11, ten (10) of the HLUI search results were considered to represent Potentially Contaminating Activities. HLUI search results are summarized below:

Table 3: HLUI – Potentially Contaminating Activities in Phase I Study Area					
HLUI #	Address	Listed Activity	Years Listed	Distance / Orientation from site	PEC (Y / N)
3972	1010 Somerset Street West	Dept. Of Supply and Services (commercial printing)	1950s-1980s	240 m south	N
2096	6 Champagne Avenue North	Browns Cleaners	1990s-2000s	150 m south	Y
4105	Wellington Street	Jules Patry Limited (other chemical products)	1990s-2000s	170 m south	N
5422	128 Champagne Avenue	F.W. Argue (fuel, lumber, coal)	1930s-1960s	140 m southeast	N
5312	161 Spruce Street	F.W. Argue (fuel, lumber, coal)	1940s-1960s	140 m southeast	N
1050	145 Spruce Street	Alexander Battery Corporation	2000s	160 m southeast	N
14243	145 Spruce Street	Union Engraving Co. Ltd.	1980s-2000s	160 m southeast	N
3825	164 Elm Street	Mansfield and Rodney Printers Co. Ltd.	1980s-2000s	180 m southeast	N
8804	148 Spruce Street	Montreal-Ottawa Express Ltd.	1940s-1960s	240 m southeast	N
12086	Bayview Road	Region of Ottawa-Carleton Bayview Yards	1990s	220 m west	N

Based on separation distance, downgradient and/or crossgradient location, redevelopment of many of the above noted sites, and the results of previous environmental reports, the majority of the HLUI results are not considered to identify any new APECs with respect to the subject site.

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 subject site consists of rail yards. The cattle pens and 'oil house' building are visible as shown on the FIPs. Wellington Street is present along the south boundary of the subject site. City Centre Avenue (formerly Champagne Avenue) is present in its current configuration. The current City Centre property is occupied by lumber stockpiles. A railway roundhouse is present to the west, and timber booms are present to the north in the Ottawa River. Land use in the Phase I study area is generally industrial and commercial. |
| 1946 | No significant changes have been made to the subject site or neighbouring properties. |
| 1958 | No significant changes have been made to the subject site or neighbouring properties. |
| 1966 | No significant changes have been made to the subject site. The lumber yard to the south has been redeveloped with the present-day City Centre building. |
| 1971 | The railway tracks and buildings have been removed from the subject site. Albert Street/Scott Street has been realigned to its present location, and the Wellington Street bridge has been removed. The present-day O-Train tracks are present in their current configuration to the west of the subject site. |
| 1976 | No significant changes have been made to the subject site or neighbouring properties. |
| 1980 | No significant changes have been made to the subject site or neighbouring properties. |

1995	No significant changes have been made to the subject site or neighbouring properties.
2002	(City of Ottawa Website) No significant changes have been made to the subject site or neighbouring properties.
2005	(City of Ottawa Website) No significant changes have been made to the subject site or neighbouring properties.
2011	(City of Ottawa Website) No significant changes have been made to the subject site or surrounding properties.

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

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website, the City of Ottawa website, and a topographical survey of the subject site prepared by Stantec. The topographic maps indicate that the elevation of the subject site is approximately 55 to 60 m ASL. A steep embankment sloping downward from Albert Street is present along the north portion of the site, and the remainder of the site slopes gently to the west towards the O-Train tracks. Regional topography slopes gently downward to the north, towards the Ottawa River. According to the maps, the nearest water body is the Ottawa River, located approximately 320 m to the north of the site. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

The Ontario Geological Survey publication ‘The Physiography of Southern Ontario, Third Edition’ was reviewed as a part of this assessment. According to the publication and attached mapping, the site is situated within the Ottawa Valley Clay Plains physiographic region, described as “clay plains interrupted by ridges of rock or sand”. Mapping shows the subject site as situated on an area of shallow till and rock ridges.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area and the borehole logs from the previous subsurface investigations at the subject site were consulted as part of this assessment. Based on this information and on the 2014 subsurface investigation, bedrock in the area of the site consists of interbedded limestone and shale of the Verulam Formation. A bedrock fault is present to the northwest of the subject site. Overburden consists of fill over silty clay underlain by glacial till, with practical refusal to augering and/or sampling encountered between 5 and 14 m below existing grade. Groundwater was encountered at depths ranging from 1.84 to 7.68 m below existing grade.

Water Well Records

A search of the MOE's web site for all drilled well records within 250 m of the subject site was conducted on May 20, 2014. The search returned 62 well records within the Phase I study area, one of which was located on the subject property and was associated with the monitoring wells installed by Trow. The remainder of the well records were for off-site wells.

Based on drilling dates and construction details, two (2) of these wells appear to be water wells drilled between 1963 and 1975. The remaining wells appear to be monitoring wells drilled by others between 2006 and 2009, and are located on the property to the south at 255 City Centre Avenue. Given the presence of municipal water services within the subject area, it is our interpretation that there are currently no drinking water wells located within the Phase I study area.

Water Bodies and Areas of Natural Significance

No creeks, rivers, streams, lakes or any other water body was identified in the Phase I study area. The Ottawa River is the closest significant water body and is present approximately 320 m north of the site. No areas of natural significance are known to exist within the Phase I study area.

5.0 INTERVIEWS

Property Owner Representative

Mr. Michael Boucher of DCR/Phoenix Homes was interviewed by email throughout the Phase I ESA process. Mr. Boucher was selected for interview based on his position as representative of DCR/Phoenix Homes, owners of the subject site, and based on his familiarity with the subject site.

Mr. Boucher was aware of the previous environmental work undertaken at the subject . The interview did not identify any unknown Potentially Contaminating Activities with respect to the subject site.

The information obtained in this interview is consistent with site information obtained from other sources and is considered to be valid.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on May 23, 2014. Weather conditions were sunny, with a temperature of approximately 20° C. Mr. Dan Arnott from the Environmental Department of Paterson Group conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

There are currently no buildings or structures on the subject site.

Underground Utilities

Underground service locates were prepared for the subject site in May 2014 in preparation for a geotechnical investigation and Phase II ESA at the subject site. Electrical services to the subject site are overhead. Telecommunications services are present in the vicinity of a small building to the southwest of the subject site. Two sewer lines, the Mooney's Bay Outfall Sewer and the West Nepean Collector, are present on the subject site.

Site Features

The subject site consists of a vacant parcel of land. A gravel access road is present along the southern site boundary. The monitoring wells from the Trow investigation were observed on the subject site. Manholes associated with the above noted sewer lines were noted. The ground surface at the subject site is covered by grass, brush, and trees. An embankment is present along the north site boundary, sloping downward from Albert Street. The remainder of the subject site slopes gently downward in a southwesterly direction towards the O-Train tracks. Site drainage consists primarily of infiltration.

No evidence of stained soil, vegetation, or pavement, or stressed vegetation were observed on the subject site. Several fill piles, including asphalt, were observed at the subject site. No evidence of recent soil disturbance was observed; however, based on the presence of the sewer lines on the subject site, excavation and re-grading is considered to have occurred in the past concurrently with the installation of these services.

No underground drains, pits, or sumps were observed on the exterior of the subject site during the site visit. No drinking water wells or private sewage systems were observed on the subject property, nor are any expected to be present, as the site is located in a municipally-serviced area. No evidence of current or former railway or spur lines on the subject property were observed at the time of the site inspection, although rail lines are known to have historically been present on-site. There were no unidentified substances observed on the subject site.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site was as follows:

- North - Albert Street, followed by the Transitway and vacant land;
- South - City Centre multi-unit commercial building and Brown's Cleaners, followed by Somerset Street West;
- East - City Centre Avenue, followed by residential dwellings and commercial buildings;
- West - O-Train rail line and walking/cycling trail, followed by the Tom Brown Arena.

Potentially Contaminating Activities within the Phase I study area are not considered to represent APECs with respect to the subject site. Property use within the Phase I study area is shown on Drawing PE3302-2 - Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

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

Table 4 - Land Use History – 801 Albert Street			
Time Period	Land Use	Potentially Contaminating Activities	Areas of Potential Environmental Concern
Prior to 1900	Vacant / Agricultural	None	None
1900 to 1960s	Commercial	Rail yards, 'oil house' on-site	Yes
1960s to 1993	Commercial	City of Ottawa snow dump	Yes
1993-present	Commercial	Vacant	None

Potentially Contaminating Activities

As stated in the above table, PCAs at the Phase I property include the historical presence of rail yards and the historical presence of the snow dump. Additional Potentially Contaminating Activities were present within the Phase I study. Based on their separation distance and/or their inferred downgradient or cross-gradient location with respect to the subject site and previous investigations, the off-site PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Areas of Potential Environmental Concern

The Areas of Potential Environmental Concern identified in this Phase I ESA are summarized below in Table 5. Other Potentially Contaminating Activities within the Phase I study area are not considered to pose an environmental concern to the subject site due to their separation distance and/or location downgradient or cross-gradient of the subject site.

Table 5 - Areas of Potential Environmental Concern					
Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern with respect to Phase I Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
Subject site	On-site PCA (majority of subject site)	Rail yards; Item 46, Table 2, O.Reg. 153/04 (Rail Yards, Tracks, and Spurs)	Off-site	Metals, PAHs	Soil, Groundwater
Subject site	On-site PCA (northwest corner)	'Oil House' identified on FIPs; Item 28, Table 2, O.Reg. 153/04 (Gasoline and Associated Products Storage in Fixed Tanks).	On-site	BTEX, PHCs	Soil, Groundwater

Contaminants of Potential Concern

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

- Volatile Organic Compounds (VOCs) – this suite of parameters includes chlorinated solvents (Tetrachloroethylene, Trichloroethylene, Dichloroethylenes, and Vinyl Chloride) associated with de-greasing and dry cleaning. These parameters were selected as CPCs for the Phase I study area due to the historical activities at the subject site and adjacent properties. VOCs may be present in the soil matrix as well as in the dissolved phase in the groundwater system.
- BTEX – this suite of parameters includes Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), associated with gasoline. These parameters were selected as CPCs for the Phase I study area based on the historical presence of the 'oil house' on the subject site as identified by the Fire Insurance Plans. BTEX may be present in the soil matrix as well as in the dissolved phase in the groundwater system.
- Metals – this suite of parameters encompasses various metals for which MOE standards exist. Metals may be present in the soil matrix or dissolved in site groundwater. Metals were selected as CPCs for the Phase I property based on the historical presence of the rail lines on the subject site.
- Petroleum Hydrocarbons Fractions 1 through 4 (PHCs F1-F4) – this suite of parameters encompasses gasoline (Fraction 1), diesel and fuel oil (Fraction 2), and heavy oils (Fractions 3 and 4). PHCs F1-F4 were

selected as CPCs for the Phase I property based on the historical presence of the 'oil house' identified on the subject site by the FIPs. Gasoline and diesel are commonly used motor vehicle fuels, and diesel-fraction hydrocarbons were commonly used as heating oil. Heavy oils may be present in the form of lubricants and transmission or hydraulic fluids. PHCs may be present in the soil matrix, sorbed to soil particles, as well as in free or dissolved phase in the groundwater system. PHCs are generally considered to be LNAPLs – light non-aqueous phase liquids, indicating that when present in sufficient concentrations above the solubility limit, they will partition into a separate phase above the water table, due to their lower density.

- Polycyclic Aromatic Hydrocarbons (PAHs) – this suite of parameters encompasses various complex hydrocarbons, commonly associated with coal and/or combustion. PAHs were selected as a CPC for the site based on the historical presence of the rail lines on the subject site. PAHs may be present in the soil matrix or dissolved in site groundwater.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The Phase I property is located in an area of silty clay underlain by glacial till, with the bedrock surface encountered between 5 and 14 m below existing ground surface. Based on the results of previous and current subsurface investigations at the site, groundwater was encountered at depths ranging from 1.84 to 7.68 m below existing grade.

Contaminants of Potential Concern

As per Section 7.1 of this report, the contaminants of potential concern at the subject site are BTEX, PHCs, metals, and PAHs in soil and BTEX, PHCs, VOCs, metals, and PAHs in groundwater.

The mechanisms of contaminant transport within the site soils include physical transportation and leaching. Physical transportation includes any intentional or unintentional movement or distribution of soil by physical means. Contamination arising from localized spills or runoff from the washing area on-site may be physically transported by vehicle movement or site grading. Leaching may occur in areas where the ground surface consists of gravel or where asphalt quality is poor; precipitation infiltrating in these areas may transport surficial contaminants into lower strata. As such, this mechanism represents a potential pathway for soil contaminants to migrate into site groundwater.

The mechanisms of contaminant transport within the groundwater system include advection, dispersion, and diffusion. Advection and dispersion will be the dominant mechanisms of contaminant transport in soils with higher hydraulic conductivities, such as sands, gravels, silts, and some glacial till soils, whereas diffusion will dominate in soils with lower hydraulic conductivity, such as clays.

Existing Buildings and Structures

There are currently no buildings or structures present at the subject site.

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 320 m to the north of the site.

Areas of Natural Significance

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

Drinking Water Wells

A search of the MOE water well database returned 62 water well records within the Phase I study area, of which two (2) are drinking water wells and the remainder are monitoring wells. Based on the availability of municipal water within the Phase I ESA study area, these drinking water wells are no longer considered to be in use.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is currently commercial and residential.

Potentially Contaminating Activities and Areas of Potential Environmental Concerns

Potentially contaminating activities at the Phase I property include the historical presence of rail lines and an 'oil house' on the subject site. Additional Potentially Contaminating Activities were present within the Phase I study area. Based on their separation distance and/or their inferred downgradient or cross-gradient location with respect to the subject site and previous investigations, the off-site PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are Areas of Potential Environmental Concern with respect to the subject site. The presence 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

The results of the historical research, personal interviews, and site inspection indicated the presence of historical potentially-contaminating activities and potential environmental concerns at the subject site. Based on the results of this Phase I ESA, **in our opinion, a Phase II Environmental Site Assessment is required for the property.**

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.

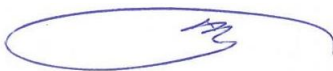
Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

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

Paterson Group Inc.



Daniel J. Arnott, P.Eng.



Mark S. D'Arcy, P.Eng.



Report Distribution:

- Trinity Development Group Inc.
- 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

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

Municipal Records

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

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, June 2014.
Current Plan of Survey, prepared by Annis, O’Sullivan, Vollebekk Limited, September 2012.
‘Phase I-II Environmental Site Assessment, Scott at Champagne Property, City of Ottawa’, prepared by Oliver, Mangione, McCalla and Associates (A Division of Trow), dated February 1998.
‘Phase II Environmental Site Assessment, Vacant Commercial Property, Scott Street at Champagne Avenue North, Ottawa, Ontario’, prepared by John D. Paterson and Associates, dated May 8, 2001.

'Phase I Environmental Site Assessment, Vacant Property, Intersection of Scott Street and Champagne Avenue, Ottawa, Ontario', prepared by Trow Associates Inc., dated December 2007.

'Consolidated Report, Geotechnical Investigation, Proposed Residential Development, 801 Albert Street, Ottawa, Ontario', prepared by Trow Associates Inc., dated February 10, 2011.

'Consolidated Report, Geotechnical Investigation (Draft), Proposed Commercial Development, 801 Albert Street, Ottawa, Ontario', prepared by exp, dated March 2, 2012.

Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3302-1 – SITE PLAN

DRAWING PE3302-2 – SURROUNDING LAND USE

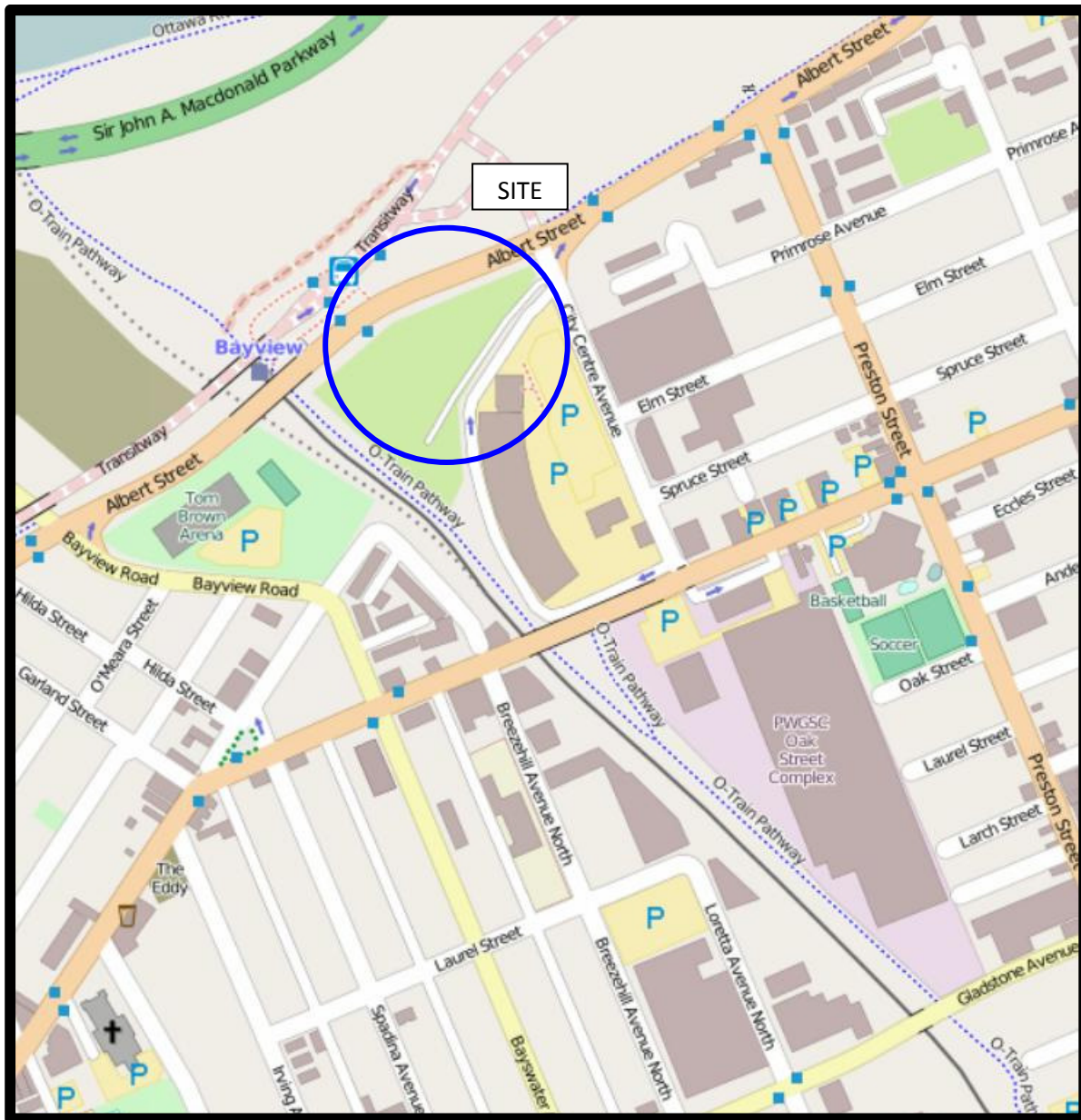


FIGURE 1
KEY PLAN

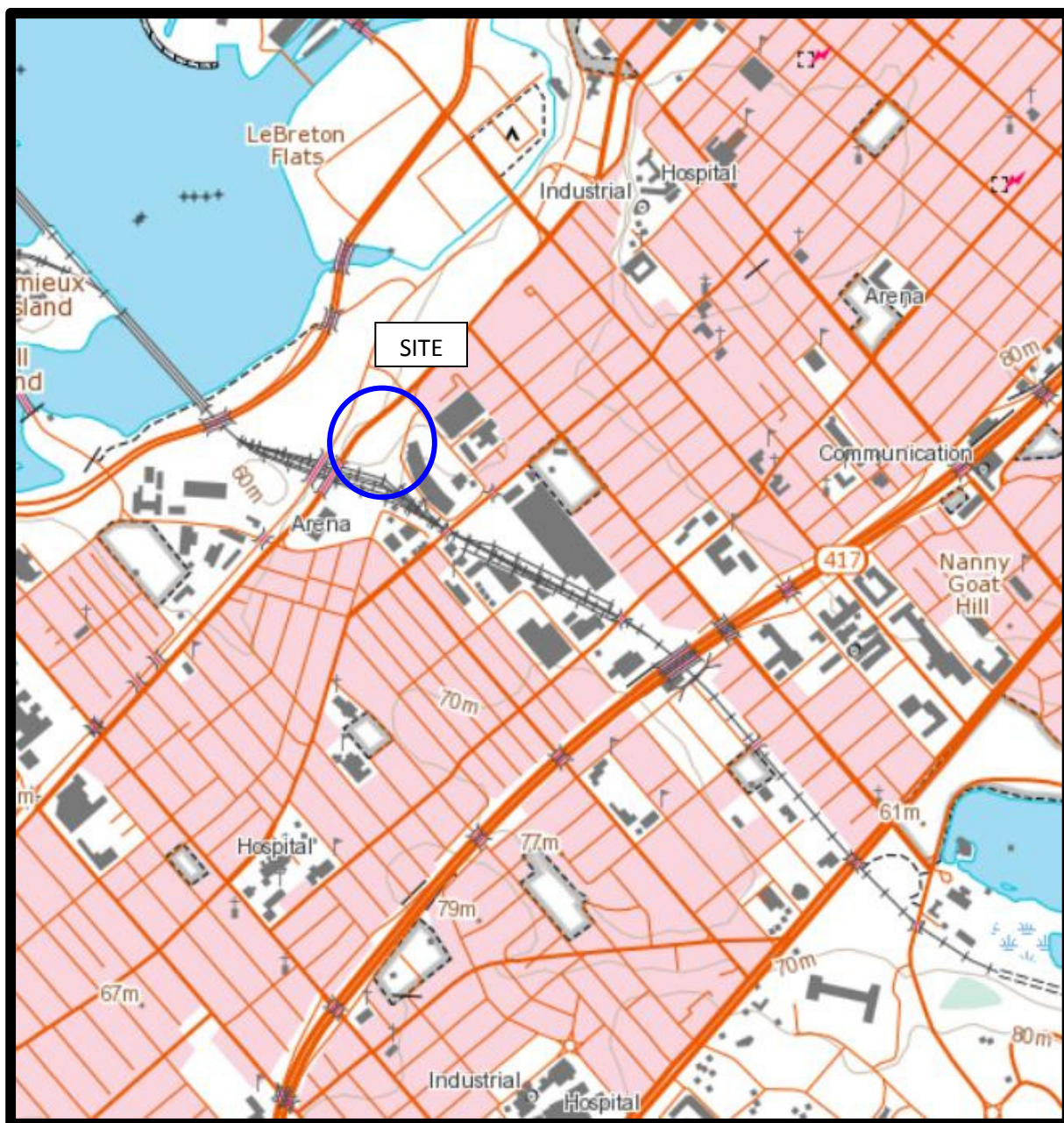
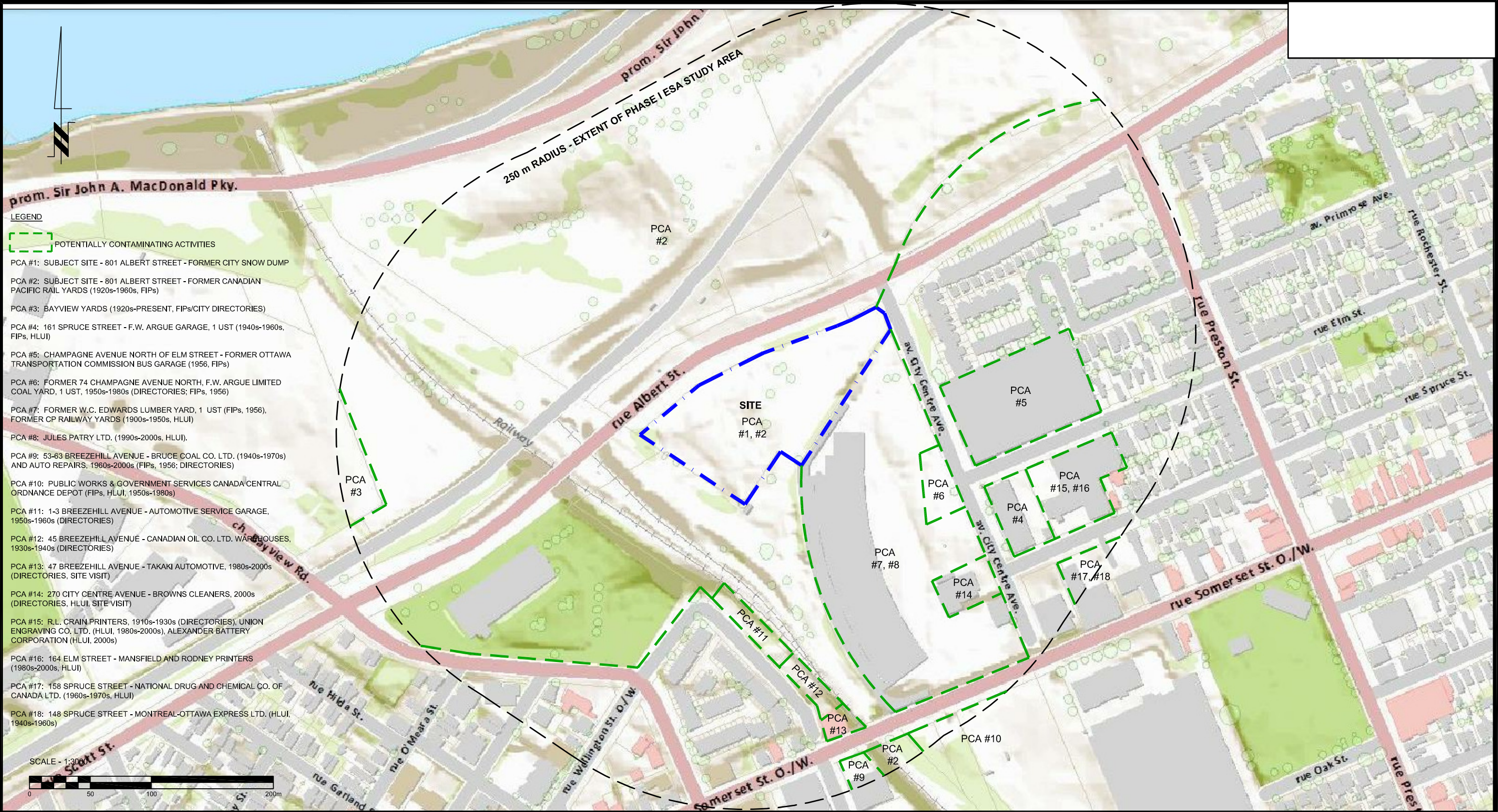


FIGURE 2
TOPOGRAPHIC MAP



<div><div>patersongroup</div><div>consulting engineers</div><div>154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613)226-7381 Fax: (613) 226-6344</div></div>					OTTAWA, Title:	TRINITY DEVELOPMENT GROUP PHASE I - ENVIRONMENTAL SITE ASSESSMENT VACANT SITE, 801 ALBERT STREET ONTARIO SURROUNDING LAND USE PLAN	Drawn by: DJA	Checked by: MSD	Date: 05/2014
							Scale:	1:3000	Drawing No.:
							Report No.:	PE3302-1	PE3302-2
NO.	REVISIONS	DATE	INITIAL						

APPENDIX 1

CHAIN OF TITLE

CURRENT PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



READ Abstracts Limited

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

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

June 11, 2014

Patersongroup

Attn: Daniel Arnott

RE: PO#16355 Project #PE3302

BRIEF DESCRIPTION OF LAND:

801 Albert St, Ottawa

Part lot 38, Con 1 OF, Part of the Road Allowance

Between Con A and 1 OF as closed by bylaw 31-21

Registered as CR103746, part 12 on 4R1262, part

24 and 27 on 4R472, part of parts 28-31 on 4R472,

Lying south of part 12 on 4R1262, & Part Wellington

St, formerly known as Richmond Road, closed by bylaw

CR621716, being parts 21 and 22 on 4R211 except part

4 on 4R1262

PIN: 04098-0005

LAST REGISTERED OWNER: 2024644 ONTARIO INC.

CHAIN OF TITLE:

Part lot 38, Con 1 OF

Deed 99398 registered Sept 20, 1910

From Margaret A. Lee and Alfred Lee to John R. Osborne as to ½ int

Deed 113577 registered June 15, 1912

From Margaret A. Lee to Edith O'Reilly as to ½ int

Deed 120098 registered June 9, 1913

From John R. Osborne and Edith O'Reilly to William L. Scott

Deed 142457 registered May 22, 1918
From William L. Scott to Canadian Pacific Railway Company

Quit Claim Deed 553943 registered Jan 21, 1969
From Canadian Pacific Railway Company to National Capital Commission

Deed OC433619 registered Feb 15, 2005
From National Capital Commission to 2024644 Ontario Inc.

***According to deeds 99398 and 113577, John Martin was the owner of the lands until he died on Feb 16, 1910 leaving his daughter Margaret Lee as heir. We could not find any deed to John Martin and therefore cannot confirm title prior to this point.

Part Wellington St, formerly known as Richmond Road

Deed NS224913 registered Jan 6, 1984
From The Corporation of the City of Ottawa to National Capital Commission

Deed OC433619 registered Feb 15, 2005
From National Capital Commission to 2024644 Ontario Inc.

Road Allowance between Con A and 1 OF

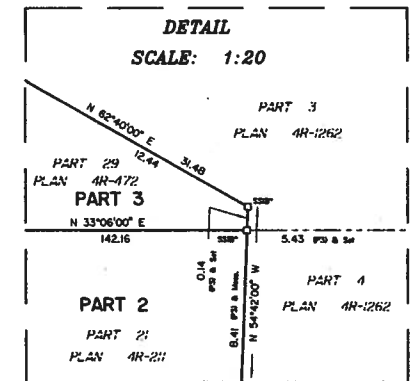
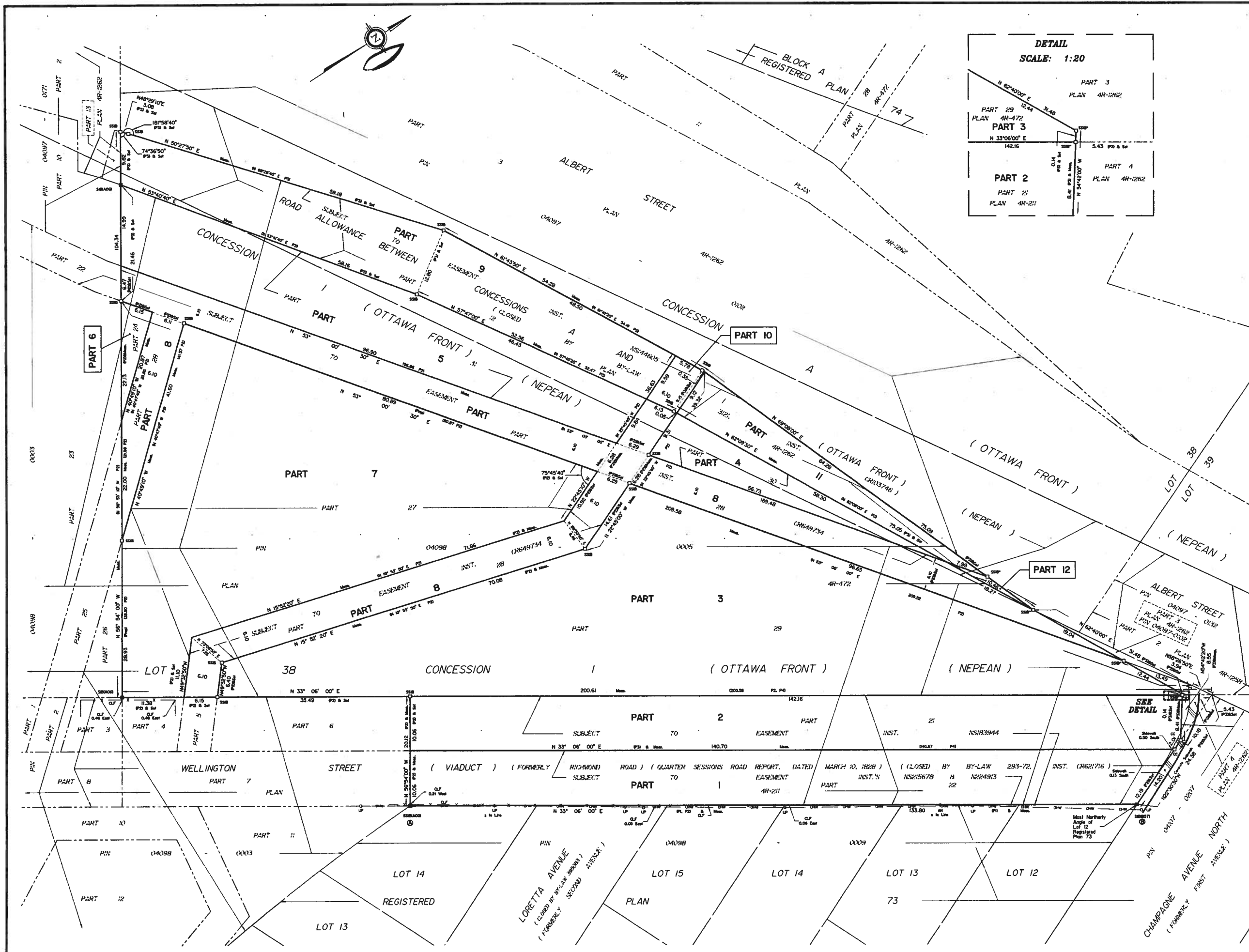
Deed 106374 registered Aug 21, 1911
From City of Ottawa to Canadian Pacific Railway Company

Deed 745 registered Dec 20, 1888
From The Corporation of the Township of Nepean to Canadian Pacific Railway Company

Deed 747 registered Dec 20, 1888
From The Corporation of the Township of Nepean to Canadian Pacific Railway Company

Quit Claim Deed 553943 registered Jan 21, 1969
From Canadian Pacific Railway Company to National Capital Commission

Deed OC433619 registered Feb 15, 2005
From National Capital Commission to 2024644 Ontario Inc.



1 REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.
DATE: Sept 12, 2012
RECEIVED AND DEPOSITED
DATE: Sept 12, 2012
F. Lamont
EDWARD M. LANCASTER
ONTARIO LAND SURVEYOR
LAND REGISTRAR FOR THE
LAND TITLES DIVISION OF
OTTAWA-CARLETON NO. 4.

SCHEDULE		
PART	DESCRIPTION	ALL OF PIN
1	Part of Lot 38 Concession 1 (Ottawa Front)	04088-0005
2	Part of Lot 38 Concession 1 (Ottawa Front)	
3	Part of Lot 38 Concession 1 (Ottawa Front)	
4	Part of Lot 38 Concession 1 (Ottawa Front) and Part of the Road Allowance between Concessions A & 1 (Ottawa Front) (As Closed by By-Law 3121, Inst. CR103746)	
5	Part of Lot 38 Concession 1 (Ottawa Front)	
6	Part of Lot 38 Concession 1 (Ottawa Front)	
7	Part of Lot 38 Concession 1 (Ottawa Front)	
8	Part of Lot 38 Concession 1 (Ottawa Front) and Part of the Road Allowance between Concessions A & 1 (Ottawa Front) (As Closed by By-Law 3121, Inst. CR103746)	
9	Part of Lot 38 Concession 1 (Ottawa Front)	
10	Part of Lot 38 Concession 1 (Ottawa Front)	
11	Part of Lot 38 Concession 1 (Ottawa Front)	
12	Part of Lot 38 Concession 1 (Ottawa Front)	

Part 1: Subject to easement Inst.'s NS215878, NS183944 and NS24813.
Part 2: Subject to easement Inst. NS183944.
Parts 8 and 10: Subject to easement Inst. CR649734.
Parts 9, 10 and 11: Subject to easement Inst. NS144805.
Part 12: Subject to easement Inst.'s CR649734 and NS144805.

PLAN OF SURVEY OF
PART OF LOT 38
CONCESSION 1 (OTTAWA FRONT)
And
PART OF THE ROAD ALLOWANCE
BETWEEN CONCESSIONS A And 1
(OTTAWA FRONT)
(As Closed by By-Law 3121, Inst. CR103746)
Geographic Township of Nepean
CITY OF OTTAWA
Surveyed by Annis, O'Sullivan, Vollebakk Ltd.

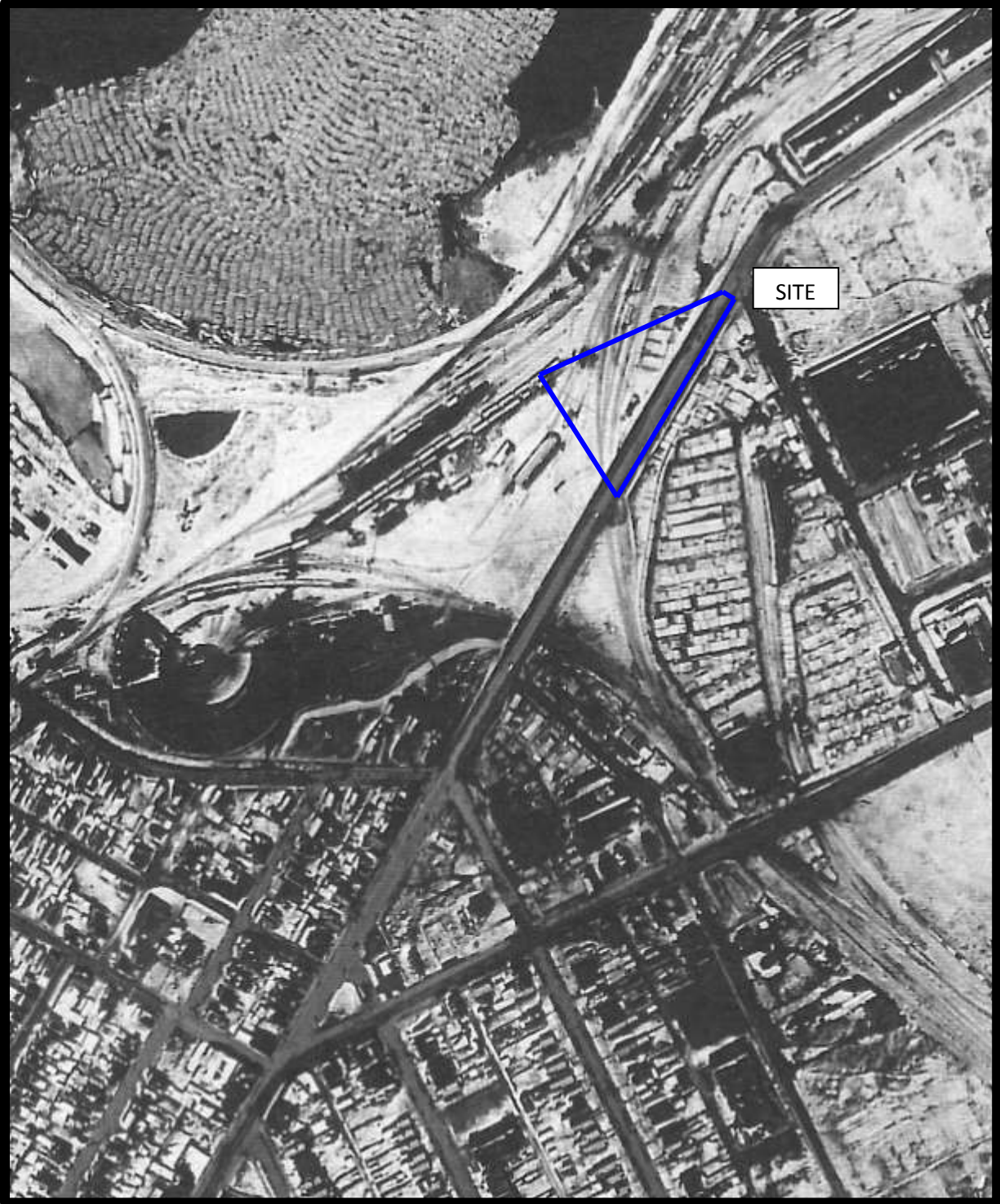
Scale 1:300
Metric
DISTANCES AND COORDINATES SHOWN ON THIS PLAN
ARE IN METRES AND CAN BE CONVERTED TO FEET BY
DIVIDING BY 0.3048.

Surveyor's Certificate
I CERTIFY THAT:
1. This survey and plan are correct and in accordance with the Survey Act, the Surveyors Act, the Land Titles Act and the regulations made under them.
2. The survey was completed on the 9th day of July, 2012.
Sept 12, 2012 Edward M. Lancaster
Date
Edward M. Lancaster
Ontario Land Surveyor

- Notes & Legend
- Denotes Survey Monument Planted
 - SB— Survey Monument Found
 - SB— Standard Iron Bar
 - SB— Short Standard Iron Bar
 - IB— Iron Bar
 - CC— Survey Monument (0.3 long)
 - CC— Cut Cross
 - (WIT)— Witness
 - (ACC)— Annis, O'Sullivan, Vollebakk Ltd.
 - M— Measured
 - (Prop)— Proportion
 - CLF— Chain Link Fence
 - CLF— Overhead Wire
 - CLF— Utility Pole
 - O.P.— Anchor
 - (P1)— (887) Plan, November 8, 1990
 - (P2)— Plan AR-472
 - (P3)— Plan AR-1282
 - (P4)— Plan AR-211

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.99983.
Bearings are MTM grid, derived from simultaneous GPS observations from monument A to B, shown hereon, having a bearing of N 33°06'00" E and are referred to the Central Meridian of MTM Zone 9 (78°30' West Longitude) MTM NAD-83 (original).
Coordinate values are to urban accuracy in accordance with O. Reg. 216/10.
Point A Northing 5030191.78 Easting 365891.15
Point B Northing 5030303.87 Easting 365894.21
Caution: Coordinates cannot, in themselves, be used to re-establish corners or boundaries shown on this plan.

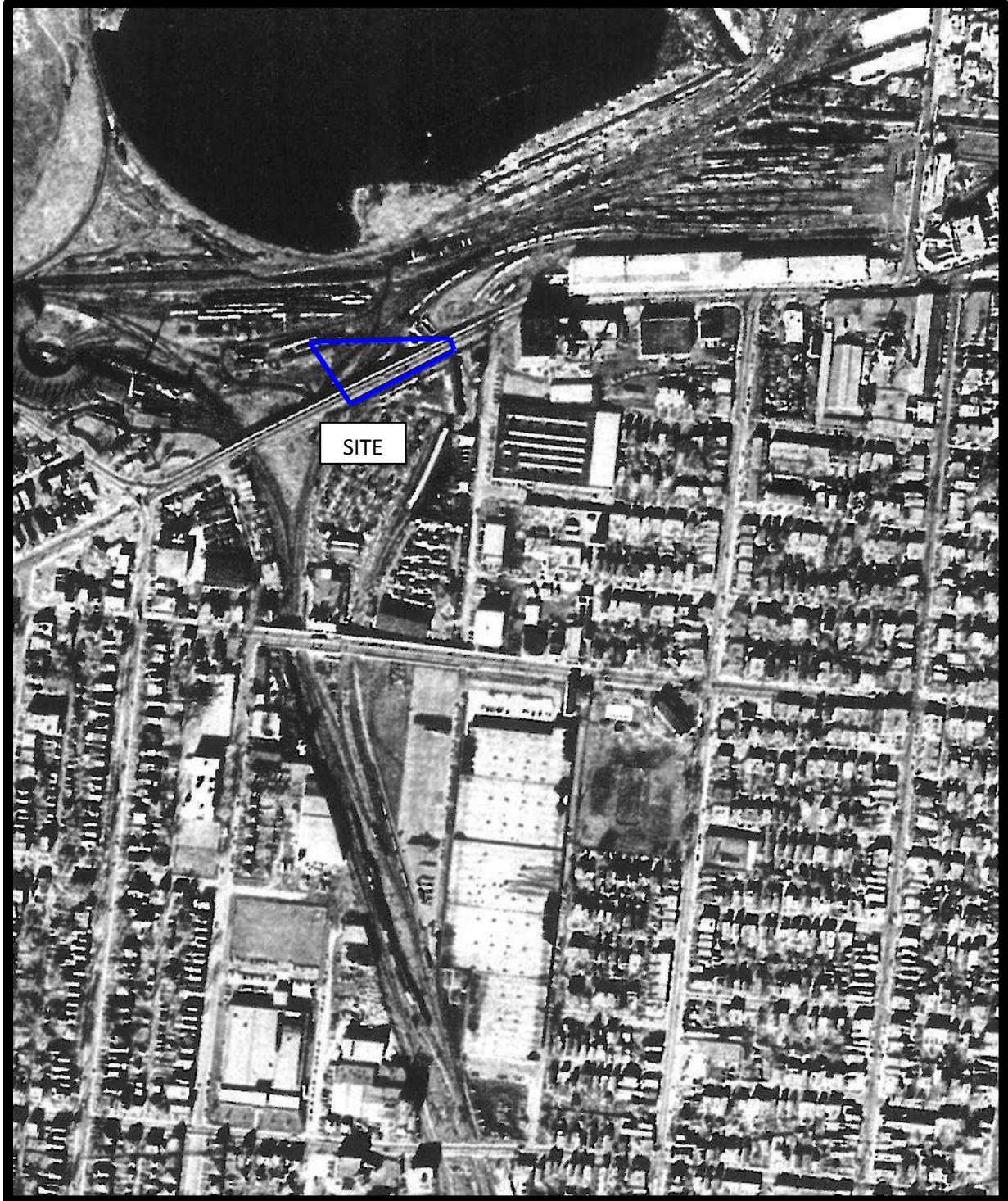
ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
14 Concordia Gate, Suite 500
Nepean, Ont. K2E 7S9
Phone: (613) 727-0880 / Fax: (613) 727-1078
Email: info@anniso.com
Ontario
Land Surveyors Act No. 1990-21, 1992-21, 1993-21, 1994-21, 1995-21, 1996-21, 1997-21, 1998-21, 1999-21, 2000-21, 2001-21, 2002-21, 2003-21, 2004-21, 2005-21, 2006-21, 2007-21, 2008-21, 2009-21, 2010-21, 2011-21, 2012-21, 2013-21, 2014-21, 2015-21, 2016-21, 2017-21, 2018-21, 2019-21, 2020-21, 2021-21, 2022-21, 2023-21, 2024-21, 2025-21, 2026-21, 2027-21, 2028-21, 2029-21, 2030-21, 2031-21, 2032-21, 2033-21, 2034-21, 2035-21, 2036-21, 2037-21, 2038-21, 2039-21, 2040-21, 2041-21, 2042-21, 2043-21, 2044-21, 2045-21, 2046-21, 2047-21, 2048-21, 2049-21, 2050-21, 2051-21, 2052-21, 2053-21, 2054-21, 2055-21, 2056-21, 2057-21, 2058-21, 2059-21, 2060-21, 2061-21, 2062-21, 2063-21, 2064-21, 2065-21, 2066-21, 2067-21, 2068-21, 2069-21, 2070-21, 2071-21, 2072-21, 2073-21, 2074-21, 2075-21, 2076-21, 2077-21, 2078-21, 2079-21, 2080-21, 2081-21, 2082-21, 2083-21, 2084-21, 2085-21, 2086-21, 2087-21, 2088-21, 2089-21, 2090-21, 2091-21, 2092-21, 2093-21, 2094-21, 2095-21, 2096-21, 2097-21, 2098-21, 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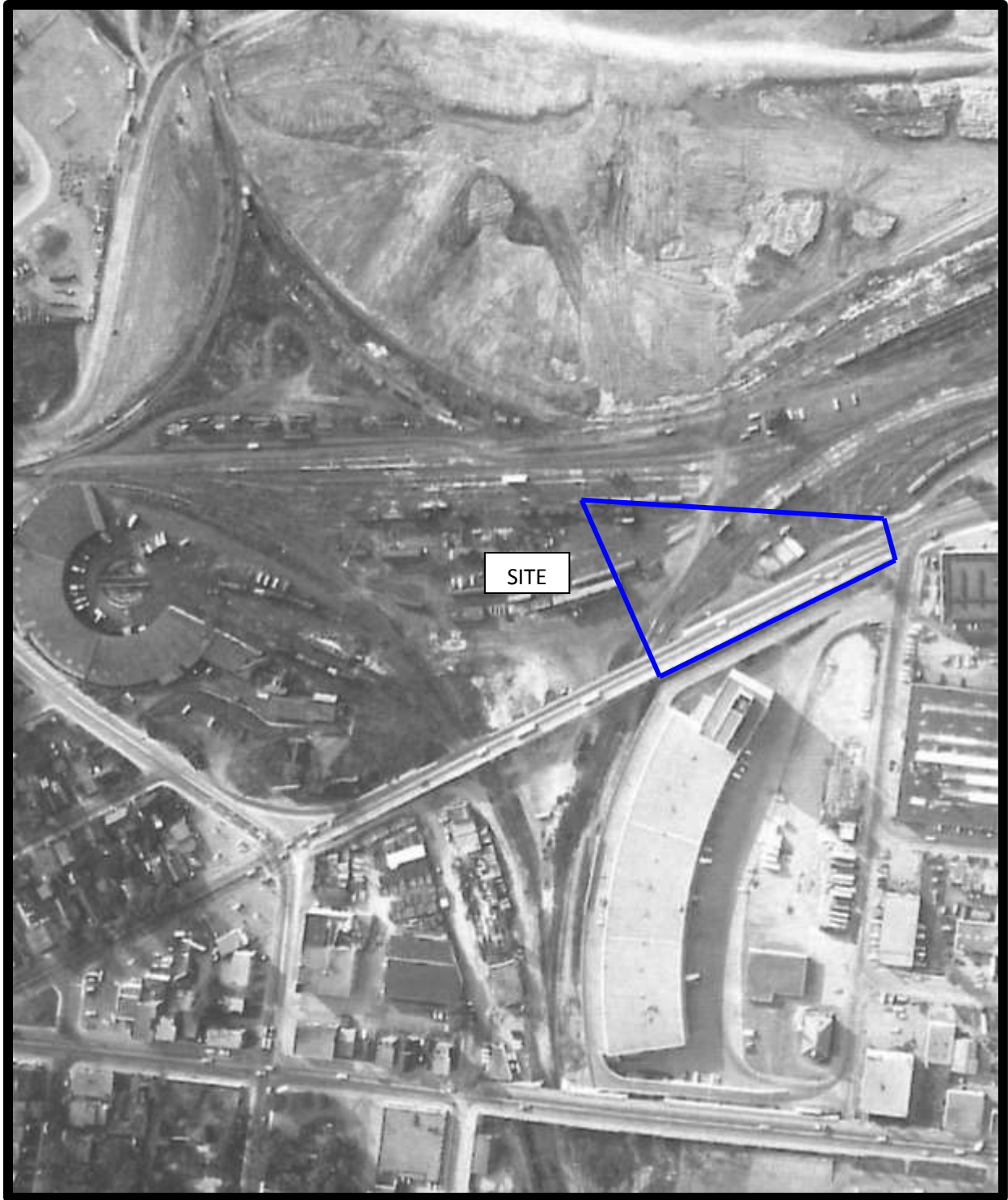
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1928



AERIAL PHOTOGRAPH
1946



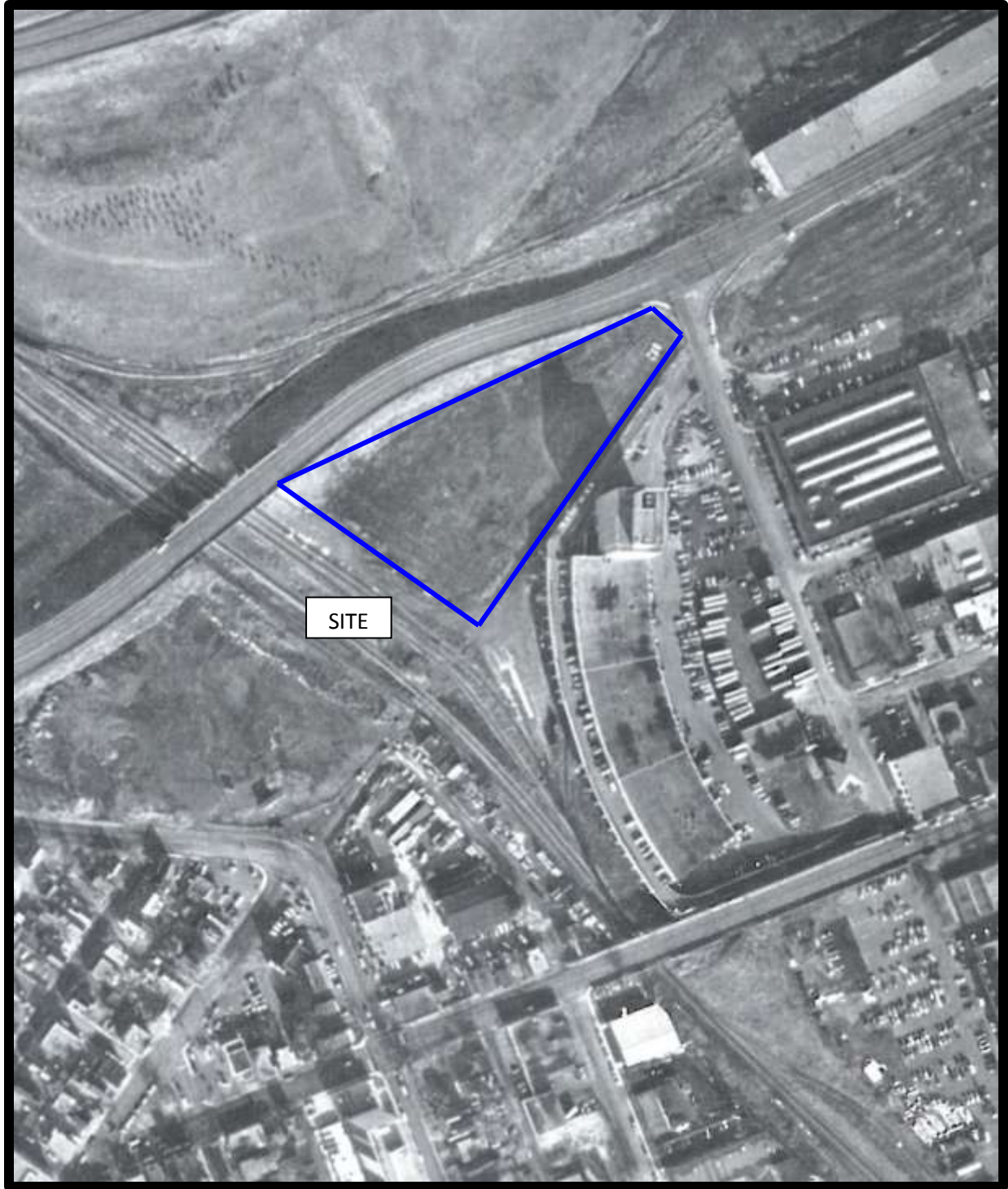
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1958



AERIAL PHOTOGRAPH
1966



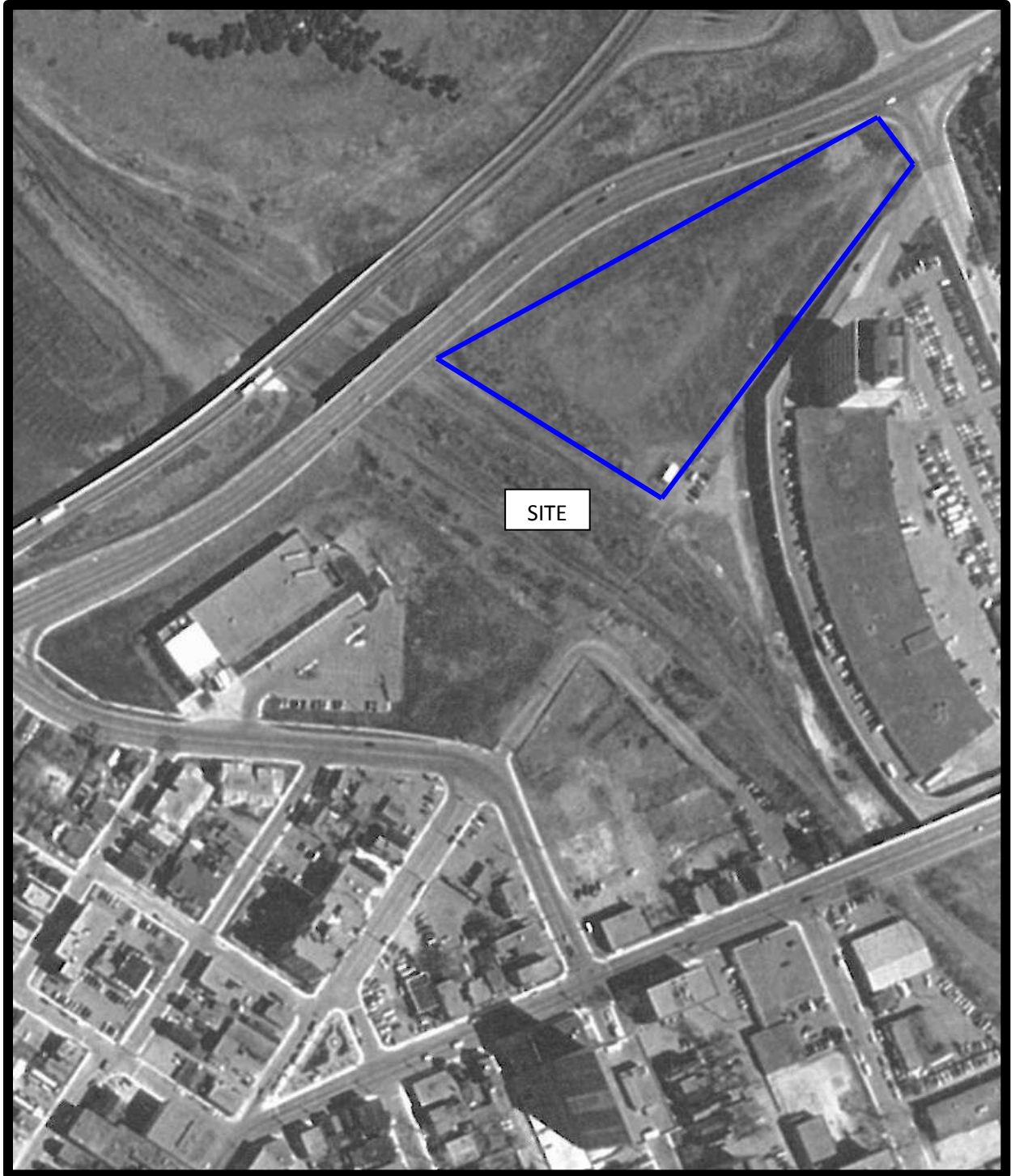
AERIAL PHOTOGRAPH
1971



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1980



AERIAL PHOTOGRAPH
1995

Site Photographs

PE3302

801 Albert Street, Ottawa, Ontario

May 23, 2014



Photograph 1: Facing west along the south boundary of the subject site.



Photograph 2: Facing northeast from the southwest corner of the subject site.

Site Photographs

PE3302

801 Albert Street, Ottawa, Ontario

May 23, 2014



Photograph 3: Facing the northwest corner of the subject site, showing City of Ottawa sewer manhole and sign.

APPENDIX 2

MOE FREEDOM OF INFORMATION REQUEST AND RESPONSE

CITY OF OTTAWA HLUI SEARCH RESULTS

TSSA CORRESPONDENCE

MOE WATER WELL RECORDS



Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Dan Arnott Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: darnott@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH <input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Your Project/Reference No. PE3302	Signature/Print /Name of Requester Dan Arnott			
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 801 Albert Street, Ottawa, ON				
Present Property Owner(s) and Date(s) of Ownership DCR-Phoenix Homes				
Previous Property Owner(s) and Date(s) of Ownership City of Ottawa, National Capital Commission, Canadian Pacific Railway				
Present/Previous Tenant(s), (if applicable)				
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.				
Environmental concerns (General correspondence, occurrence reports, abatement)			1986-present	
Orders			1986-present	
Spills			1986-present	
Investigations/prosecutions ➤ Owner AND tenant information must be provided			1986-present	
Waste Generator number/classes			1986-present	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
	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-present		
waste water - industrial discharges		1986-present		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-present		
waste systems - PCB destruction, mobile waste processing 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.

Ministry of
the Environment

Freedom of Information and
Protection of Privacy Office

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

Ministère de
l'Environnement

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

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



June 4, 2014

Dan Arnott
Paterson Group Inc
154 Colonnade Rd S
Ottawa, ON K2E 7J5

Dear Dan Arnott:

RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2014-02950, Your Reference #: PE3302

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 801 Albert Street, Ottawa.

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

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

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 5 pages @ \$0.20/page	\$1.00
• Delivery	\$3.00
• Total	\$34.00
• Deposit Received	- \$30.00
• BALANCE WAIVED (NOT REQUIRED)	\$4.00

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

If you have any questions regarding this matter, please contact Liz Mico at (416) 212-0559 or liz.mico@ontario.ca.

Yours truly,

Heidi Ritscher
FOI Manager

Attachments

Registration/Notification Number

ON3550322

Legal Company Name

Primary Name: National Capital Commission NA

Company Operating Name

Primary Name: National Capital Commission NA

Mailing Address

Division Building: NA
Address Line 1: 202-40 Elgin Street
Town/City: Ottawa
County: (if inside Ontario) OTTAWA CARLTON (RM)
County: (if outside Ontario) NA
Country: Canada

Post Box Number: NA
Address Line 2: NA
Postal Code / Zip Code: K1P 1C7
Province / State (If inside Canada/US) ONTARIO
Province / State (If outside Canada / US) NA

Site Location

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

Division Building: NA
Address Line 1: 801 Albert Street
Address Line 2: NA
Town/City: Ottawa
County: (if inside Ontario) OTTAWA CARLTON (RM)
County: (if outside Ontario) NA
Country: Canada

Post Box Number: NA
Postal Code / Zip Code: K1P 1C7
Province / State (If inside Canada / US) ONTARIO
Province / State (If outside Canada / US) NA

000001

http://10.77.231.152/hwinadmin/generator/new_generator_registration2_search.jsp?iCompanyID=94376

05/27/2014

Company Name: National Capital Commission
Company Number: ON3550322 (Generator)

Active Waste Classes

Active Waste Class Listing

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

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off- Site	Status	UnRegister Waste Class
241 - L	View Details	N/A					Liquid	Off- Site	Active	



[Back](#)



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Technical inquiries to [Webmaster](#).
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INCIDENT REPORT

Reference Number:	5138-978K2L	File Storage Number:	SI OT OT AL 700
Module:	Incident Reporting	Module Type:	Legislation Non-Compliance
Cross Reference:	(doc link)	Task Link:	4324-978K4C 
Originating Document:		Created by:	Emily Diamond
Incident Report Reference Number:		5138-978K2L 	
Date Created:	2013/04/29	Date Completed:	
Bring Forward Date:		Bring Forward Reason:	
Status:	Recommended		
Program	Waste - Hazardous & Liquid industrial	Activity:	General (No related specific activity)

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:

First Name	Last Name
Emily	Diamond

Contact Mailing Address

Municipality:

Ottawa

Reported By:

MOE Information

Date & Time Reported to MOE: 2013/04/29 10:30

Office Receiving Incident Report: Eastern Region

Incident Info Received By: Emily Diamond

MOE Response: No Field Response

Site Region: Eastern

Date & Time of MOE Arrival at Scene:

Master Incident Report Number:

SAC Action Class:

Non-Standard Procedure: No

ERP Call-out Initiated:

Client(s)

Information

Show Map

National Capital Commission<UNOFFICIAL>, Business/Facility Name:

Mailing Address: , , , Ontario, Canada

Physical Address: Lot: , Part: , , , Ontario, Canada

Telephone: , FAX:

Client Type: , NAICS:

Site(s)

Information

Show Map

National Capital Commission<UNOFFICIAL>

Address: Lot: , Part: , 801 Albert Street, Ottawa, City,

District Office: Ottawa

GeoReference: Map Datum: , Accuracy Estimate: , UTM Easting: , UTM Location Description: ,

LIO GeoReference: Zone: , UTM Easting: , UTM Northing: , Latitude: , Longitude:

Incident Information

Incident Summary:

HWIN Expired Generator
cannot be longer than 60 characters

Incident Description:

ON3550322 - Generator number for National Capital Commission

Called on August 8, spoke with Andrew who informed me that site is no longer producing waste. Sent email including submitting for site closure info. Updated email address.

Company has been contacted.

File closed.

Links & Comments:

Attachments Names:

Date & Time of Incident

Incident Date Confirmation? Actual
2013/04/29

Source Type:

Sector Type:

Nearest Watercourse:

Watershed Category
Code:

Environmental Impact:

Nature of Impact:

Incident Event:

Incident Reason:

Damaged Party:

No

Contaminants Table

Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]
------------------	------	-----	-------	----------	---------	--------

Controller of Material:

Estimated Clean Up Cost:

% Clean Up: %

Owner of Material:

Who Cleaned Up:

MOE/Other Agencies
Involved:

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?

☐ Yes

☒ No

☐ To be determined

Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated)

Date

AttainList

Offence(s)

Suspected Violation(s)/Offence(s):

Act - Regulation - Section,
Description
{General Offence}

Provincial Officer:

Name:

Emily Diamond

Badge No:

Work Unit:

District/Area Office:

Eastern Region

Date:

2014/01/03

Signature:

District/Area Supervisor:

Name:

Work Unit:

District/Area Office:

Date:

Signature:



File Number: C10-01-14-0158

June 23, 2014

Dan Arnott
Paterson Group Inc.
154 Colonnade Road South
Ottawa, ON

Sent via email [darnott@patersongroup]

Dear Mr. Arnott,

Re: Information Request
801 Albert Street, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

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

- The Disposals and Environmental Remediation Unit notes that the subject property is within 500m of former landfills Ur-41 – Nepean Bay Dump (Ottawa River Parkway, east of CPR), Ur-41 – Bayswater Avenue and Wellington Street and an unnamed former landfill near Broad Street at LeBreton Flats. The City of Ottawa has no information on the current environmental conditions of any of these former landfills as all three sites are under private ownership.

The subject property is also within 500m of former landfills Ur-05 – Bayview Dump (City-owned) and Ur-38 – Laroche Park (owned by the City and others). A data gap analysis was carried out on Ur-05 and the city-owned portion of Ur-38 to identify any potential human health risks associated with the site's current land use, however none were identified.

- The Sewer Use Program notes that information was found on the Subject Property. Information Request searches include recent environmental reports; past control orders or work orders; violations of environmental statutes, regulations or by-laws; Certificates; Approvals; Permits; and any other environmental information.

Shaping our future together
Ensemble, formons notre avenir

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

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6005
www.ottawa.ca

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

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
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Télé.: (613) 560-6005
www.ottawa.ca

Please note that we cannot comment on properties adjacent to or in proximity to the subject properties without consent from the owners of those properties. As well, the Sewer Use Program cannot guarantee or make comments on the environmental condition of the properties you described, as the Sewer Use Program does not have the necessary data to make such an evaluation, you may wish to contact the Ministry of Environment.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

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

- There are 25 activities associated with properties located within 50m of the Subject Property: Activity Number 12086, 14515, 9094, 11030, 1119, 11412, 11491, 1251, 12640, 1407, 15011, 1732, 2093, 215, 2600, 4105, 4453, 4469, 5422, 6653, 6764, 6769, 7947, 886 and 9782.

Please note that Activity Numbers 9094, 15011, 2600, 4105 and 5422 have a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property or on certain properties within 50m of the Subject Property. All database entries with a PIN Certainty of "2" require independent verification as to their precise location.

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

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422


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

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

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

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

Sincerely,

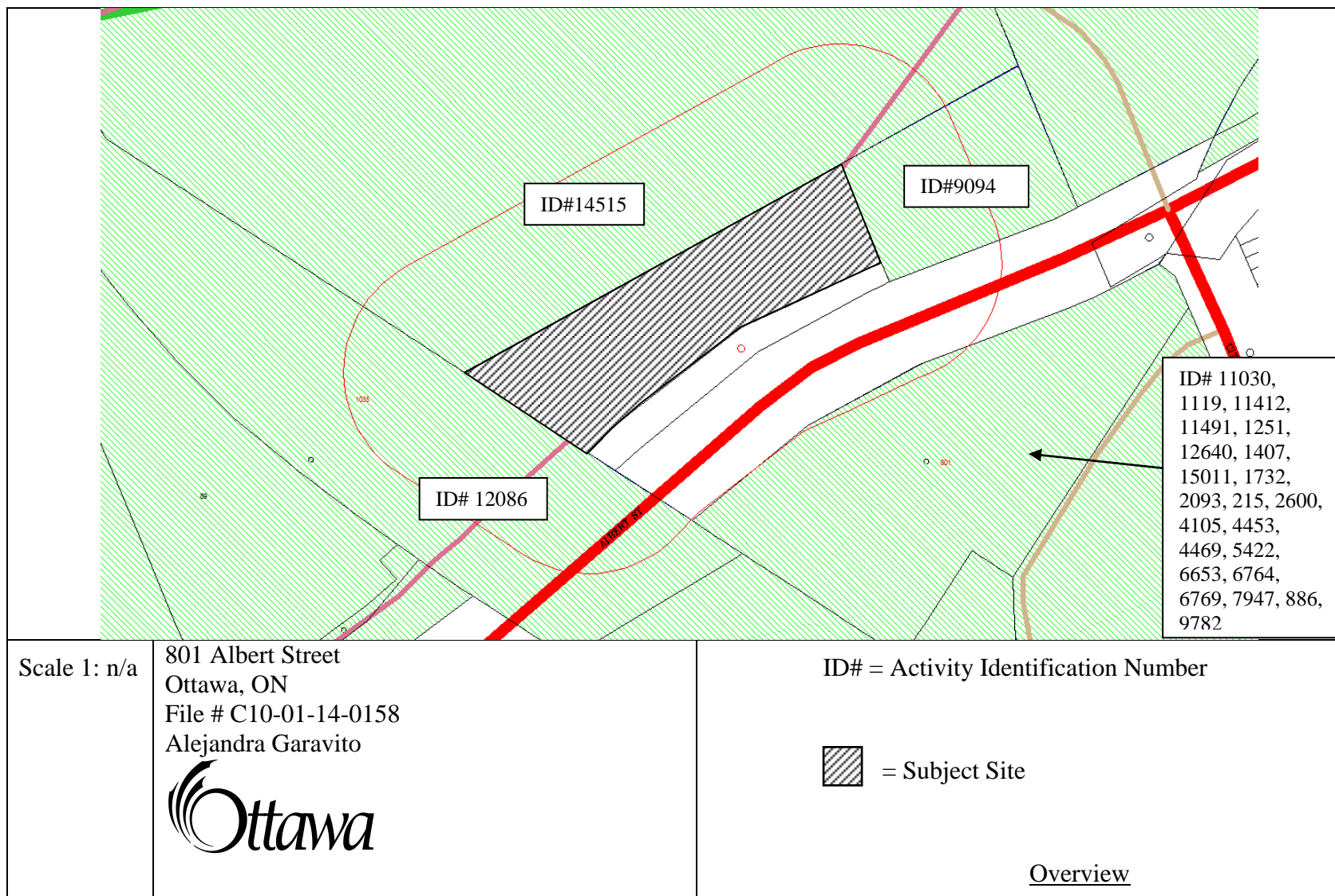


David Wise, MUP, MCIP, RPP
Program Manager
Development Review (Suburban Services) - West
Planning and Growth Management Department

DW/AG

Attach: 29

cc: File no. C10-01-14-0158





CITY OF OTTAWA

HLUI ID: __679GJO

AREA (Square Metres): 4948.315

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:11

Study Year
1998

PIN
040970061

Multi-NAIC
N

Multiple Activities
N

Activity ID: 9094 Multiple PINS: N
PIN Certainty: 2 Previous Activity ID(s) : 7085
Related PINS: 040970061
Name: MUTUAL OIL PRODUCTION COMPANY
Address: WELLINGTON STREET, OTTAWA
Facility Type: Other Petroleum and Coal Products Industries
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: RBE-1991
HL References 2:
HL References 3:

NAICS SIC
324121 369

Company Name

Mutual Oil Production Company

Year of Operation

c. 1888-1900



CITY OF OTTAWA
HLUI ID: __679G6E
AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122
Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11030 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: PEAK SPORTSWEAR

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Sporting Goods and Toy Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

339920 0

Company Name

PEAK SPORTSWEAR

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 1119 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: ALLEGRA PRINT & IMAGING

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Men's and Boys' Clothing Industries

Comments 1: BAY 142

Comments 2:

Generator Number: ON2422403

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS SIC

323113 0

Company Name

ALLEGRA PRINT & IMAGING

Year of Operation

c. 2003



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11412 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: PRIMOSE CARTAGE LIMITED

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Highway and Heavy Construction

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

238910 0

238990 0

Company Name

PRIMOSE CARTAGE LIMITED

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11491 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) :
Related PINS: 040980005
Name: PIP ANIMATION SERVICES INC.
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Motion Picture Laboratories and Video Production Facilities
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1:
HL References 2:
HL References 3: 2001 Employment Survey

NAICS SIC
512110 0

Company Name

PIP ANIMATION SERVICES INC.

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 1251 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) :
Related PINS: 040980005
Name: BALDWIN AUDIO VISUAL INC.
Address: 880 WELLINGTON STREET,
Facility Type: Photographic Equipment and Musical Instruments and Supplies, Wholesale
Comments 1: #142
Comments 2:
Generator Number:
Storage Tanks:
HL References 1:
HL References 2:
HL References 3: 2005 Select Phone

NAICS SIC
414130 0

Company Name

BALDWIN AUDIO VISUAL INC.

Year of Operation

c. 2005



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 12640 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: SENATE OF CANADA

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: General Administrative Services

Comments 1: BAY 108, TRADES SERVICES

Comments 2:

Generator Number: ON1873702

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS SIC

911910 0

Company Name

Year of Operation

SENATE OF CANADA

c. 2003

SENATE OF CANADA

c. 2000

**CITY OF OTTAWA**

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 1407 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) :
Related PINS: 040980005
Name: VISUAL PLANNING CORP
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Electrical and Electronic Machinery, Equipment and Supplies, Wholesale
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1:
HL References 2:
HL References 3: 2001 Employment Survey

NAICS	SIC
443120	0
416110	0

Company Name	Year of Operation
BASCON CONTROL TECHNOLOGIES	c. 2005
PSI MECHANICAL SVC INC.	c. 2005
TORBRAM ELECTRIC SUPPLY	c. 2005
VISUAL PLANNING CORP	c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 15011 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 4210
Related PINS: 040980005
Name: PSI Mechanical Services
Address: 880 WELLINGTON ST, OTTAWA
Facility Type: Mechanical Services
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: SC98
HL References 2:
HL References 3:

NAICS	SIC
0	391

Company Name

PSI Mechanical Services

Year of Operation

c. 1998



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 1732 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s): 4208
Related PINS: 040980005
Name: BLM TRADE PRINTERS LIMITED
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Platemaking, Typesetting and Bindery Industry
Comments 1: BAY 226
Comments 2:
Generator Number: ON2039600
Storage Tanks:
HL References 1: SC98
HL References 2:
HL References 3: 2000 PID

NAICS	SIC
323116	281
333511	0
323115	281
323119	281
323120	0
812921	0
323114	281

Company Name

Blm Trade Printers Ltd.
BLM TRADE PRINTERS LIMITED
BLM TRADE PRINTERS LIMITED

Year of Operation

c. 1998
c. 2000
c. 2005



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 2093 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: BROWN'S CLEANERS

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Laundries and Cleaners

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

812320 0

Company Name

BROWN'S CLEANERS

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 215 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) : 4976
Related PINS: 040980005
Name: APPLIED GRAPHICS VISUAL PLANNING
Address: 880 WELLINGTON STREET,
Facility Type: Photographic Equipment and Musical Instruments and Supplies, Wholesale
Comments 1: #1
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: SC98
HL References 2:
HL References 3: 2005 Select Phone

NAICS	SIC
334610	399
322230	279
334610	0
414130	0
325999	279

Company Name	Year of Operation
Applied Graphics Visual Planning	c. 1998
ARTEXT ELECTRONIC PUBLISHING	c. 2005
APPLIED GRAPHICS VISUAL PLANNING	c. 2005



CITY OF OTTAWA

HLUI ID: ___679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 2600 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 4394
Related PINS: 040980003
Name: CANADIAN PACIFIC RAILWAY YARD
Address: WELLINGTON STREET, OTTAWA
Facility Type: Machine Shop Industry
Comments 1: - south side of Wellington M. 1920 - lists as # 912 - 914 FIP1901 - coal bins - cattle pens Round house,
coal pockets and sand dryer, coal shed and machine shop
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1900, M.1910, M.1912, M.1920, M.1922, M.1930, M.1940, M.1948, M.1950, M.1956; FIP1901-112-813,vol2;
FIP1912-112-813,vol2; FIP1912-111-810,vol2;
HL References 2: FIP1922-111-810,Vol2; FIP1948-320-813; FIP1948-317-810; FIP1956-317-810; FIP1956-320-813
HL References 3:

NAICS	SIC
419120	511
336350	308
483116	453
333619	308
332710	308
412110	511
336310	308
482113	453
454310	511
482114	453
482112	453
488210	453

Company Name

Canadian Pacific Railway Yard

Year of Operation

c. 1901-1956



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 4105 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 5847, 5618
Related PINS: 040980005

Name: JULES PATRY LIMITED
Address: WELLINGTON STREET, OTTAWA
Facility Type: Other Chemical Products Industries
Comments 1:
Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950; SC98

HL References 2:

HL References 3:

NAICS	SIC
325910	379
325920	379
325520	379

Company Name

D & E McEwan

Jules Patry Ltd.

Year of Operation

c. 1920

c. 1998



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 4453 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: DIPLOMA PRODUCTIONS

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Other Textile Products Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

313320 0

Company Name

DIPLOMA PRODUCTIONS

Year of Operation

c. 2001

**CITY OF OTTAWA**

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 4469 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) : 4207
Related PINS: 040980005
Name: DISPLAY LAMINATING
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Other Textile Products Industries
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: SC98
HL References 2:
HL References 3: 2001 Employment Survey

NAICS	SIC
321217	259
321216	259
313320	0
337920	259
339950	0
339950	397
321114	259
322230	279
325999	279

Company Name**Year of Operation**

DISPLAY LAMINATING

c. 2001

Display Laminating

c. 1998

VISION FORM INC.

c. 2005



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 5422 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 4401
Related PINS: 040980005
Name: F.W. ARGUE LIMITED
Address: 128 CHAMPAGNE AVENUE, OTTAWA
Facility Type: Petroleum Products, Wholesale
Comments 1: FIP1912 - vacant lot - lumber shed, coal sheds (1 sm. 1 XL), open lumber yard
Comments 2:
Generator Number:
Storage Tanks: 2 UST - gasoline
HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1956, M.1960, M.1970, M.1980;
FIP1901-112-825,vol2; FIP1912-112-825,vol2; FIP1948-320-825; FIP1956-320-825
HL References 2:
HL References 3:

NAICS	SIC
444110	563
416310	563
454310	511
419120	511
493190	479
412110	511
324121	369
416340	563
444190	563
493130	479
416320	563
444120	563
493120	479

Company Name

F.W. Argue Ltd.

Spark's Estate North Yard - J.R. Booth

Year of Operation

c. 1930-1960

c. 1901-1912



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 6653 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: H A R ELEVATOR SERVICES INC.

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Other Trade Work

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

238299 0

238291 0

Company Name

Year of Operation

H A R ELEVATOR SERVICES INC.

c. 2001

H A R ELEVATOR SERVICES INC.

c. 2005



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 6764 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: HORNBLOWER BOOKS

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Combined Publishing and Printing Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

511130 0

Company Name

HORNBLOWER BOOKS

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 6768 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s) :
Related PINS: 040980005
Name: HORTICULTURAL PLANT MAINTENANCE DIVISION OF OCAP
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Recreational Vehicle Dealers (where servicing is present)
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1:
HL References 2:
HL References 3: 2001 Employment Survey

NAICS SIC
811490 0

Company Name

HORTICULTURAL PLANT MAINTENANCE DIVISION OF OCAP

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 7947 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: LALONDE APPLIANCE CARE INC.

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Hardware, Tool and Cutlery Industries

Comments 1: UNIT 118

Comments 2:

Generator Number: ON1976900

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS SIC

332510 0

Company Name

LALONDE APPLIANCE CARE INC.

Year of Operation

c. 2000



CITY OF OTTAWA

HLUI ID: 679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998PIN
040980005Multi-NAIC
YMultiple Activities
Y

Activity ID: 886 Multiple PINS: Y
PIN Certainty: 1 Previous Activity ID(s): 1910, 4209
Related PINS: 040980005
Name: TRAVERS 1910 LIMITED
Address: 880 WELLINGTON STREET, OTTAWA
Facility Type: Commercial Printing Industries
Comments 1: UNIT 224
Comments 2:
Generator Number: ON1746200
Storage Tanks:
HL References 1: M.1960, M.1970, M.1971, M.1980; S.1970/71; SC98; PID994
HL References 2:
HL References 3: 2000 PID

NAICS	SIC
511110	284
323116	281
323114	281
511120	284
323114	0
323115	0
512230	284
323120	282
511130	284
812921	282
323115	281
323119	281

Company Name**Year of Operation**

Aarkdale Design and Offset Printing Inc	c. 1998
Campbell Printing Co.	c. 1970
Travers 1910 Ltd.	c. 1994
MARQUARDT PRINTING	c. 2005
Fairburn Studios Ltd.	c. 1970-1971
Rapid Grip and Batten Ltd.	c. 1970
TRAVERS 1910 LIMITED	c. 2000
K.G. Campbell Corporation	c. 1994
Data Business Forms	c. 1998
PRINTING CENTER	c. 2005



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y



CITY OF OTTAWA

HLUI ID: __679G6E

AREA (Square Metres): 14434.733

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:17

Study Year
1998

PIN
040980005

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 9782 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 040980005

Name: NEW SUN TECHNOLOGIES LIMITED

Address: 880 WELLINGTON STREET, OTTAWA

Facility Type: Other Machinery and Equipment Industries

Comments 1: UNIT 138

Comments 2:

Generator Number: ON2519678

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS SIC

335990 0

Company Name

NEW SUN TECHNOLOGIES LIMITED

Year of Operation

c. 2003



CITY OF OTTAWA

HLUI ID: __679GFE

AREA (Square Metres): 36616.257

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:23

Study Year
1998

PIN
040970070

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 12086 Multiple PINS: N
PIN Certainty: 1 Previous Activity ID(s) : 7101
Related PINS: 040970070

Name: REGION OF OTTAWA-CARLETON
Address: BAYVIEW ROAD, OTTAWA
Facility Type: General Administrative Services
Comments 1: East half of works yard used as snow dump
Comments 2:

Generator Number:

Storage Tanks:

HL References 1: Mc Neely-Tunnock Consultants, 1994. Strategic Plan For Snow Disposal Sites Inside the Greenbelt, June 24 (File: 46-95-0017); RMO Environment & Transportation Dept. 1997., Snow Disposal Facilities Report ~ 1996-1997.

HL References 2:

HL References 3:

NAICS	SIC
221330	499
913910	835
562920	499
562990	499
221320	499
562210	499

Company Name

Region of Ottawa-Carleton

Year of Operation

1999



CITY OF OTTAWA

HLUI ID: __670HK8

AREA (Square Metres): 84046.834

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:28

Study Year
1998

PIN
040970059

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 14515 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) : 6190, 6060, 6064, 6082, 6077, 6084, 6094, 6095, 6098, 6099, 6102, 6103, 6105, 6108, 6109, 6110, 6111, 6112, 6115, 6117, 6121, 6122, 6124, 6125, 6127, 6129, 6130, 6190, 6191, 6192, 6193, 6198, 6200, 6202, 6203, 6238, 6240, 6243, 6245, 6280, 6282, 6284, 62

Related PINS: 041330051

Name: UNNAMED WASTE DISPOSAL SITE

Address: , OTTAWA

Facility Type: Other Utility Industries n.e.c.

Comments 1: UTM = 445870E, 5028130N, map 31G/5. Site #X1102 of closed sites in the MOE inventory (pg134).

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: 1991-WDSI/WMB/MOE; RBE 1992; MC Staff, 19/02/99; 1922DMD-TM-Ottawa-Sheet #14, 1948DND-ASE-NTS-31G/5, 1967-EMR-SMB-NTS-31G/5-7th ed., 1985-EMR-SMB-NTS-31G/5-11th ed., City of Gloucester-File #8-400-Box 130;

HL References 2: City of Gloucester File # 6-79A: Subject-Health/Dumping -Box 75 -28/12/64; 1938-39-DND-ASE-NTS-31B/13W-2nd ed., 1964-DND-MCE-NTS-31B/13-3rd ed., 1976-EMR-SMB-NTS-31B/13-4th ed., 1979-EMR-SMB-NTS-31B/13-5th ed.

HL References 3:

NAICS	SIC
562210	499
221330	499
221320	499
562920	499
562990	499



CITY OF OTTAWA

HLUI ID: ___670HK8

AREA (Square Metres): 84046.834

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:28

Study Year
1998

PIN
040970059

Multi-NAIC
Y

Multiple Activities
N

Company Name	Year of Operation
Unnamed Waste Disposal Site	c. <1991
Unnamed Waste Disposal Site	c. 1953
Unnamed Waste Disposal Site	c. 1946
Unnamed Waste Disposal Site	c. 1924
Unnamed Waste Disposal Site	c. 1958
Unnamed Waste Disposal Site	c. 1979
Unnamed Waste Disposal Site	c. 1965
Unnamed Waste Disposal Site	c. 1974
Unnamed Waste Disposal Site	c. 1920-1931
Unnamed Waste Disposal Site	c. 1973
Unnamed Waste Disposal Site	c. 1927
Unnamed Waste Disposal Site	c. 1966-1991
Unnamed Waste Disposal Site	c. 1947
Unnamed Waste Disposal Site	c. 1976
Unnamed Waste Disposal Site	c. 1940
Unnamed Waste Disposal Site	c. 1962
Unnamed Waste Disposal Site	c. 1926
Unnamed Waste Disposal Site	c. 1944
Unnamed Waste Disposal Site	c. 1972
Unnamed Waste Disposal Site	c. 1935
Unnamed Waste Disposal Site	c. 1921-1945
Unnamed Waste Disposal Site	c. 1977
Unnamed Waste Disposal Site	c. 1947
Unnamed Waste Disposal Site	c. 1950
Unnamed Waste Disposal Site	c. 1981
Unnamed Waste Disposal Site	c. 1971
Unnamed Waste Disposal Site	c. 1963
Unnamed Waste Disposal Site	c. <1990
Unnamed Waste Disposal Site	c. 1964
Unnamed Waste Disposal Site	c. 1920
Unnamed Waste Disposal Site	c. 1938
Unnamed Waste Disposal Site	c. 1929



CITY OF OTTAWA

HLUI ID: __670HK8

AREA (Square Metres): 84046.834

Report: RPTC_OT_DEV0122

Run On: 05 Jun 2014 at: 10:23:28

Study Year
1998

PIN
040970059

Multi-NAIC
Y

Multiple Activities
N

Unnamed Waste Disposal Site

c. 1966

Daniel Arnott

From: squibell@tssa.org on behalf of Public Information Services
[publicinformationsservices@tssa.org]
Sent: May-22-14 8:50 AM
To: Daniel Arnott
Subject: Re: Environmental assessment information search request

Hi Dan,

Thank you for your inquiry.

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

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

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

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

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

www.tssa.org

Toll-Free: 1-877-682-8772

On Wed, May 21, 2014 at 5:11 PM, Daniel Arnott <DArnott@patersongroup.ca> wrote:

Good afternoon:

Could you please complete a search of your records for underground/aboveground storage tanks, historical spills, or other incidents/infractions at the following five (5) properties in the city of Ottawa, Ontario:

801 Albert Street

250 City Centre Avenue

1035 Somerset Street West

141 Bayview Avenue

255 City Centre Avenue

Thank you very much for your time.

Best,

Dan

Daniel J. Arnott, P.Eng.

Environmental Engineer

patersongroup

solution oriented engineering

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Office: [613.226.7381](tel:613.226.7381) Ext. 207

Fax: [613.226.6344](tel:613.226.6344)

Email: darnott@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.

Well ID Number: 1508959

Well Audit Number:

Well Tag Number:

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443910.70			
Northing: 5028622.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth
				From To
	FILL			0 ft 10 ft
	GRVL	BLDR		10 ft 25 ft
GREY	LMSN	SHLE		25 ft 80 ft

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume		
From To	(Material and Type)	Placed	Draw Down	Recovery
			Time Water	Time Water
			(min) level	(min) level
Method of Construction	Well Use	After test of well yield, water		
Cable Tool	Industrial	was	SWL 10 ft	

	CLOUDY		
If pumping discontinued, give	1	1	
reason	2	2	

Status of Well

Water Supply

Construction Record - Casing

Inside	Open Hole OR material	Depth		
Diameter		From To	Pumping Rate	
6 inch	STEEL	28 ft	30 GPM	5
6 inch	OPEN HOLE	80 ft	Duration of Pumping	10
			2 h:0 m	15

Construction Record - Screen

Outside	Material	Depth		
Diameter		From To	Final water level	
			80 ft	20
			If flowing give rate	25

Well Contractor and Well Technician Information

Well Contractor's Licence Number	1802	Recommended pump depth	30	30
		75 ft	40	40
		Recommended pump rate	45	45
		30 GPM	50	50
		Well Production	60	60
		PUMP		

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

30 ft Sulphur

From To

Audit Number:

Date Well Completed: June 24, 1963

Date Well Record Received by MOE: August 27,
1963

Well ID Number: 1514863

Well Audit Number:

Well Tag Number:

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443982.70			
Northing: 5028597.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth
				From To
	SAND	GRVL		0 ft 23 ft
	LMSN			23 ft 200 ft

Annular Space/Abandonment Sealing Record

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

Results of Well Yield Testing

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

Method of Construction Well Use

Rotary (Air)	Industrial
--------------	------------

After test of well yield, water was

CLEAR

SWL 15 ft

If pumping discontinued, give reason

Status of Well

Water Supply

Construction Record - Casing

Inside	Open Hole OR material	Depth
Diameter		From To
6 inch	STEEL	23 ft

Pump intake set at

Pumping Rate

12 GPM

Duration of Pumping

1 h:0 m

Final water level

180 ft

If flowing give rate

Construction Record - Screen

Outside	Material	Depth
Diameter		From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number	1836
----------------------------------	------

Recommended pump depth

190 ft

Recommended pump rate

10 GPM

Well Production

PUMP

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

190 ft

Sulphur

From To

Audit Number:

Date Well Completed: July 30, 1975

Date Well Record Received by MOE: August 22, 1975

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

First Name

Last Name

Mailing Address (Street Number/Name, RR, Lot, Concession)

County/District/Municipality

Township/City/Town/Village

Province

Postal Code

Telephone Number (include area code)

Address of Well Location (County/District/Municipality)

Township

Lot

Concession

RR#/Street Number/Name

City/Town/Village

Site/Compartment/Block/Tract etc.

GPS Reading

NAD

Zone

Easting

Nothing

Unit Make/Model

Mode of Operation:

☐ Undifferentiated
 ☒ Averaged
 ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)					
General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
DK. Brown	Sandy loess!	Vegetation + roots	dry, med to fine loose	0	0.05
DK. Grey	Sand fill	Some gravel	Moist	0.05	1.5
DK. Grey	Clayey Sand fill			1.5	2.2
DK. Grey	Silty Sand fill			2.2	3.0
Black	Gravel fill			3.0	3.8
DK grey	Clay fill			3.8	6.00
Grey	Sand		Med to coarse.		
Monitoring well installations as per Min Reg 903					
Typical.					

Hole Diameter

Depth

Metres

Diameter

From

To

Centimetres

Water Record

Water found at

Metres

Kind of Water

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

Construction Record

Inside diam

Material

Wall thickness

Depth

Metres

centimetres

centimetres

From

To

Test of Well Yield

Pumping test method

Draw Down

Recovery

Time min

Water Level Metres

Time min

Water Level Metres

Plugging and Sealing Record

Depth set at - Metres

Material and type (bentonite slurry, neat cement slurry) etc.

Volume Placed (cubic metres)

From

To

Method of Construction

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

Water Use

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

Final Status of Well

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

Well Contractor/Technician Information

Name of Well Contractor

Well Contractor's Licence No.

Business Address (street name, number, city etc.)

Name of Well Technician (last name, first name)

Well Technician's Licence No.

Signature of Technician/Contractor

Date Submitted

Location of Well

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

Please see attached site plan

Audit No.

Date Well Completed

Was the well owner's information package delivered?

Date Delivered

Data Source

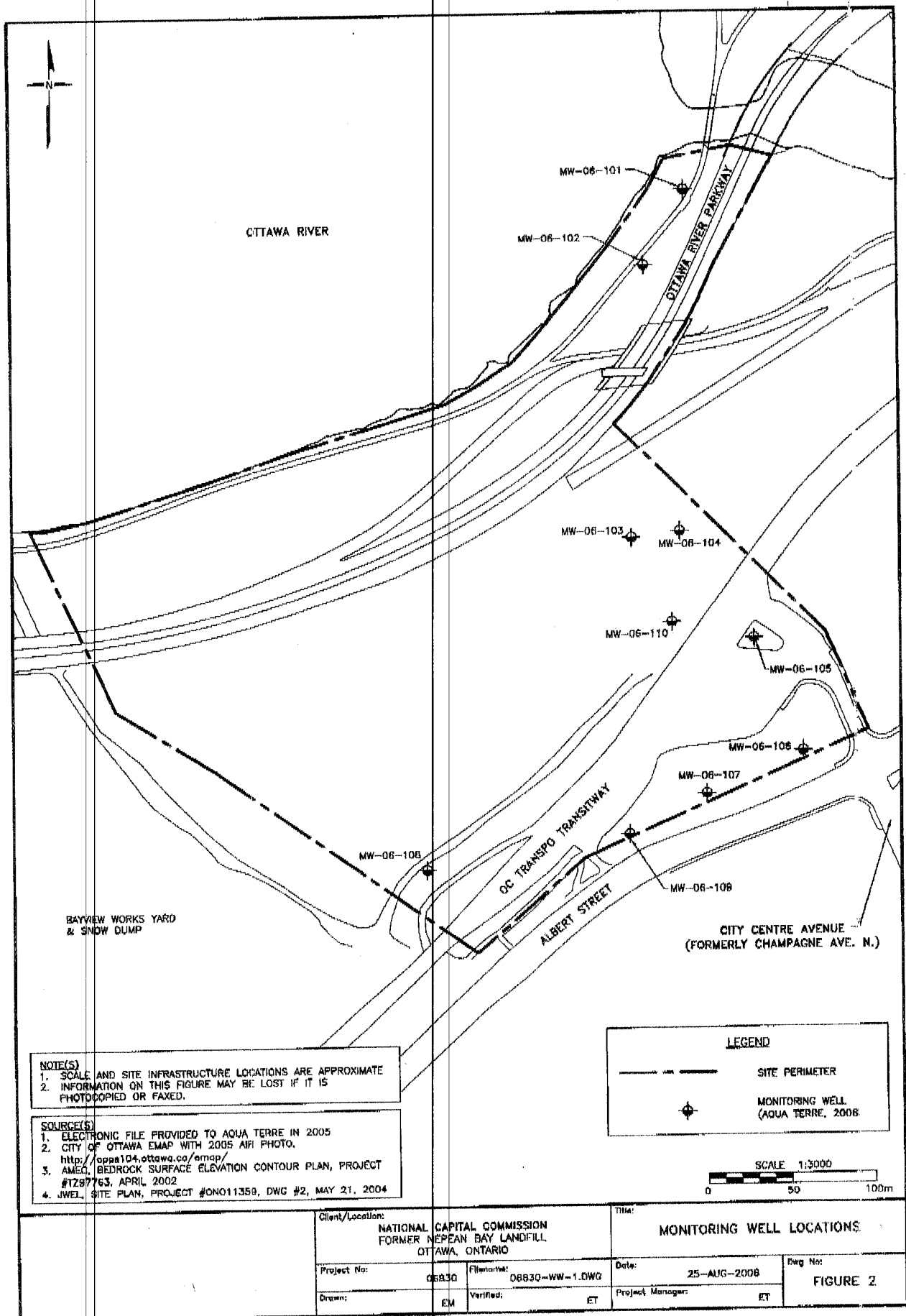
Date Received

Remarks

Contractor

Date of Inspection

Well Record Number



1844

Z50486

NOT 17 30'

Well ID Number: 1536786

Well Audit Number: Z50505

Well Tag Number: A045185

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTER AVENUE	OTTAWA CITY	008	73
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	OTTAWA	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number Other</i>		
NAD83 — Zone 18			
Easting: 443849.00			
Northing: 5028645.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
GREY	GRVL	FILL		0 m	.5 m
BRWN	SAND	GRVL	SILT	.5 m	3 m
GREY	SAND	GRVL		3 m	4.9 m
GREN	SILT	SNDY	GRVL	4.9 m	6 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>Placed</i>

.1 m .8 m BENTONITE

Method of Construction Well Use

Other Method

<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
	<i>Time Water</i>	<i>Time Water</i>
	<i>(min) level</i>	<i>(min) level</i>
<i>If pumping discontinued, give reason</i>	SWL	
	1	1
<i>Pump intake set at</i>	2	2
<i>Pumping Rate</i>	3	3
<i>Duration of Pumping</i>	4	4
<i>Final water level</i>	5	5
	10	10
<i>If flowing give rate</i>	15	15
	20	20
<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30
	40	40
<i>Well Production</i>	45	45

Status of Well

Observation Wells

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>
51 cm	PLASTIC	0 m 1.5 m

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>
58 cm	PLASTIC	1.5 m 6 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number

1844

60

60

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

From To

0 m 6 m 20 cm

Audit Number: Z50505

Date Well Completed: September 20, 2006

Date Well Record Received by MOE: November
07, 2006

Well ID Number: 7108782

Well Audit Number: Z84229

Well Tag Number:

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

Address of Well Location	Township	Lot	Concession
PRESTON ST.-SPRUCE ST.- LAUREL ST. OTTAWA CITY			
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number	Other	
NAD83 — Zone 18			
Easting: 444101.00			
Northing: 5028624.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
				0 m	9.6 m
				9.6 m	6 m
				6 m	6.4 m
				6.4 m	10 m
				10 m	10 m
				10 m	7.5 m

Annular Space/Abandonment Sealing Record**Results of Well Yield Testing**

Depth	Type of Sealant Used		Volume
From	To	(Material and Type)	Placed
0 m	6 m	BENTONITE GROUT	
0 m	6.4 m	BENTONITE GROUT	
0 m	7.5 m	BENTONITE GROUT	
0 m	9.6 m	BENTONITE GROUT	
0 m	10 m	BENTONITE GROUT	
0 m	10 m	BENTONITE GROUT	

After test of well yield, water was	Draw Down	Recovery
	Time Water (min) level	Time Water (min) level
If pumping discontinued, give reason	SWL	

Method of Construction Well Use

Not Used

Pump intake set at	1	1
Pumping Rate	2	2
Duration of Pumping	3	3
Final water level	4	4
If flowing give rate	5	5
Recommended pump depth	10	10
	15	15
	20	20
	25	25

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole OR material	Depth	To
		From	

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>		
<i>Diameter</i>		<i>From</i>	<i>To</i>	
				45
				50
				60

Well Contractor and Well Technician Information

Well Contractor's Licence Number 4875

Disinfected?

Water Details

Water Found at Depth Kind

Hole Diameter

Depth *Diameter*
From *To*

Audit Number: Z84229

Date Well Completed: July 02, 2008

Date Well Record Received by MOE: July 29, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7116509\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443818.00			
Northing: 5028643.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.8 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 13, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7116509\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number Other</i>		
NAD83 — Zone 18			
Easting: 443841.00			
Northing: 5028624.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 3 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 12, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7116509\)](#)**Well Location**

Address of Well Location	Township	Lot	Concession
255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443844.00			
Northing: 5028632.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
BRWN	FILL	STNS	GRVL	0 m	1.2 m
BRWN	SAND			1.2 m	4.2 m
BRWN	TILL	CLAY	SNDY	4.2 m	4.9 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth		Type of Sealant Used	Volume
From	To	(Material and Type)	Placed
.5 m	1 m	BENTONITE	

Method of Construction Well Use

Direct Push Monitoring

Status of Well

Test Hole

Construction Record - Casing

Inside Diameter	Open Hole OR material	Depth
		From To

Construction Record - Screen

Outside Diameter	Material	Depth
		From To

5.8 cm PLASTIC

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level

If pumping discontinued, give reason

SWL 2.9 m

1

1

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

5

5

Final water level

10

10

Well Contractor and Well Technician Information

Well Contractor's Licence Number 1844

	40	40
Recommended pump rate	45	45
Well Production	50	50
	60	60
Disinfected?		

N

Water Details

Water Found at Depth Kind

Hole Diameter

Depth	Diameter
From	To

0 m4.9 m10 cm

Audit Number: M02917

Date Well Completed: November 12, 2008

Date Well Record Received by MOE: December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7116509\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443851.00			
Northing: 5028630.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.4 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 13, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443824.00			
Northing: 5028637.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.7 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 13, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443836.00			
Northing: 5028648.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.9 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.9 m 10 cm

Audit Number: M02917

Date Well Completed: November 12, 2008

Date Well Record Received by MOE: December
15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443835.00			
Northing: 5028642.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.9 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

From To

4.9 m 10 cm

Audit Number: M02917

Date Well Completed: November 12, 2008

Date Well Record Received by MOE: December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443860.00			
Northing: 5028636.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.5 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 12, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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255 CITY CENTRE AVENUE	OTTAWA CITY	039	01
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443859.00			
Northing: 5028639.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.5 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 12, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443831.00			
Northing: 5028629.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL 2.6 m

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	PLASTIC	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.9 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Water Found at Depth Kind

Hole Diameter

Depth	Diameter
From	To

4.9 m 10 cm

Audit Number: M02917**Date Well Completed:** November 13, 2008**Date Well Record Received by MOE:** December 15, 2008

Well ID Number: 7116509

Well Audit Number: M02917

Well Tag Number: A074575

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<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443848.00			
Northing: 5028631.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
DIRECT PUSH			<i>Time Water (min) level</i>	<i>Time Water (min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL 3 m	
			1	1

Construction Record - Casing

<i>Inside Diameter</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.5 m		
			<i>Duration of Pumping</i>	
			4	4
			5	5

Construction Record - Screen

<i>Outside Diameter</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
		<i>From To</i>	<i>If flowing give rate</i>	
		1.5 m 4.9 m		
			10	10
			15	15
			20	20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

From To

4.9 m 10 cm

Audit Number: M02917

Date Well Completed: November 12, 2008

Date Well Record Received by MOE: December 15, 2008



A 074574

BH#10

Regulation 903 Ontario Water Resources Act

Page 1 of 2

First Name Freedman Holdings		Last Name		E-mail Address	
Mailing Address (Street Number/Name, RR) 1 Nicholas Street Suite 1516		Municipality Ottawa		Province ON	Postal Code K1N7B7
				Telephone No. (inc. area code) 37598383	

Address of Well Location (Street Number/Name, RR) 250, 270, 290 City Centre Ave		Township	Lot	Concession
County/District/Municipality		City/Town/Village	Province	Postal Code

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged
NAD 83	18	443756	5028682	Garmin	Map76A	<input type="checkbox"/> Differentiated, specify

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
Grey	Asphaltic concrete	crushed stone		0	0.2
Brown	Fill sand	+ gravel		0.2	1.67
DK Brown	Peat	organic matter		1.67	2.29
Grey/Brown	Silty clay			2.29	3.20
Grey	glacial till	silty sand*gravel		3.20	5.18

Depth (Metres)		Diameter (Centimetres)
From	To	
0	5.18	20

<input type="checkbox"/> Public	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used	<input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input checked="" type="checkbox"/> Monitoring	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Cooling & Air Conditioning	

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Air Percussion	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Boring
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Other, specify
<input type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Driving	HSA

<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Other, <i>specify</i>
<input type="checkbox"/> Alteration (Construction)	<input type="checkbox"/> Abandoned, other, <i>specify</i>

Open Hole	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2.5 Metres
-----------	---	------------

<input type="checkbox"/> Galvanized	<input type="checkbox"/> Steel	<input type="checkbox"/> Fibreglass	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Plastic
Outside Diameter (Centimetres)		Slot No.		
5.8		10		

Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Depth Set at (Metres)		Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
From	To		
1.3	1.8	Bentonite	22 Kgs

1.3	1.8	Bentonite	22 Kgs
-----	-----	-----------	--------

Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, provide reason:	Date Master Well Completed (yyy/mm/dd)
Monitoring wells	2009/01/19

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

Total Wells in Cluster 11	Please indicate Number of Cluster Well Information Log Sheets Submitted 1
Total Wells on this Property Unknown	

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

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

Consent to release additional information concerning the cluster to the Director upon request	
Signature of Technician/Contractor	[Date (www/mm/yy)]

Business Name of Well Contractor George Downing Estate Drilling	Well Contractor's Licence No. 1 8 4 4
--	--

Business Address (Street No./Name, number, RR)		Municipality
410 Rue Principale		Grenville Sur-La-Rouge
Province	Postal Code	Business E-mail Address

QC 10V1B0 downa@hawk.igs.net

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)
8192426469 Downing, Bruce

Well Technician's Licence No.	Signature of Technician	Date Submitted (yyyy/mm/dd)
3173		09/03/2021

1992 (11/2006)

M 04546

Date Received (yyyy/mm/dd)	Date of Inspection (yyyy/mm/dd)
2012-03-20	

MAR 30 2009	
Remarks	

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Consent

Address of Well Location (Street Number/Name, RR) 250. 270. 290 City Centre Ave		Lot	Concession	Township	County/District/Municipality	Signature of Technician/Contractor <i>Bruce Downing</i>	Date (yyyy/mm/dd) 2009/03/05
City/Town/Village Ottawa	Province Ontario	Postal Code	GPS Unit Make Garmin	Model Map 761m	Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify:		

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting Northing						From	To					
BH #1	18	4438135028612	4.57	20	HSA	PVC	1.5	1.5	4.5	Bentonite	2.3			2009/01/16
BH #2	18	4438165028542	4.62				1.5	1.5	4.6		2.5			2009/01/16
BH #3	18	4437935028529	5.11				2.1	2.1	5.1		3.5			2009/01/16
BH #5	18	4437095028515	3.58				2.0	2.0	3.5					2009/01/19
BH #12	18	4438175028499	4.86				1.8	1.8	4.8		3.6			2009/01/20
BH #14	18	4438105028570	4.95				1.5	1.5	4.5		2.1			2009/02/02
BH #15	18	4438385028541	4.57				1.5	1.5	4.5		3.0			2009/02/02
BH #16	18	4437845028531	4.57				1.5	1.5	4.5		2.7			2009/02/02
BH #17	18	4437915028498	4.57				3.0	3.0	4.5		3.3			2009/02/02
BH #18	18	4438265028505	4.57				3.0	3.0	4.5					2009/02/02

Well Contractor and Well Technician Information

Business Name of Well Contractor George Downing Estate Drilling Ltd		Business Address (Street Number/Name, RR) 410 Rue Principale Grenville Sur-la-Rouge		Municipality QC	Province
Postal Code J1G 1V1	Business Telephone No. (inc. area code) 811 924 2646	Well Contractor's Licence No. 1844	Business E-mail Address downing@hawk.igs.net		
Name of Well Technician (First Name, Last Name) Bruce Downing		Well Technician's Licence No. 2173	Date Submitted (yyyy/mm/dd) 2009/03/05	Signature of Technician <i>Bruce Downing</i>	

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2009/01/16	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2009/02/02
--	---

Ministry Use Only

Date Received (yyyy/mm/dd) MAR 30 2009	Date Inspected (yyyy/mm/dd)
Audit No. c 05151	Remarks m04546



SCALE 1 : 2,488



C-1844 M04546 C05751

MAR 30 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

Address of Well Location	Township	Lot	Concession
250 CITY CENTRE AVE.	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		

NAD83 — Zone 18

Easting: 443756.00

Northing: 5028682.00

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
GREY	STNS			0 m	.2 m
BRWN	FILL	SAND	GRVL	.2 m	1.67 m
BRWN	PEAT			1.67 m	2.29 m
GREY	CLAY		SLTY	2.29 m	3.2 m
GREY	TILL	SAND	SLTY	3.2 m	5.18 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume
From	To	(Material and Type)
1.3 m	1.8 m	BENTONITE

Method of Construction	Well Use
H.S.A.	Monitoring

Status of Well

Test Hole

Construction Record - Casing

Inside Diameter	Open Hole OR material	Depth	After test of well yield, water was	Draw Down	Recovery
		From	To	Time Water (min) level	Time Water (min) level
				SWL 2.5 m	

Construction Record - Screen

Outside Diameter	Material	Depth	Pump intake set at		
		From	To		
				1	1
				2	2
				3	3

Pumping Rate

5.8 cm PLASTIC

25

25

**Well Contractor and Well Technician
Information**

Well Contractor's Licence Number

1844

Recommended pump depth

30

30

40

40

Recommended pump rate

45

45

Well Production

50

50

Disinfected?

60

60

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth

Diameter

From To

0 m 5.18 m 20 cm

Audit Number: M04546**Date Well Completed:** January 19, 2009**Date Well Record Received by MOE:** March 30,
2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443817.00			
Northing: 5028495.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
HSA			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL 3.6 m
			1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.8 m		
			<i>Duration of Pumping</i>	
			4 4	

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		1.8 m 4.8 m		
			10 10	
			15 15	
			20 20	

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.8 m 20 cm

Audit Number: M04546**Date Well Completed:** January 20, 2009**Date Well Record Received by MOE:** March 30, 2009

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.57 m 20 cm

Audit Number: M04546**Date Well Completed:** January 16, 2009**Date Well Record Received by MOE:** March 30, 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443784.00			
Northing: 5028531.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL2.7 m
			1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.5 m		
			<i>Duration of Pumping</i>	
				2 2
				3 3
				4 4
				5 5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		1.5 m 4.5 m		
				10 10
				15 15
				20 20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

From To

4.57 m 20 cm

Audit Number: M04546

Date Well Completed: February 02, 2009

Date Well Record Received by MOE: March 30, 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443793.00			
Northing: 5028529.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL3.5 m
			1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	2.1 m		
			<i>Duration of Pumping</i>	
				2 2
				3 3
				4 4
				5 5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		2.1 m 5.1 m		
				10 10
				15 15
				20 20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

5.11 m 20 cm

Audit Number: M04546

Date Well Completed: January 16, 2009

Date Well Record Received by MOE: March 30,
2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443816.00			
Northing: 5028542.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole	<i>If pumping discontinued, give reason</i>	SWL2.5 m
		1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.5 m		
			<i>Duration of Pumping</i>	
				2 2
				3 3
				4 4
				5 5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		1.5 m 4.6 m		
				10 10
				15 15
				20 20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.62 m 20 cm

Audit Number: M04546**Date Well Completed:** January 16, 2009**Date Well Record Received by MOE:** March 30, 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443838.00			
Northing: 5028541.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL 3 m	
			1	1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.5 m		
			<i>Duration of Pumping</i>	
			4	4
			5	5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		1.5 m 4.5 m		
			10	10
			15	15
			20	20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.57 m 20 cm

Audit Number: M04546**Date Well Completed:** February 02, 2009**Date Well Record Received by MOE:** March 30, 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443826.00			
Northing: 5028505.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL	
			1	1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	3 m		
			<i>Duration of Pumping</i>	
			4	4
			5	5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		3 m 4.5 m		
			10	10
			15	15
			20	20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.57 m 20 cm

Audit Number: M04546**Date Well Completed:** February 02, 2009**Date Well Record Received by MOE:** March 30, 2009

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443791.00			
Northing: 5028498.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

HSA	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL 3.3 m
			1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	3 m		
			<i>Duration of Pumping</i>	
				2 2
				3 3
				4 4
				5 5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		3 m 4.5 m		
				10 10
				15 15
				20 20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.57 m 20 cm

Audit Number: M04546**Date Well Completed:** February 02, 2009**Date Well Record Received by MOE:** March 30, 2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443825.00			
Northing: 5028657.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.6 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.6 m 4.6 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.8 m 20 cm

Audit Number: M04482

Date Well Completed: May 08, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443815.00			
Northing: 5028651.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.5 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.9 m 20 cm

Audit Number: M04482

Date Well Completed: May 08, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443817.00			
Northing: 5028638.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1 m 4 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4 m 20 cm

Audit Number: M04482

Date Well Completed: May 08, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443825.00			
Northing: 5028617.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.4 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.4 m 4.4 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.4 m 20 cm

Audit Number: M04482

Date Well Completed: May 07, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

Address of Well Location	Township	Lot	Concession
255 CITY CENTRE AVENUE	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		

NAD83 — Zone 18

Easting: 443817.00

Northing: 5028630.00

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
	----			0 m	.1 m
BRWN	SAND	GRVL	FILL	.1 m	1.3 m
BRWN	SAND			1.3 m	4.9 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth		Type of Sealant Used	Volume
From	To	(Material and Type)	Placed
.5 m	1.3 m	BENTONITE	

Method of Construction Well Use

Direct Push Monitoring

Status of Well

Test Hole

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Construction Record - Casing**

Inside Diameter	Open Hole OR material	Depth
		From To

If pumping discontinued, give reason

SWL

1

1

Pump intake set at

2

2

Construction Record - Screen

Outside Diameter	Material	Depth
		From To

Pumping Rate

3

3

Duration of Pumping

4

4

5

5

Final water level

10

10

**Well Contractor and Well Technician
Information**

Well Contractor's Licence Number 1844

	40	40
<i>Recommended pump rate</i>	45	45
<i>Well Production</i>	50	50
	60	60
<i>Disinfected?</i>		

N

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>

0 m4.9 m20 cm

Audit Number: M04482

Date Well Completed: May 07, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443821.00			
Northing: 5028622.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.2 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.2 m 3.7 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

3.7 m 20 cm

Audit Number: M04482

Date Well Completed: May 07, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

Address of Well Location	Township	Lot	Concession
255 CITY CENTRE AVENUE	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		

NAD83 — Zone 18

Easting: 443831.00

Northing: 5028616.00

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

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

BENTONITE

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

Inside	Open Hole OR material	Depth
Diameter		FromTo
	STEEL	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

Outside	Material	Depth
Diameter		FromTo
		1.5 m4.5 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.9 m 20 cm

Audit Number: M04482

Date Well Completed: May 07, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443836.00			
Northing: 5028617.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.5 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

4.9 m 20 cm

Audit Number: M04482

Date Well Completed: May 07, 2009

Date Well Record Received by MOE: July 14,
2009

Well ID Number: 7125525

Well Audit Number: M04482

Well Tag Number: A083091

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7125525\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
255 CITY CENTRE AVENUE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443828.00			
Northing: 5028606.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

DIRECT PUSH

Monitoring

After test of well yield, water was

Draw Down

Recovery

Time Water
(min) levelTime Water
(min) level**Status of Well**

Test Hole

If pumping discontinued, give reason

SWL

1

1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
	STEEL	1.5 m

Pump intake set at

2

2

Pumping Rate

3

3

Duration of Pumping

4

4

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
		1.5 m 4.5 m

Final water level

10

10

If flowing give rate

15

15

20

20

Well Contractor and Well Technician Information

Recommended pump depth

25

25

Recommended pump rate

30

30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.5 m 20 cm

Audit Number: M04482**Date Well Completed:** May 07, 2009**Date Well Record Received by MOE:** July 14,
2009

Well ID Number: 7173323

Well Audit Number: Z140244

Well Tag Number: A094120

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

Address of Well Location	Township	Lot	Concession
270 CITY CENTER AVE.	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443839.00			
Northing: 5028526.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
BRWN	SAND	SOFT	DRY	0 m	2.44 m
BRWN	SAND	GRVL	HARD	2.44 m	3.35 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From	To	(Material and Type)	Placed	
0 m	.31 m	CONCRETE		
.31 m	.91 m	BENSEAL		
.91 m	3.35 m	SAND		

Method of Construction Well Use

Other Method	Test Hole	If pumping discontinued, give reason	1	2
DIRECT PUSH	Monitoring		3	3
		Pump intake set at	4	4

Status of Well

Test Hole			5	5
		Pumping Rate	10	10

Construction Record - Casing

Inside	Open Hole OR material	Depth	To	Duration of Pumping
Diameter		From		
5.2 cm		0 m	1.22 m	15
				20
				25

Construction Record - Screen

Outside	Material	Depth	To	If flowing give rate
Diameter		From		
6.03 cm		1.22 m	3.35 m	30
				40
				45

Well Contractor and Well Technician Information

Well Contractor's Licence Number	7241	Well Production	50	50
		Disinfected?	60	60

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>
0 m	3.35 m
	10.92 cm

Audit Number: Z140244

Date Well Completed: November 01, 2011

Date Well Record Received by MOE: December 09, 2011

Well ID Number: 7173324

Well Audit Number: Z140245

Well Tag Number: A123877

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTER AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443839.00			
Northing: 5028528.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BRWN	SAND	SOFT	DRY	0 m	2.44 m
BRWN	SAND	GRVL	HARD	2.44 m	3.35 m

Annular Space/Abandonment Sealing Record

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>
0 m	.31 m	CONCRETE
.31 m	.91 m	BENSEAL
.91 m	3.35 m	SAND

Results of Well Yield Testing

<i>Draw Down</i>	<i>Recovery</i>
<i>Time</i>	<i>Time</i>
<i>Water</i>	<i>Water</i>
<i>(min) level</i>	<i>(min) level</i>
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

Method of Construction Well Use

Other Method	Test Hole
DIRECT PUSH	Monitoring

Status of Well

Test Hole

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
5.2 cm		0 m 1.22 m

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From To</i>
6.03 cm		1.22 m 3.35 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number 7241

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>
0 m	3.35 m 10.92 cm

Audit Number: Z140245

Date Well Completed: November 01, 2011

Date Well Record Received by MOE: December 09, 2011

Well ID Number: 7173325

Well Audit Number: Z140246

Well Tag Number: A123878

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTER AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443858.00			
Northing: 5028529.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BRWN	SAND	FILL	SOFT	0 m	3.1 m
BRWN	SAND	GRVL	HARD	3.1 m	4.27 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>(min) level</i>	<i>(min) level</i>
0 m	.31 m	CONCRETE		
.31 m	.91 m	BENSEAL		
.91 m	4.27 m	SAND		

Method of Construction Well Use

<i>Other Method</i>	<i>Test Hole</i>	<i>If pumping discontinued, give reason</i>		
DIRECT PUSH	Monitoring			

Status of Well

<i>Test Hole</i>	<i>Pump intake set at</i>		

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Duration of Pumping</i>	
<i>Diameter</i>		<i>From</i>	<i>To</i>	
5.2 cm		0 m	1.22 m	

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>If flowing give rate</i>	
<i>Diameter</i>		<i>From</i>	<i>To</i>	
6.03 cm		1.22 m	4.27 m	

Well Contractor and Well Technician Information

<i>Well Contractor's Licence Number</i>	<i>7241</i>	<i>Well Production</i>	

Disinfected?

Water Details*Water Found at Depth Kind***Hole Diameter**

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>
0 m	4.27 m
10.92 m	

Audit Number: Z140246**Date Well Completed:** November 01, 2011**Date Well Record Received by MOE:** December 09, 2011

Well ID Number: 7179551

Well Audit Number: Z134460

Well Tag Number: A123897

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

Address of Well Location	Township	Lot	Concession
801 ALBERT AVENUE	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON	Ottawa	ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443602.00			
Northing: 5028655.00			

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth	
				From	To
BLCK	LOAM		SOFT	0 m	.31 m
BRWN	FILL	STNS	SAND	.31 m	2.44 m
GREY	CSND	SILT	SOFT	2.44 m	4.27 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume			
From	To	(Material and Type)	Placed		
0 m	.31 m	FLUSHMOUNT/ CONCRETE			
.31 m	2.44 m	BENTONITE			
2.44 m	4.27 m	FILTER SAND			
				Draw Down	Recovery
				Time Water	Time Water
				(min) level	(min) 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

Method of Construction	Well Use
Direct Push	Test Hole
	Monitoring

Status of Well

Observation Wells

Construction Record - Casing

Inside	Open Hole OR material	Depth			
Diameter		From	To		
4.03 cm	PLASTIC	0 m	2.74 m		
				20	20
				25	25

Construction Record - Screen

Outside	Material	Depth			
Diameter		From	To		
4.82 cm	PLASTIC	2.74 m	4.27 m		
				30	30
				40	40
				45	45

Well Contractor and Well Technician Information

Well Production	50	50
	60	60

Well Contractor's Licence Number

7241

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Diameter
From To

0 m 4.27 m 8.25 cm

Audit Number: Z134460

Date Well Completed: January 09, 2012

Date Well Record Received by MOE: April 17,
2012

Well ID Number: 7181433

Well Audit Number: Z135044

Well Tag Number: A123896

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
801 ALBERT AVE	NEPEAN TOWNSHIP		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443627.00			
Northing: 5028633.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BLCK	LOAM		SOFT	0 m	.31 m
BRWN	SAND	STNS	SOFT	.31 m	2.44 m
	SILT		LOOS	2.44 m	4.27 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>			
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>Placed</i>	<i>Draw Down</i>	<i>Recovery</i>
0 m	.31 m	CONCRETE			
.31 m	2.4 m	BENTONITE		<i>Time Water</i>	<i>Time Water</i>
2.4 m	4.2 m	FILTER SAND		<i>(min) level</i>	<i>(min) level</i>
			<i>After test of well yield, water was</i>	SWL	

Method of Construction Well Use

Direct Push	Monitoring	<i>If pumping discontinued, give reason</i>	1	1
			2	2
		<i>Pump intake set at</i>	3	3
			4	4

Status of Well**Construction Record - Casing**

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>	<i>Pumping Rate</i>	
4.03 cm	PLASTIC	0 m	2.7 m	<i>Duration of Pumping</i>	10
				<i>Final water level</i>	15

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>	<i>If flowing give rate</i>	
4.8 cm	PLASTIC	2.7 m	4.2 m	<i>Recommended pump depth</i>	30
					40

Well Contractor and Well Technician Information

<i>Well Contractor's Licence Number</i>	7241	<i>Well Production</i>	50	50
			60	60

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
From To

0 m 4.2 m 8.25 cm

Audit Number: Z135044**Date Well Completed:** January 09, 2012**Date Well Record Received by MOE:** May 22,
2012

Well ID Number: 7181436

Well Audit Number: Z135043

Well Tag Number: A079094

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
801 ALBERT AVE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443704.00			
Northing: 5028710.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From</i> <i>To</i>
BLCK	LOAM		SOFT	0 m
BRWN	SAND	STNS	SOFT	
GREY	GRVL	STNS	SAND	

Annular Space/Abandonment Sealing Record

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From</i> <i>To</i>	<i>(Material and Type)</i>	<i>Placed</i>

0 m	.31 m	CONCRETE
.31 m	2.74 m	BENTONITE
2.74 m	4.5 m	SAND

Results of Well Yield Testing

<i>Draw Down</i>	<i>Recovery</i>
<i>Time</i> <i>Water</i>	<i>Time</i> <i>Water</i>
<i>(min)</i> <i>level</i>	<i>(min)</i> <i>level</i>
SWL	

Method of Construction Well Use

Direct Push	Monitoring
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<i>If pumping discontinued, give reason</i>	1	1
	2	2

<i>Pump intake set at</i>	3	3
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Status of Well**Construction Record - Casing**

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>
4 cm	PLASTIC	0 m 3.1 m

<i>Pumping Rate</i>	5	5
---------------------	---	---

<i>Duration of Pumping</i>	10	10
----------------------------	----	----

<i>Final water level</i>	15	15
--------------------------	----	----

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>
4.8 cm	PLASTIC	3.1 m 4.5 m

<i>If flowing give rate</i>	25	25
-----------------------------	----	----

<i>Recommended pump depth</i>	30	30
-------------------------------	----	----

	40	40
--	----	----

Well Contractor and Well Technician Information

<i>Well Contractor's Licence Number</i>	7241	<i>Well Production</i>	50	50
			60	60

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
From To

0 m 4.5 m 8.2 cm

Audit Number: Z135043**Date Well Completed:** January 09, 2012**Date Well Record Received by MOE:** May 22,
2012

Well ID Number: 7190437

Well Audit Number: Z148867

Well Tag Number: A033403

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
---------------------------------	-----------------	------------	-------------------

CLIFF ST AND WELLINGTON ST NEPEAN TOWNSHIP

<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
-------------------------------------	--------------------------	-----------------	--------------------

OTTAWA-CARLETON	OTTAWA	ON	n/a
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<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>
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NAD83 — Zone 18

Easting: 443882.00

Northing: 5028773.00

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From</i>
				<i>To</i>
				0 ft

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>Placed</i>	
0 ft	37.583	3/8 BENTONITE CHIPS		
	ft			

Method of Construction	Well Use
Boring	Test Hole
	Monitoring

After test of well yield, water was

SWL

1

1

If pumping discontinued, give reason

2

2

3

3

Status of Well

Abandoned-Other

Pump intake set at

4

4

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>

Pumping Rate

5

5

Duration of Pumping

10

10

Final water level

15

15

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>
<i>Diameter</i>		<i>From</i> <i>To</i>

If flowing give rate

20

20

25

25

Recommended pump depth

30

30

Recommended pump rate

40

40

Well Contractor and Well Technician Information

Well Contractor's Licence Number 7323

Well Production

45

45

50

50

Disinfected?

60

60

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Diameter
From To

0 ft 37.583 ft 6 inch

Audit Number: Z148867

Date Well Completed: October 19, 2012

Date Well Record Received by MOE: October
29, 2012

Well ID Number: 7192919

Well Audit Number: Z152964

Well Tag Number: A141858

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTRE ST	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	OTTAWA	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443806.00			
Northing: 5028520.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BRWN	----	CSND	DRY	0 m	3.35 m
BRWN	----	CSND	HARD	3.35 m	5.49 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>(min) level</i>	<i>(min) level</i>
0 m	.31 m	CONCRETE/FLUSHMOUNT		
.31 m	2.13 m	BENSEAL		
2.13 m	5.49 m	SAND		
			<i>After test of well yield, water was</i>	
			1	1
Method of Construction				
Rotary (Convent.)				
Well Use				
Test Hole			<i>If pumping discontinued, give reason</i>	2
Monitoring				3
			<i>Pump intake set at</i>	4
			<i>Pumping Rate</i>	5
				10
			<i>Duration of Pumping</i>	15
			<i>Final water level</i>	20
				25
			<i>If flowing give rate</i>	30
			<i>Recommended pump depth</i>	40
			<i>Recommended pump rate</i>	45
				50
			<i>Well Production</i>	60

Status of Well

Observation Wells

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>		
5.2 cm	PLASTIC	0 m	2.44 m		

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>		
6.03 cm	PLASTIC	2.44 m	5.49 m		

Well Contractor and Well Technician Information

Well Contractor's Licence Number 7241

Disinfected?

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>
0 m	5.49 m 10.92 cm

Audit Number: Z152964

Date Well Completed: November 21, 2012

Date Well Record Received by MOE: December 06, 2012

Well ID Number: 7192920

Well Audit Number: Z152963

Well Tag Number: A141857

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTRE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	OTTAWA	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443805.00			
Northing: 5028524.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BRWN	SAND	----	DRY	0 m	2.74 m
BRWN	SAND	----		2.74 m	5.49 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>(min) level</i>	<i>(min) level</i>
0 m	.31 m	CONCRETE/FLUSHMOUNT		
.31 m		BENSEAL AND SAND		
			Time Water	Time Water
			(min) level	(min) level
			SWL	

Method of Construction Well Use

Rotary (Convent.)	Test Hole			
	Monitoring			
		After test of well yield, water was	1	1
		If pumping discontinued, give reason	2	2
			3	3

Status of Well

Observation Wells		Pump intake set at	4	4
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Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>		<i>Pumping Rate</i>	
<i>Diameter</i>		<i>From</i>	<i>To</i>		
5.2 cm	PLASTIC	0 m	2.44 m		
				Duration of Pumping	
				Final water level	

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>		<i>If flowing give rate</i>	
<i>Diameter</i>		<i>From</i>	<i>To</i>		
6.03 cm	PLASTIC	2.49 m	5.49 m		
				Recommended pump depth	

Well Contractor and Well Technician Information

Well Contractor's Licence Number	7241	Well Production	45	45
			50	50
			60	60

Disinfected?

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>	<i>Diameter</i>
<i>From</i>	<i>To</i>
0 m	5.49 m 10.92 cm

Audit Number: Z152963

Date Well Completed: November 21, 2012

Date Well Record Received by MOE: December 06, 2012

Well ID Number: 7192921

Well Audit Number: Z154423

Well Tag Number: A141856

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTRE	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	OTTAWA	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443847.00			
Northing: 5028541.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BLCK	MUCK	CLAY	SOFT	0 m	2.74 m
BRWN	----	CSND	HARD	2.74 m	3.35 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>(min) level</i>	<i>(min) level</i>
0 m	.31 m	CONCRETE/FLUSHMOUNT		
.31 m	.91 m	BENSEAL		
.91 m	3.35 m	SAND		

Method of Construction Well Use

Rotary (Convent.)	Test Hole		
	Monitoring		

Status of Well

Observation Wells

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Duration of Pumping</i>
<i>Diameter</i>		<i>From</i>	<i>To</i>
5.2 cm	PLASTIC	0 m	.91 m

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Recommended pump depth</i>
<i>Diameter</i>		<i>From</i>	<i>To</i>
6.03 cm	PLASTIC	.91 m	3.35 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number 7241

Disinfected?

Water Details

Water Found at Depth Kind

Hole Diameter

<i>Depth</i>		<i>Diameter</i>
<i>From</i>	<i>To</i>	
0 m	3.35 m	11.43 cm

Audit Number: Z154423

Date Well Completed: November 21, 2012

Date Well Record Received by MOE: December 06, 2012

Well ID Number: 7192922

Well Audit Number: Z154422

Well Tag Number: A141855

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

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
270 CITY CENTRE AVE	NEPEAN TOWNSHIP		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	OTTAWA	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443848.00			
Northing: 5028545.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>	
				<i>From</i>	<i>To</i>
BLCK	MUCK	CLAY	SOFT	0 m	2.74 m
BRWN	----	CSND	HARD	2.74 m	3.66 m

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>	<i>Draw Down</i>	<i>Recovery</i>
<i>From</i>	<i>To</i>	<i>(Material and Type)</i>	<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>
0 m	.31 m	CONCRETE/FLUSHMOUNT		
.31 m	.91 m	BENSEAL		
.91 m	3.66 m	SAND		

Method of Construction Well Use

Rotary (Convent.)	Test Hole		
	Monitoring		

Status of Well

Test Hole			
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Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>	<i>Duration of Pumping</i>	
5.2 cm	PLASTIC	0 m	1.22 m		

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>			
<i>Diameter</i>		<i>From</i>	<i>To</i>	<i>Recommended pump depth</i>	
6.03 cm	PLASTIC	1.22 m	3.66 m		

Well Contractor and Well Technician Information

<i>Well Contractor's Licence Number</i>	7241		
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Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
From To

0 m

Audit Number: Z154422**Date Well Completed:** November 21, 2012**Date Well Record Received by MOE:** December
06, 2012

Well ID Number: 7202037

Well Audit Number: Z168676

Well Tag Number: A145365

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443793.00			
Northing: 5028563.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168676

Date Well Completed: April 23, 2013

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7202038

Well Audit Number: Z168591

Well Tag Number: A145954

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443813.00			
Northing: 5028617.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well**Construction Record - Casing**

Inside	Open Hole OR material	Depth
Diameter		From To

If pumping discontinued, give reason

1 1

2 2

3 3

Pump intake set at

4 4

Construction Record - Screen

Outside	Material	Depth
Diameter		From To

Pumping Rate

5 5

10 10

Duration of Pumping

15 15

Well Contractor and Well Technician Information

Final water level

20 20

25 25

Well Contractor's Licence Number 7241

If flowing give rate

30 30

Recommended pump depth

40 40

Recommended pump rate

45 45

50 50

Well Production

60 60

Disinfected?

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
*From To***Audit Number:** Z168591**Date Well Completed:** April 18, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202039

Well Audit Number: Z168595

Well Tag Number: A145955

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443807.00			
Northing: 5028608.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168595

Date Well Completed: April 18, 2013

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7202051

Well Audit Number: Z168594

Well Tag Number: A145956

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443802.00			
Northing: 5028624.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
*From To***Audit Number:** Z168594**Date Well Completed:** April 18, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202052

Well Audit Number: Z168590

Well Tag Number: A145957

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443815.00			
Northing: 5028611.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details**Hole Diameter***Water Found at Depth Kind**Depth Diameter*
*From To***Audit Number:** Z168590**Date Well Completed:** April 18, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202053

Well Audit Number: Z168668

Well Tag Number: A145958

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443804.00			
Northing: 5028591.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well**Construction Record - Casing**

Inside	Open Hole OR material	Depth
Diameter		From To

If pumping discontinued, give reason

1 1

2 2

3 3

Pump intake set at

4 4

Construction Record - Screen

Outside	Material	Depth
Diameter		From To

Pumping Rate

5 5

10 10

Duration of Pumping

15 15

Well Contractor and Well Technician Information

Final water level

20 20

25 25

Well Contractor's Licence Number 7241

If flowing give rate

30 30

Recommended pump depth

40 40

Recommended pump rate

45 45

50 50

Well Production

60 60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168668

Date Well Completed: April 18, 2013

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7202054

Well Audit Number: Z168669

Well Tag Number: A145959

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443816.00			
Northing: 5028588.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168669

Date Well Completed: September 19, 2012

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7202055

Well Audit Number: Z168671

Well Tag Number: A145961

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443811.00			
Northing: 5028577.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
*From To***Audit Number:** Z168671**Date Well Completed:** April 19, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202056

Well Audit Number: Z168670

Well Tag Number: A145960

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443799.00			
Northing: 5028584.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details*Water Found at Depth Kind***Hole Diameter***Depth Diameter*
*From To***Audit Number:** Z168670**Date Well Completed:** April 19, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202057

Well Audit Number: Z168673

Well Tag Number: A145963

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443807.00			
Northing: 5028570.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168673

Date Well Completed: April 19, 2013

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7202058

Well Audit Number: Z168672

Well Tag Number: A145962

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443820.00			
Northing: 5028580.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well

1

1

Construction Record - Casing

If pumping discontinued, give reason

2

2

Inside	Open Hole OR material	Depth
Diameter		From To

3

3

Pump intake set at

4

4

Construction Record - Screen

Pumping Rate

5

5

Outside	Material	Depth
Diameter		From To

10

10

Duration of Pumping

15

15

Well Contractor and Well Technician Information

Final water level

20

20

Well Contractor's Licence Number 7241

If flowing give rate

25

25

30

30

Recommended pump depth

40

40

Recommended pump rate

45

45

50

50

Well Production

60

60

Disinfected?

Water Details**Hole Diameter***Water Found at Depth Kind**Depth Diameter*
*From To***Audit Number:** Z168672**Date Well Completed:** April 19, 2013**Date Well Record Received by MOE:** May 27,
2013

Well ID Number: 7202059

Well Audit Number: Z168674

Well Tag Number: A145964

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

Address of Well Location	Township	Lot	Concession
	OTTAWA CITY		
County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA-CARLETON		ON	n/a
UTM Coordinates	Municipal Plan and Sublot Number Other		
NAD83 — Zone 18			
Easting: 443821.00			
Northing: 5028575.00			

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth	Type of Sealant Used	Volume	Draw Down	Recovery
From To	(Material and Type)	Placed	Time Water (min) level	Time Water (min) level

Method of Construction Well Use

After test of well yield, water was

SWL

Status of Well**Construction Record - Casing**

Inside	Open Hole OR material	Depth
Diameter		From To

If pumping discontinued, give reason

1 1

2 2

3 3

Pump intake set at

4 4

Construction Record - Screen

Outside	Material	Depth
Diameter		From To

Pumping Rate

5 5

10 10

Duration of Pumping

15 15

Well Contractor and Well Technician Information

Final water level

20 20

25 25

Well Contractor's Licence Number 7241

If flowing give rate

30 30

Recommended pump depth

40 40

Recommended pump rate

45 45

50 50

Well Production

60 60

Disinfected?

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter
From To

Audit Number: Z168674

Date Well Completed: April 19, 2013

Date Well Record Received by MOE: May 27,
2013

Well ID Number: 7121083

Well Audit Number: M04546

Well Tag Number: A074574

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

This well is part of a well cluster.

The information below is extracted from the cluster well record.

More information on the cluster well record (related to other wells in the cluster)

[is also available. \(Wells_Report.htm?wellid=7121083\)](#)**Well Location**

<i>Address of Well Location</i>	<i>Township</i>	<i>Lot</i>	<i>Concession</i>
250 CITY CENTRE AVE.	OTTAWA CITY		
<i>County/District/Municipality</i>	<i>City/Town/Village</i>	<i>Province</i>	<i>Postal Code</i>
OTTAWA-CARLETON	Ottawa	ON	n/a
<i>UTM Coordinates</i>	<i>Municipal Plan and Sublot Number</i>	<i>Other</i>	
NAD83 — Zone 18			
Easting: 443810.00			
Northing: 5028570.00			

Overburden and Bedrock Materials Interval

<i>General Colour</i>	<i>Most Common Material</i>	<i>Other Materials</i>	<i>General Description</i>	<i>Depth</i>
				<i>From To</i>

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

<i>Depth</i>	<i>Type of Sealant Used</i>	<i>Volume</i>
<i>From To</i>	<i>(Material and Type)</i>	<i>Placed</i>
	BENTONITE	

Method of Construction Well Use

	Monitoring	<i>After test of well yield, water was</i>	<i>Draw Down</i>	<i>Recovery</i>
HSA			<i>Time Water</i>	<i>Time Water</i>
			<i>(min) level</i>	<i>(min) level</i>

Status of Well

Test Hole		<i>If pumping discontinued, give reason</i>	SWL2.1 m
			1 1

Construction Record - Casing

<i>Inside</i>	<i>Open Hole OR material</i>	<i>Depth</i>	<i>Pump intake set at</i>	
<i>Diameter</i>		<i>From To</i>	<i>Pumping Rate</i>	
	PLASTIC	1.5 m		
			<i>Duration of Pumping</i>	
				2 2
				3 3
				4 4
				5 5

Construction Record - Screen

<i>Outside</i>	<i>Material</i>	<i>Depth</i>	<i>Final water level</i>	
<i>Diameter</i>		<i>From To</i>	<i>If flowing give rate</i>	
		1.5 m 4.5 m		
				10 10
				15 15
				20 20

Well Contractor and Well Technician Information

<i>Recommended pump depth</i>	25	25
<i>Recommended pump rate</i>	30	30

Well Contractor's Licence Number

1844

50

50

60

60

Disinfected?

N

Water Details**Hole Diameter**

Water Found at Depth Kind

Depth Diameter

From To

4.95 m 20 cm

Audit Number: M04546**Date Well Completed:** February 02, 2009**Date Well Record Received by MOE:** March 30, 2009

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Well record information

Full well record information. Contains information from the original well record and any subsequent updates.

Well record information:

Well ID

Well ID Number: 7213389

Well Audit Number: Z168845

Well Tag Number: A155679

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

Well Location

Address of Well Location	
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18
	Easting: 443676.00
	Northing: 5028751.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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Method of Construction & Well Use

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

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
-----------------	-----------------------	------------	----------

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 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
------------	----------	----------

Audit Number: Z168845

Date Well Completed: November 11, 2013

Date Well Record Received by MOE: December 18, 2013

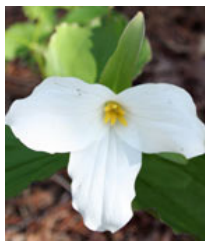
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Ministry of
the Environment

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

S-12069

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☒ Metric ☐ Imperial

A123897

Tag#: A123897

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization Phoenix Development Corp.	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
		Telephone No. (inc. area code)	

Well Location

Address of Well Location (Street Number/Name) 801 Albert Ave	Township	Lot	Concession
County/District/Municipality	City/Town/Village Ottawa	Province Ontario	Postal Code
UTM Coordinates NAD 83 184436025028655	Zone 18N	Easting 4436025	Northing 5028655
Municipal Plan and Sublot Number		Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
BLK	top soil		soft	0 .31
BRN	fill	stones, sand	dense	.31 2.44
GRY	coarse sand	silt	soft	2.44 4.27

Annular Space			Volume Placed (m³/ft³)
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)		
0 .31	concrete / pushmount		
.31 2.44	benfonite		
2.44 4.27	GRB sand		

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input checked="" type="checkbox"/> Other, specify Direct Push		<input type="checkbox"/> Other, specify		

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
4.03	PVC	.336	0 2.74	<input type="checkbox"/> Water Supply
				<input type="checkbox"/> Replacement Well
				<input checked="" type="checkbox"/> Test Hole
				<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well
				<input checked="" type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)
				<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality
				<input type="checkbox"/> Abandoned, other, specify
				<input type="checkbox"/> Other, specify

Construction Record - Screen			Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
4.82	PVC	10	2.74 4.27	<input type="checkbox"/> Water Supply
				<input type="checkbox"/> Replacement Well
				<input checked="" type="checkbox"/> Test Hole
				<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well
				<input checked="" type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)
				<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality
				<input type="checkbox"/> Abandoned, other, specify
				<input type="checkbox"/> Other, specify

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From To	
		0 4.27	8.25
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Business Name of Well Contractor Strata Soil Sampling		Well Contractor's Licence No. 72411	
Business Address (Street Number/Name) 147-2 W. Beaver Creek		Municipality Richmond Hill	
Province ON	Postal Code L4B1C6	Business E-mail Address wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code) 9057649304		Name of Well Technician (Last Name, First Name) McCoy, James	
Well Technician's Licence No. 3636		Signature of Technician and/or Contractor [Signature]	
Date Submitted 20120616			

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
<input type="checkbox"/> Clear and sand free		Time (min)	Water Level (m/ft)
<input type="checkbox"/> Other, specify			
If pumping discontinued, give reason:		Static Level	
Pump intake set at (m/ft)		1	1
Pumping rate (l/min / GPM)		2	2
Duration of pumping hrs + min		3	3
Final water level end of pumping (m/ft)		4	4
If flowing give rate (l/min / GPM)		5	5
Recommended pump depth (m/ft)		10	10
Recommended pump rate (l/min / GPM)		15	15
Well production (l/min / GPM)		20	20
Disinfected?		25	25
<input type="checkbox"/> Yes <input type="checkbox"/> No		30	30
		40	40
		50	50
		60	60

Map of Well Location

Please provide a map below following instructions on the back.

See Map
MWI

Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 201206109	Date Work Completed 201206109	Ministry Use Only Audit No. 2134460 Received APR 17 2012
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Google earth



C7241

APR 17 2012

2134460

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Daniel J. Arnott,
P.Eng.

POSITION

Environmental Engineer

EDUCATION

University of Waterloo, B.A.Sc., 2008
Honours Environmental Engineering

MEMBERSHIPS

Professional Engineers of Ontario
International Association of Hydrogeologists, Canadian National Chapter
Ottawa Geotechnical Group

EXPERIENCE

2010 to Present:

Paterson Group Inc.

Consulting Engineers – Ottawa, ON
Geotechnical and Environmental Division
Environmental Engineer

2006 (Co-operative Work Terms), 2008 to 2010

Jagger Hims Limited (acquired by GENIVAR in 2009, now WSP Services)

Environmental Consulting Engineers – Collingwood and Ottawa, ON
Project Manager – Environment and Hydrogeology

2007 (Co-operative Work Term)

SNC-Lavalin Environment Inc. (formerly Aqua Terre Solutions Inc.)

Environmental Consulting Engineers – Calgary, AB
Field Technician – Environmental Division

SELECT LIST OF PROJECTS

Remediation supervision and RSC application – Cotton Mill development, Cornwall, ON
Remediation supervision – former bulk fuel terminal, Hunt Club Road, Ottawa, ON
Remediation and supervision – high-rise development, Elgin Street, Ottawa, ON
Groundwater monitoring reports – existing landfill site, Mattawa, ON
Hydrogeological testing - LRT project, Ottawa, Ontario
Permit To Take Water application - Lansdowne Park redevelopment, Ottawa, ON
Soil vapour sampling program – commercial site, Ottawa, ON
Phase I & II ESA and remediation supervision – former rail lands, Ottawa, ON
Groundwater monitoring and construction inspection – landfill site, Elmvale, ON
Monitoring and sampling at active and closed landfill sites – Niagara Region, ON
Groundwater monitoring program, Sir Adam Beck 3 Tunnel – Niagara Falls, ON
Phase II ESA and assessment of remedial alternatives – Morrisburg, ON
Hydrogeological Study – proposed quarry expansion, Duntroon, ON
Pump tests and packer testing, proposed quarry – Dufferin County, ON

Phase I and II ESAs – various locations, Alberta and eastern Ontario
Soil and groundwater remediation programs – various locations, Alberta and Ontario
Permits To Take Water – various locations, eastern and southwestern Ontario
Aggregate Inventory and Hydrogeological Studies – various locations, northern Ontario
Transportation Environmental Study Reports - various projects throughout Ontario

**Environmental
Engineering**

**Geotechnical
Engineering**

**Materials Testing
Quality Control**

Building Sciences

Hydrogeology

**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
Consulting 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
Rideau Centre Expansion project - Ottawa
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Investigation and Remediation – Cotton Mill Redevelopment, Cornwall
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
Assessment and Remediation - North Bay Airport
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
PWGSC Building – 90 Elgin Street - Ottawa
Remediation Program - Ottawa Train Yards
MHLH Facility – CFB Petawawa
Ottawa Congress Centre
Lansdowne Park Redevelopment - Ottawa

**Environmental
Engineering**

**Geotechnical
Engineering**

**Materials Testing
Quality Control**

Building Science

Hydrogeology

**Archaeological
Services**