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Phase I - Environmental Site Assessment

201 Friel Street
Ottawa, Ontario

Prepared For

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Report: PE4033-1

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for part of the property addressed 201 Friel Street, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property was first developed prior to 1891 with a residential dwelling. At that time the property was addressed 134 Chapel Street. The residential dwelling was removed circa 1965 and the present-day parking structure was completed by 1976. No environmental concerns were identified with respect to the historical use of the subject site.

The area of the subject site has been developed since before 1900. Many properties in the area have undergone redevelopment with new residential or commercial buildings since that time. A total of seventeen potentially contaminating activities were identified for properties within the Phase I-ESA study area. None of these potentially contaminating activities were considered to represent an area of potential environmental concern for the subject site.

Following the historical review a site visit was conducted. The site is currently occupied by a two level concrete parking structure, with one underground level and one aboveground level, for the residential apartment building at 201 Friel Street. Neighbouring property use is generally commercial, institutional and residential. No additional potentially contaminating activities were identified during the site visit.

Conclusion

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

1.0 INTRODUCTION

At the request of Ottawa Community Housing Corporation, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for the eastern portion of 201 Friel 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 Phase I-ESA 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. Barron Meyerhoffer of Ottawa Community Housing Corporation. Mr. Meyerhoffer can be reached by mail at 731 Chapel Street, Ottawa, Ontario.

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:	201 Friel Street, Ottawa, Ontario.
Legal Description:	Part 1 and Part of Parts 2 and 4, Registered Plan 4R-826, City of Ottawa.
Property Identification Number:	04213-0179.
Location:	The subject site is located to the south of Beausoleil Drive and to the west of Chapel Street, in the City of Ottawa, Ontario. For the purpose of this report, Friel Street is considered to run in a north-south direction. The subject site is shown on Figure 1 - Key Plan following the body of this report.
Latitude and Longitude:	45° 25' 53" N, 75° 40' 55" W.
Site Description:	
Configuration:	Rectangular.
Site Area:	Approximately 1,100 m ² .
Zoning:	R5B – Residential Fifth Density Zone.
Current Use:	The subject site is currently occupied by a condemned two level parking garage (one above and one below ground), which formerly serviced the residential apartment building at 201 Friel Street.
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 Phase I-ESA 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 Phase I-ESA 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 (beyond the property boundary) 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

The subject property was observed in the 1922 aerial photographs as utilized for residential purposes, with a single residential dwelling. Based on the directories, the previous site address (134 Chapel Street) was listed as early as 1891 as a residential dwelling. No earlier data is available for the subject site. The use of the subject site as a residential dwelling is considered to be the first developed use of the subject property.

Fire Insurance Plans

Fire insurance plans (FIPs) from 1956 were reviewed for the area of the subject property. The property now addressed 201 Friel Street was occupied by four duplex or triplex dwellings and two single family dwellings in the 1956 FIPs. The subject site (the eastern portion of 201 Friel Street) was occupied by a single family dwelling (addressed 134 Chapel Street at that time) and a detached private garage. Neighbouring properties were all residential with the exception of the synagogue to the east of the subject site, across Chapel Street. Beausoleil Drive (to the north of the site) was not constructed at this time.

Retail fuel outlets with underground storage tanks (USTs) were observed at 481 Rideau Street, approximately 140 m to the southeast, and at 490 Rideau Street, approximately 200 m to the southeast. A OTC bus garage was identified at 110-116 Cobourg Street, approximately 170 m to the east of the subject site and an automotive service garage at 402-404 Rideau Street, approximately 115 m to the southwest of the subject site.

Based on the separation distances from the subject site, none of the properties associated with the potentially contaminating activities listed above are considered to represent areas of potential environmental concern for the subject site.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1865 to 2011 as part of the Phase I ESA. The subject property was listed as early as 1891 as a residential dwelling (Lapierre, E.) as 134 Chapel Street. The subject property was listed as residential until 1947 when the listing was Ottawa benevolent Hebrew society (and a family name residence). The address 134 Chapel Street was not listed by 1965. The address 201 Friel Street has always been listed as residential since 1907. Apartments were listed at 201 Friel Street since 1987. No concerns were noted regarding the city directories reviewed regarding the subject site.

Several Potentially Contaminating Activities (PCA) were identified at properties within the Phase I-ESA. These PCAs are summarized in Table 1 below.

Table 1: City Directories Summary – PCAs in Phase I-ESA Study Area			
Address	Listed Activity (years listed)	Distance / Orientation from site	Potential Environmental Concern (Y / N)
106, 110-116 Cobourg Street	OTC Streetcar Barn (1920s-1940s)	170 m east	N
329/333 Rideau Street	Retail fuel outlet (1900s-1980s)	230 m southwest	N
351-357 Rideau Street	Retail fuel outlet and automotive service garage (1900s-1950s)	170 m southwest	N
375 Rideau Street	Dry Cleaner (1970s-2000s)	160 m southwest	N
391 Rideau Street	Vail's Fabric Care, dry cleaners (1957-1976)	100 m southwest	N
400-402 Rideau Street	Autobody shop (1920s-1967)	115 m southwest	N
430-432 Rideau Street	Commercial Printers Ltd. (1967)	105 m south	N
450 Rideau Street	Retail fuel outlet (1961-1980)	110 m south	N
478½ Rideau Street	Parker Cleaners, dry cleaners (1940s-1960s)	160 m southeast	N
481 Rideau Street	Retail fuel outlet and automotive service garage (1950s-2000s)	140 m southeast	N
497 Rideau Street	Craig Cleaners, dry cleaners (1960s-1990s)	190 m southeast	N

Based on the separation distances from the subject site, none of the properties associated with the potentially contaminating activities listed above are considered to represent areas of potential environmental concern for the subject site.

Environmental Reports

Paterson has conducted various environmental assessments in the area of the subject site. A review of these reports identified a number of off-site potentially contaminating activities along Rideau Street, none of which were considered to be a concern for the subject site. No previous environmental reports were available for the subject site.

Plan of Survey

Paterson was provided with a Topographic Plan of the subject site, prepared by Farley, Smith and Denis Surveying Ltd., dated April 10, 2017. The plan includes the properties addressed 200 and 201 Friel Street in their entirety. The subject site consists of the eastern portion of 201 Friel Street, which is depicted as underground parking garage with an entrance lane on the east side from Chapel Street. A copy of the plan is included in Appendix 1 of this report.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 2, 2017. The subject site is not listed in the NPRI database. There are no properties registered in the NPRI database within the Phase I-ESA study area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified within the Phase I-ESA study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. The response from the MOECC identified one record for a certificate of approval of a standby diesel generator, dated February 2004. No other records were identified responsive to the request.

MOECC Coal Gasification Plant Inventory

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

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. The response from the MOECC indicates that no incident records were identified responsive to the request.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. The response from the MOECC indicates that no waste management records were identified responsive to the request.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. The response from the MOECC indicates that no other records were identified responsive to the request.

MOECC Brownfields Environmental Site Registry

A search of the MOECC Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. One RSC was listed for 481 Rideau Street, located approximately 140 m to the southeast. Based on the RSC, no remedial action was required for soil or groundwater at the property. Based on the distance and the details of the listing, no concerns were identified with respect to the RSC listing. No other RSC listings were identified within the Phase I-ESA study area

MOECC Waste Disposal Site Inventory

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

Areas of Natural Significance

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

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on May 11, 2017 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA indicated that there were no records for the subject site. The TSSA response indicated that there are records for three active underground storage tanks at the Bell Canada property, located at 393 Rideau Street. A copy of the records was requested and the records were issued on June 22, 2017.

The report indicated that the three tanks are fibreglass construction, their location is not included in the report. The first tank is a double walled fibreglass fuel oil underground storage tank installed in 2005 with a capacity of 15,000 L. The second tank is a double walled fibreglass fuel oil underground storage tank installed in 2006 with a capacity of 15,000 L. The third tank is a single walled fibreglass fuel oil underground storage tank installed in 1992 with a capacity of 22,640 L. The presence of these tanks is considered to represent a potentially contaminating activity on the Bell Canada property, addressed 393 Rideau Street. Based on the cross-gradient location of this property, these tanks are not considered to represent an area of potential environmental concern for the subject site. A copy of the TSSA report is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former waste disposal sites were located within the Phase I-ESA study area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was submitted to the City of Ottawa. The response from the City did not identify any activities associated with the subject site. A total of 13 activities were identified on neighbouring properties in the vicinity of the subject site. One of these listings (the autobody shop at 217 Friel Street) is not considered to be accurate, based on aerial photographs, city directories and fire insurance plans. The activities included an autobody shop, an automotive service garages, a drywall contractor, two schools, a clinic/hospital, a building material store, a printers, a canning plant, an electric sign business, a dry cleaners and Bell Canada.

The automotive service garage located approximately 150 m northwest at 105 Nelson Street (1922-1970), the dry cleaners located 75 m southwest at 391 Rideau Street (1960-1970), the Bell Canada property located 20 m southwest at 393 Rideau Street (2000-2005), and the commercial printers located 50 m south at 425 Rideau Street (circa 1998), are considered to be potentially contaminating activities. None of these properties are considered to represent an area of potential environmental concern for the subject site based on the their cross-gradient location, distance from the subject site, and the significant redevelopment of the property to the south of the subject site.

Former Industrial Sites

The report entitled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" was also reviewed. The subject site was not listed in the database of former industrial sites. Two former industrial sites were identified within the Phase I-ESA study area. Site #139 was located at 96 Nelson Street, approximately 235 m west of the subject site, and operated between 1920 and 1950 as Ottawa Iron Works. Site #159 was located at 98 Friel Street, approximately 240 m to the northwest of the subject site, and operated between 1865 and 1880 as City Tannery. Based on the significant distances from the subject site and down or cross-gradient locations, these properties are not considered to represent an area of potential environmental concern 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:

- 1922 The subject site is occupied by a residential dwelling on the northeast portion of the site, sheds and garages along the northern property boundary and a wood pile along the south and southwestern portion of the subject site. Neighbouring properties appear to be generally residential, with a school further to the north of the subject site. Some of the properties along Rideau Street are expected to be utilized for commercial purposes. Chapel Street is present to the east of the subject site and Friel Street is present further to the west of the subject site.
- 1951 Based on the scale and resolution of the photograph, no specific details can be determined regarding the subject site. Neighbouring properties in the area of the subject site appear generally consistent with the 1922 photograph, with the exception of the synagogue developed to the east of the subject site, across Chapel Street.
- 1968 The subject site appears to be occupied by the same residential dwellings, however, tree coverage obstructs the view of the residence and the southern portion of the property. The garages/sheds located on the northwestern portion of the property appear to have been removed and a few vehicles are parking in this area. The synagogue to the east has increased in size and properties along Rideau Street appear to be more commercial than previously noted, particularly to the west of the subject site.
- 1973 The subject site is vacant and utilized for parking at this time. The land to the northeast, southwest, west and northwest is now vacant and significant redevelopment of the land is underway. Further to the north and northwest new townhouses are present. Beausoleil Drive has been developed to the north of the subject site and the northern extents of Friel and Chapel Streets are now cul-de-sacs.

- The neighbouring property to the south has been redeveloped with a residential tower.
- 1984 The subject site has been developed with the present day parking garage structure. The neighbouring property to the west has been developed with the present day apartment building. The property further to the northeast has been redeveloped with a school. Properties further to the west and northwest are fully redeveloped with apartments and townhouses.
- 1993 No changes appear to have been made to the subject site. The neighbouring property to the southwest has been redeveloped with a commercial office building. No other significant changes appear to have been made to the neighbouring properties.
- 2002 (City of Ottawa Website) No significant changes appear to have been made to the subject site. Increased commercial property use is present along Rideau Street.
- 2014 (City of Ottawa Website) No significant changes have been made to the subject site. The neighbouring property to the southwest, across Friel Street has been redeveloped with a large residential building. The school to the northeast has expanded. No other significant changes appear to have been made to the neighbouring properties.

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

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic map depicts the subject site in a residential area with schools present to the north of the subject site. The subject is located in an area with an elevation between 60 and 70 m above sea level, with a slight slope down towards the north, towards the Rideau River. According to the map, the nearest water body is the Rideau River, the closest point of which is located approximately 550 m to the northeast of the subject site. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” Mapping shows the subject site as situated in an area of limestone plains.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and shale of the Verulam Formation. The site is located in an area of alluvial sediment deposits of sand and silt, with a drift thickness of 5 to 15 m.

Water Well Records

A search request was submitted on May 2, 2017, to the MOECC’s well records office for all drilled well records within 250 m of the subject site. The search identified 11 records responsive to our request. One of the records was for monitoring wells in the Town of Smiths Falls, which is not in the Phase I-ESA study area. The remaining records are for nine single monitoring wells and one monitoring well cluster. The monitoring wells are located further to the east, south and southwest of the subject site. No drinking water well records were identified within the Phase I-ESA study area.

Based on the availability of municipal water services in the area of the subject site, no domestic drinking water wells are considered to be in use in the Phase I-ESA study area.

Water Bodies and Areas of Natural Significance

The closest body of water is the Rideau River, located approximately 550 m northeast of the subject property. There are no areas of natural significance within the Phase I-ESA study area.

Geotechnical Investigation

A geotechnical investigation was carried out concurrently with the Phase I-ESA. The geotechnical investigation included drilling two boreholes in the lower level of the garage. The boreholes were drilled to a maximum depth of 5.79 m below ground surface. The site soils consist of asphaltic concrete over approximately 1.6 m of crushed stone and sand fill, overlying native silty clay. BH1 was placed adjacent to the former generator room and BH2 was placed in the southeast corner of the garage. No evidence of deleterious fill material or contamination was observed in either borehole.

5.0 INTERVIEWS

Property Owners

Mr. Amin Amin, was on-site at the time of the site visit and provided access to the ground floor of the residential apartment building at 201 Friel Street and access to the garage on the subject site portion of 201 Friel Street. Mr. Amin pointed out the location of the current standby generator room and the former generator room. Mr. Amin indicated there have never been any issues with regard to diesel spills, leaking or other maintenance issues regarding either the former or current system. Mr. Amin was unaware of any environmental concerns associated with the subject site or neighbouring properties.

Mr. Amin also provided access to the current standby generator room, which is in a dedicated structure, located immediately to the west of the subject site. No evidence of spills or leaks was observed on the interior or exterior of the structure.

Mr. Barron Meyerhoffer, with Ottawa Community Housing, was available via email to respond to requests for information regarding the property. Mr. Meyerhoffer indicated that the property addressed 201 Friel Street was purpose built for public housing, and included the single storey underground parking structure. Mr. Meyerhoffer provided a copy of the designated substance survey report prepared for 201 Friel Street. Mr. Meyerhoffer indicated that he is unaware of any environmental concerns associated with the subject site or neighbouring properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A visit to the subject property was conducted by Sean Moggridge from the Environmental Department of Paterson Group, on May 16, 2017 at 1:00 PM. Weather conditions at the time of the site visit were 15 °C and sunny. In addition to the site, the uses of neighbouring properties were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject property is occupied by a two level parking structure with one underground level and one level approximately at grade. The structure is concrete and is separated from the residential apartment tower at 201 Friel Street by a ramp and walkway. The parking structure consisted of a concrete block and poured concrete structure.

At the time of the site visit, the garage was condemned and slated for demolition. Supplemental support of the upper level was provided by an array of jackposts in the lower level. Piles of brick and some building materials were observed in the stored in lower level.

Site Features

The parking structure occupied the entire subject site, with the exception of small grassed and landscaped areas on the east side of the garage and to the north of the northwest corner of the garage. The site is generally flat. The area of the subject site slopes down from Rideau Street towards the north, and the land to the north of the subject site gently slopes down towards the north. A short retaining wall (approximately 1 m in height) is present to the south of the subject site, separating the neighbouring property's drive lane from the subject property. Site drainage is considered to be primarily sheet flow to on-site catch basins. No stressed vegetation or unknown substances were observed at the subject site.

Patched holes (evidence of vent/fill lines) were noted on the western wall of the garage, at the former generator room. No staining was observed around the exterior of the former generator room. The former generator room contained a concrete lip, considered to formerly house an interior aboveground storage tank (AST) and an elevated concrete pad, considered to be the former location of the

diesel generator. The concrete floor in the former generator room appeared to be in good condition with very little staining. No concerns were identified with regard to the former use of the former standby diesel generator system at the subject property.

No concerns were identified with respect to chemical or fuel use at the subject site. No concerns were identified with respect to polychlorinated biphenyls (PCBs). No evidence of current or former railway or spur lines on the subject property was observed at the time of the site inspection. The above-noted site features are shown on Drawing PE4033-1 – Site Plan.

Potentially Hazardous Building Materials

Prior to demolition of the garage structure, the designated substance survey for the subject property should be reviewed and appropriate measures be taken in order to protect workers.

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:

- East – Chapel Street, followed by a construction site;
- South – Residential apartment building;
- West – 201 Friel Street Community Housing residential apartment building, followed by Friel Street;
- North – Beausoleil Drive, followed by York Street public School.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. Property use in the area of the subject site is a mix of commercial, residential and institutional use. No potentially contaminating activities were identified with respect to the use of the properties within the Phase I-ESA study area. Current land use within the Phase I-ESA study area is illustrated on Drawing PE4033-2 – Surrounding Land Use Plan in the Figures section of this report.

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.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photos, FIPs, etc.
Since at least 1891 to 1976	Various	Single family residential dwelling (143 Chapel Street)	Residential	No concerns identified.
1976 to Current	Ottawa Community Housing	Parking for residential apartments, part of a larger lot addressed 201 Friel Street (Public housing)	Residential	No concerns identified.

Potentially Contaminating Activities

No Potentially Contaminating Activities were identified at the Phase I property. A total of 17 Potentially Contaminating Activities (PCAs) outside of the subject property but within the Phase I study area are shown on Drawing PE4033-2 - Surrounding Land Use Plan, however, these PCAs do not pose a concern to the subject site based on their distance and down- or cross-gradient location from the Phase I property. The above noted PCAs are presented in Table 3 below.

Table 3 Potentially Contaminating Activities					
Potentially Contaminating Activity (PCA)	Location of PCA with respect to Phase I Property	Nature of Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
106, 110-116 Cobourg Street	170 m east	Bus garage: Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
96 Nelson Street	235 m west	Ottawa Iron Works: Item 34, Metal Fabrication	Off-site	Metals	Soil
105 Nelson Street	150 m northwest	Automotive service garage: Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
98 Friel Street	240 m northwest	City Tannery: Item 53, Tannery	Off-site	VOCs	Soil, Groundwater
329/333 Rideau Street	230 m southwest	Retail fuel outlet: Item 28, Gasoline and Associated Products Storage in Fixed Tanks	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
351-357 Rideau Street	170 m southwest	Retail fuel outlet and automotive service garage: Item 28, Gasoline and Associated Products Storage in Fixed Tanks; Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems.	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
375 Rideau Street	160 m southwest	Dry Cleaner: Item 37, Operation of Dry Cleaning Equipment	Off-site	VOCs	Soil, Groundwater
391 Rideau Street	100 m southwest	Dry Cleaner: Item 37, Operation of Dry Cleaning Equipment	Off-site	VOCs	Soil, Groundwater
393 Rideau Street	20 m southwest	Bell Canada Facility: Item 28, Gasoline and Associated Products Storage in Fixed Tanks.	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater

Table 3 (continued)					
Potentially Contaminating Activities					
Potentially Contaminating Activity (PCA)	Location of PCA with respect to Phase I Property	Nature of Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
400-404 Rideau Street	115 m southwest	Commercial autobody shop and automotive service garage: Item 10, Commercial Autobody Shops; Item 52, Storage, Off-site maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems.	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
425 Rideau Street	50 m south	Commercial printing facility - Other activity	Off-site	VOCs	Soil, Groundwater
430-432 Rideau Street	105 m south	Commercial printing facility - Other activity	Off-site	VOCs	Soil, Groundwater
450 Rideau Street	110 m south	Retail fuel outlet: Item 28, Gasoline and Associated Products Storage in Fixed Tanks	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
478½ Rideau Street	160 m southeast	Retail fuel outlet: Item 28, Gasoline and Associated Products Storage in Fixed Tanks	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
481 Rideau Street	140 m southeast	Retail fuel outlet and automotive service garage: Item 28, Gasoline and Associated Products Storage in Fixed Tanks; Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems.	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
490 Rideau Street	200 m southeast	Retail fuel outlet: Item 28, Gasoline and Associated Products Storage in Fixed Tanks	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater
497 Rideau Street	190 m southeast	Dry Cleaner: Item 37, Operation of Dry Cleaning Equipment	Off-site	BTEX, PHCs F1-F4	Soil, Groundwater

As previously noted, the above noted PCAs do not pose a concern to the subject site based on their distance and down/cross gradient location from the Phase I property.

Areas of Potential Environmental Concern (APEC)

As discussed above, there are no PCAs that are considered to have the potential to generate areas of potential environmental concern on the subject site.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified, since no APECs were on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the geological mapping, overburden thickness at the subject site ranges between 5 to 15 m, consisting of silt and sand. Bedrock at the subject site is considered to be interbedded limestone and shale of the Verulam Formation. Hydrogeological conditions are considered to mimic the topographic setting, as a result, groundwater is expected to flow to the north.

The geotechnical investigation identified the upper stratum of overburden to be stiff silty clay. Bedrock was not encountered in the geotechnical investigation.

Contaminants of Potential Concern

As per Section 7.1 of this report, no CPCs were identified on the subject site.

Existing Buildings and Structures

The subject building is occupied by a condemned two level parking structure that formerly served the residential apartment building at 201 Friel Street. The garage structure building was constructed circa 1976. No other structures or buildings are present on the subject property.

Water Bodies

The closest body of water to the subject site is the Rideau River, located approximately 550 m northeast of the subject site.

Areas of Natural Significance

There are no areas of natural significance within the 250 m Phase I-ESA study area.

Drinking Water Wells

No drinking water wells were identified within the Phase I-ESA study area.

Neighbouring Land Use

Neighbouring land use in the Phase I-ESA study area is commercial, institutional and residential. No remaining properties in the vicinity of the subject site are associated with PCAs, with the exception of the Bell Canada facility with three underground storage tanks. Neighbouring land use is shown on Drawing PE4033-2 - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there were no existing Potentially Contaminating Activities or Areas of Potential Environmental Concern identified at the subject site. Potentially Contaminating Activities identified within the Phase I ESA study area 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 no APECs on the subject site, and that the off-site PCAs identified within the Phase I study area do not constitute APECs with respect to the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

A Phase I – Environmental Site Assessment was carried out for part of the property addressed 201 Friel Street, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property was first developed prior to 1891 with a residential dwelling. At that time the property was addressed 134 Chapel Street. The residential dwelling was removed circa 1965 and the present-day parking structure was completed by 1976. No environmental concerns were identified with respect to the historical use of the subject site.

The area of the subject site has been developed since before 1900. Many properties in the area have undergone redevelopment with new residential or commercial buildings since that time. A total of seventeen potentially contaminating activities were identified for properties within the Phase I-ESA study area. None of these potentially contaminating activities were considered to represent an area of potential environmental concern for the subject site.

Following the historical review a site visit was conducted. The site is currently occupied by a two level concrete parking structure, with one underground level and one aboveground level, for the residential apartment building at 201 Friel Street. Neighbouring property use is generally commercial, institutional and residential. No additional potentially contaminating activities were identified during the site visit.

Conclusion

Based on the results of this Phase I - Environmental Site Assessment, it is our opinion that **a Phase II - Environmental Site Assessment is not 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 Ottawa Community Housing Corporation. Permission and notification from Ottawa Community Housing Corporation and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Sean Moggridge, B.Eng.



Mark S. D'Arcy, P.Eng.



Report Distribution:

- Ottawa Community Housing Corporation
- Paterson Group

10.0 REFERENCES

Federal Records

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

Provincial Records

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.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
City of Ottawa Historical Land Use Inventory (HLUI) database
The City of Ottawa eMap website.

Local Information Sources

Topographic Plan prepared by Farley, Smith & Denis Surveying Ltd.
Personal Interviews.
Previous Engineering Reports

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4033-1 – SITE PLAN

DRAWING PE4033-2 – SURROUNDING LAND USE PLAN

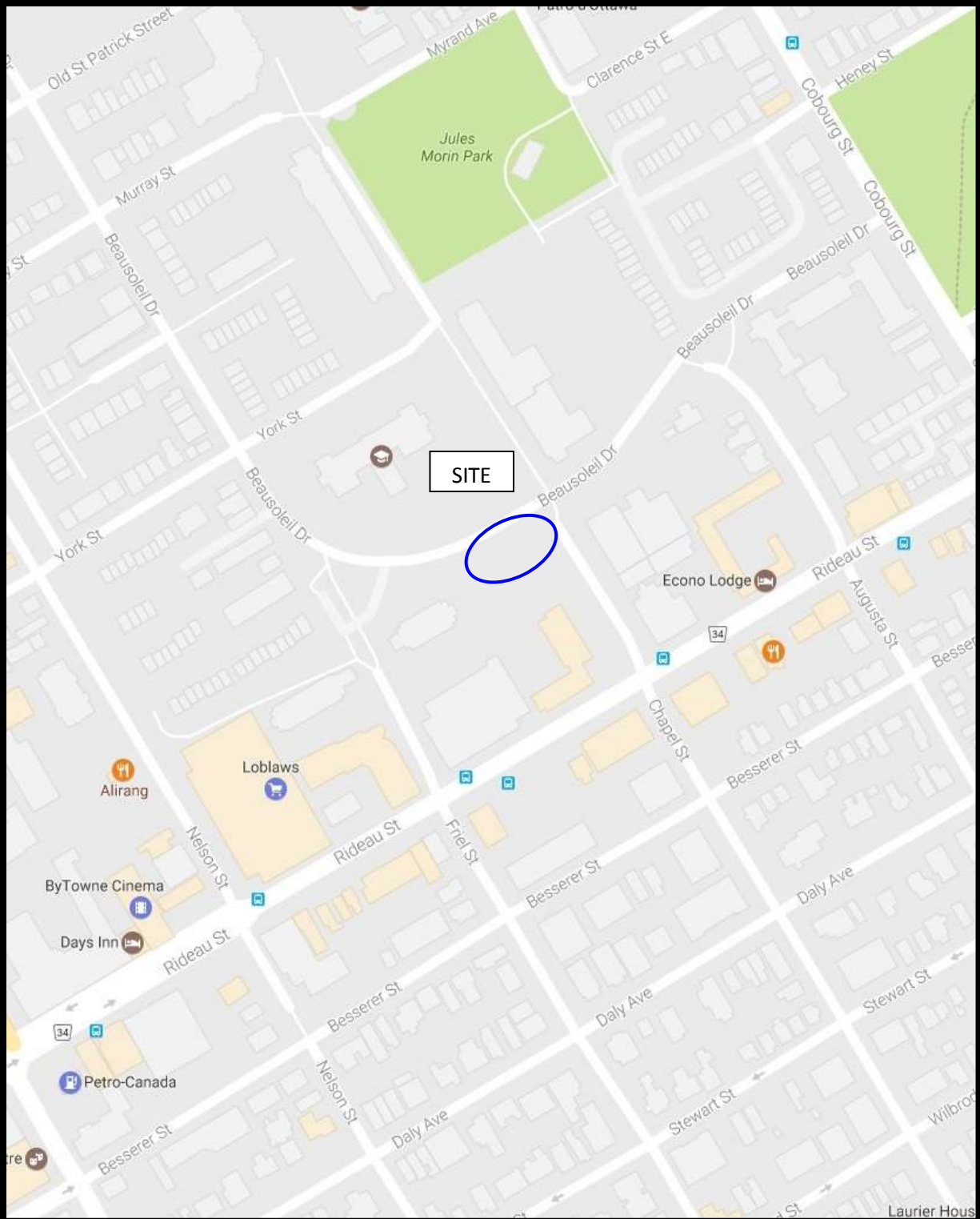


FIGURE 1
KEY PLAN

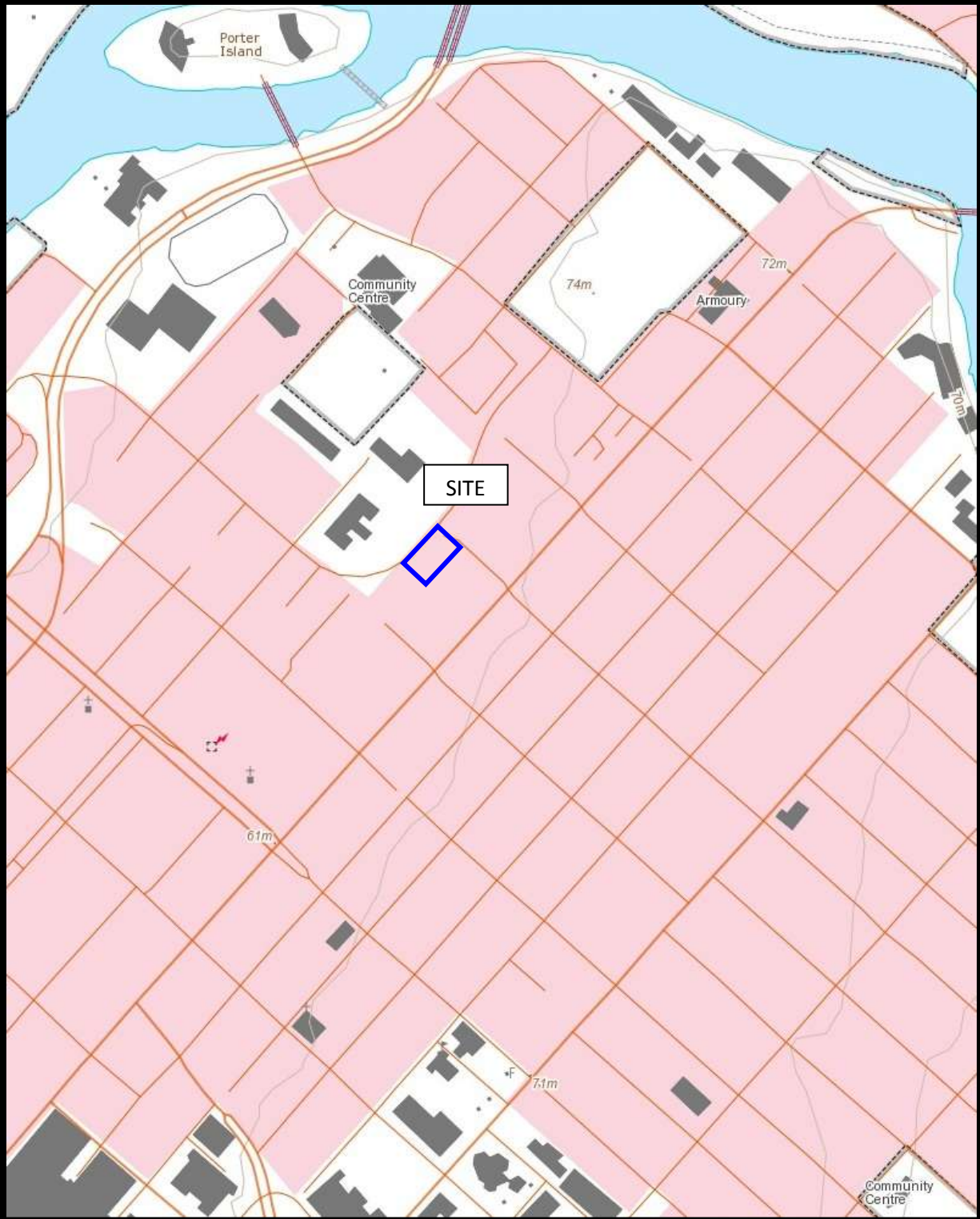
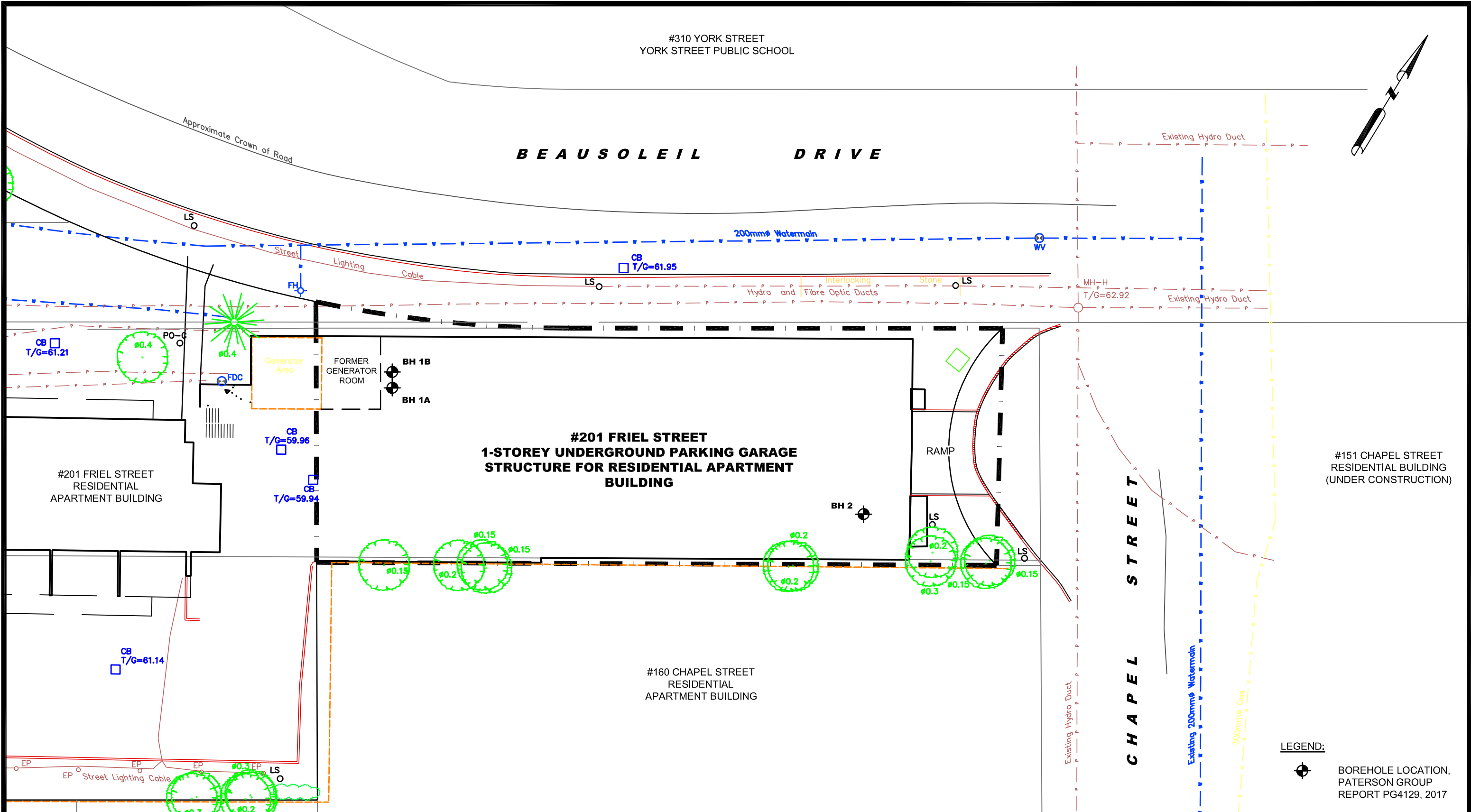
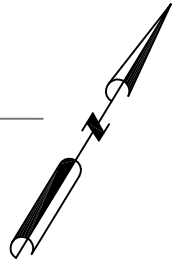


FIGURE 2
TOPOGRAPHIC MAP

#310 YORK STREET
YORK STREET PUBLIC SCHOOL

BEAUSOLEIL DRIVE



LEGEND:
 BOREHOLE LOCATION, PATERSON GROUP REPORT PG4129, 2017

patersongroup
consulting engineers

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

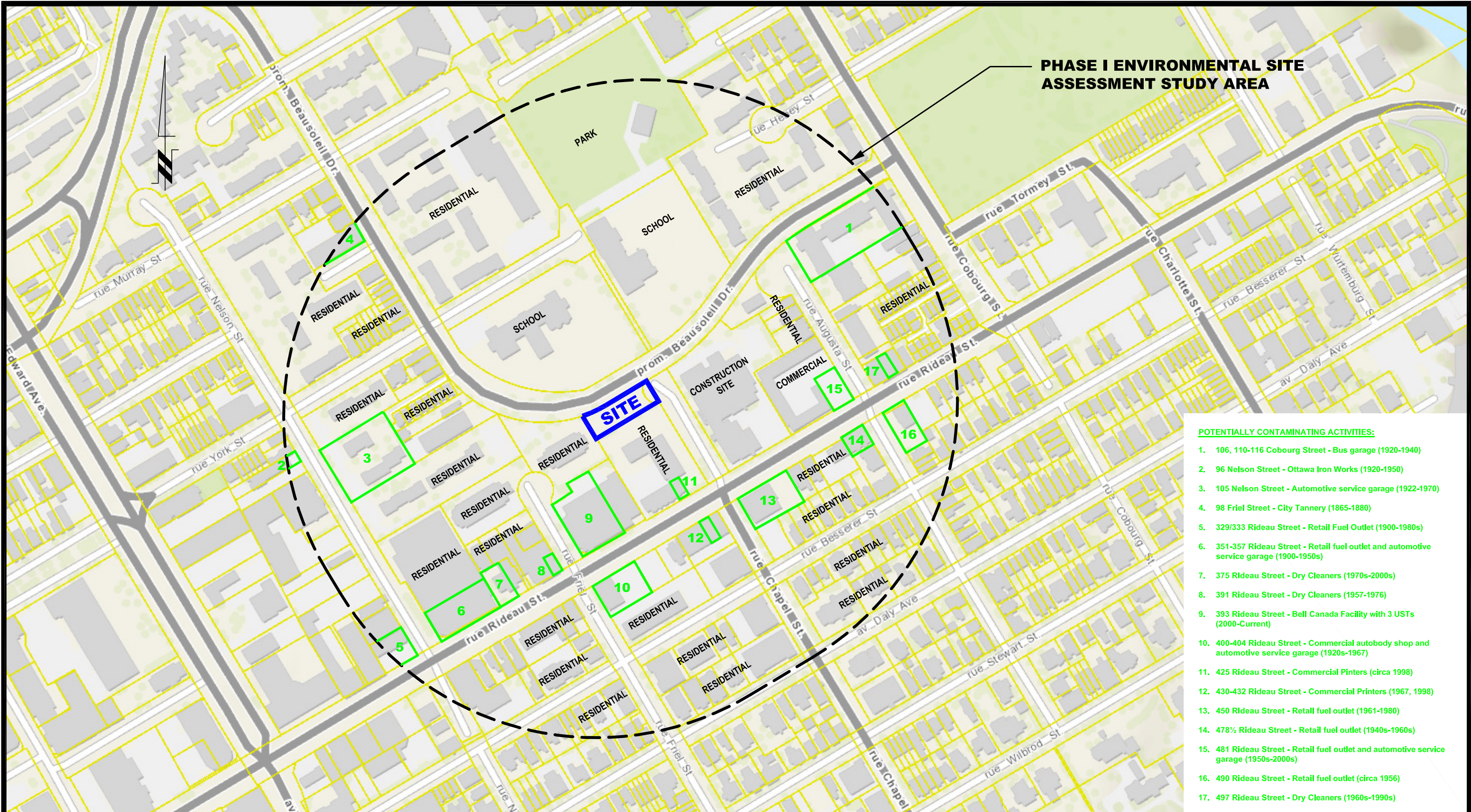
NO.	REVISIONS	DATE	INITIAL
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OTTAWA COMMUNITY HOUSING CORPORATION
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
 201 FRIEL STREET
 OTTAWA, ONTARIO

SITE PLAN

Scale:	1:500	Date:	06/2017
Drawn by:	MPG	Report No.:	PE4033-1
Checked by:	SM	Dwg. No.:	PE4033-1
Approved by:	MSD	Revision No.:	0

p:\autocad drawings\environmental\pe4033\pe4033-1 site plan.dwg



PHASE I ENVIRONMENTAL SITE ASSESSMENT STUDY AREA

- POTENTIALLY CONTAMINATING ACTIVITIES:**
1. 106, 110-116 Cobourg Street - Bus garage (1920-1940)
 2. 96 Nelson Street - Ottawa Iron Works (1920-1950)
 3. 105 Nelson Street - Automotive service garage (1922-1970)
 4. 98 Friel Street - City Tannery (1865-1880)
 5. 329/333 Rideau Street - Retail Fuel Outlet (1900-1980s)
 6. 351-357 Rideau Street - Retail fuel outlet and automotive service garage (1900-1950s)
 7. 375 Rideau Street - Dry Cleaners (1970s-2000s)
 8. 391 Rideau Street - Dry Cleaners (1957-1976)
 9. 393 Rideau Street - Bell Canada Facility with 3 USTs (2000-Current)
 10. 400-404 Rideau Street - Commercial autobody shop and automotive service garage (1920s-1967)
 11. 425 Rideau Street - Commercial Printers (circa 1998)
 12. 430-432 Rideau Street - Commercial Printers (1967, 1998)
 13. 450 Rideau Street - Retail fuel outlet (1961-1980)
 14. 478½ Rideau Street - Retail fuel outlet (1940s-1960s)
 15. 481 Rideau Street - Retail fuel outlet and automotive service garage (1950s-2000s)
 16. 490 Rideau Street - Retail fuel outlet (circa 1956)
 17. 497 Rideau Street - Dry Cleaners (1960s-1990s)

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

OTTAWA COMMUNITY HOUSING CORPORATION
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
201 FRIEL STREET

OTTAWA,
Title:

SURROUNDING LAND USE PLAN

ONTARIO

Scale:	1:3000	Date:	06/2017
Drawn by:	MPG	Report No.:	PE4033-1
Checked by:	SM	Dwg. No.:	PE4033-2
Approved by:	MSD	Revision No.:	0

APPENDIX 1

TOPOGRAPHIC PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

TOPOGRAPHIC PLAN OF

LOTS 1 AND 2 (West Friel Street), PART OF LOT 19 (North Rideau Street) PART OF LOTS 1, 2, 3 AND 4 (East Friel Street), PART OF LOTS 1, 2 AND 3 (West Chapel Street) PART OF FRIEL STREET (As Closed by By-Law 203-72, Inst. CR616467) REGISTERED PLAN 43586 CITY OF OTTAWA

FARLEY, SMITH & DENIS SURVEYING LTD. 2017

Scale 1:300

Metric Note Distances and coordinates on this plan are in metres and can be converted to feet by dividing by 0.3048.

Bearing Note Bearings are astronomic and are referred to the westerly limit of Friel Street having a bearing of N 31° 40' 30" W as shown on Plan 4R-352.

Elevation Notes 1. Elevations shown are geodetic and are referred to Geodetic Datum CGVD-1928-1378. 2. Elevations derived from Vertical Benchmark Monument No. 3466 (Index No.256) having a published elevation of 72.247m. 3. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that its relative elevation and description agrees with the information shown on this drawing.

Utility Notes 1. This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation. 2. Only visible surface utilities were located. 3. Underground utility data derived from City of Ottawa utility sheet reference: D-14-14, D-14-15, 1252, 6368, 754-P-4, F-37A/4, F-37A/6, F37a-5, 16007 and 16091. 4. Sanitary and storm sewer grades and inverts were compiled from field measurement and City of Ottawa underground plans. 5. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.

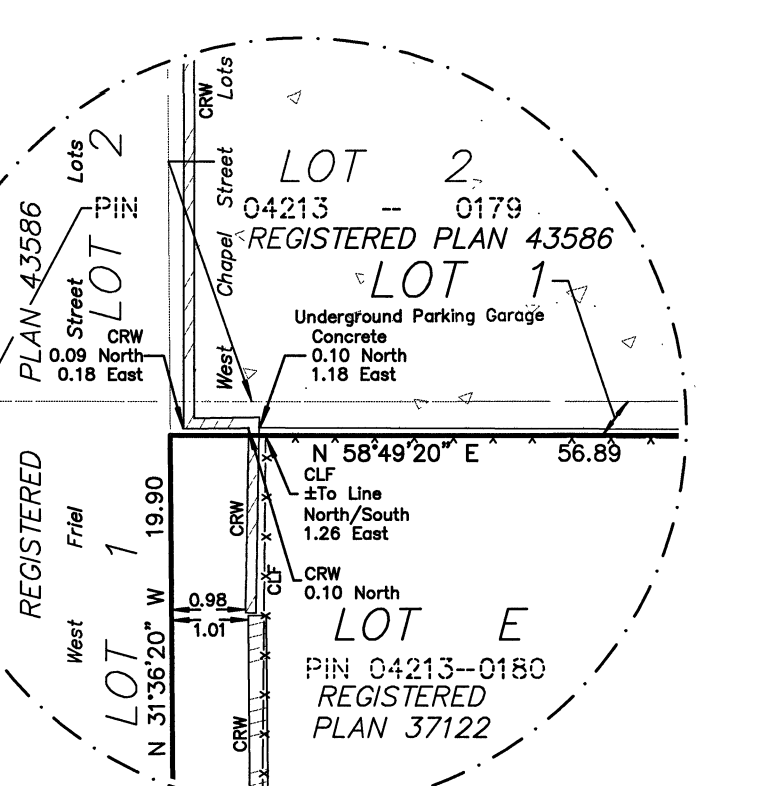
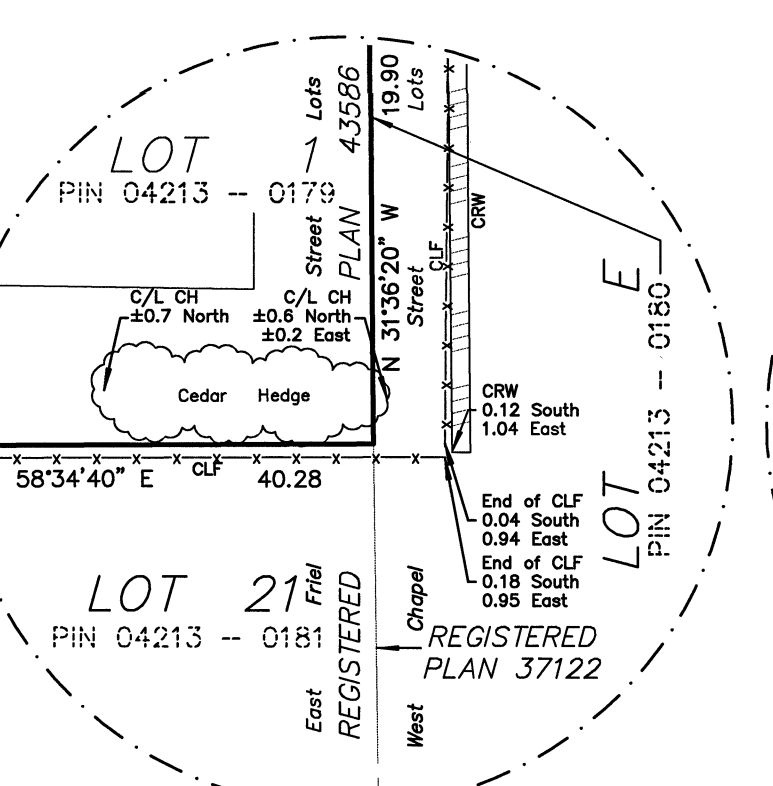
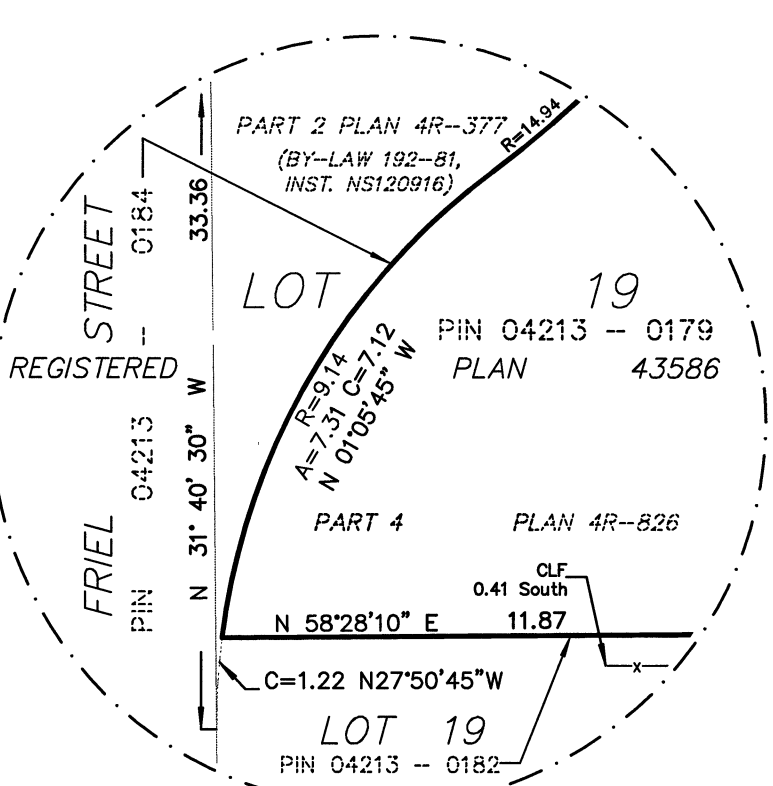
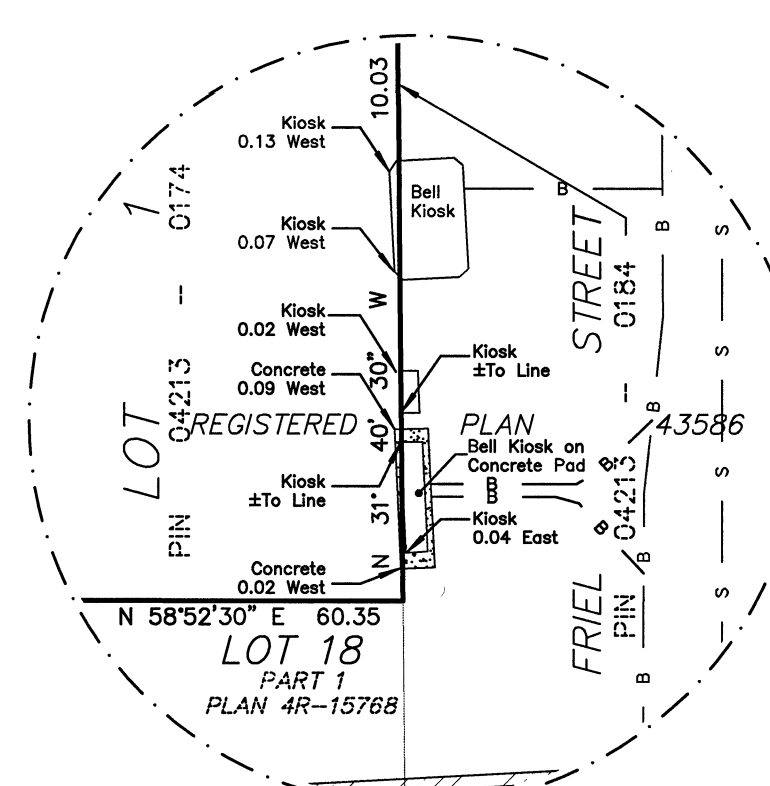
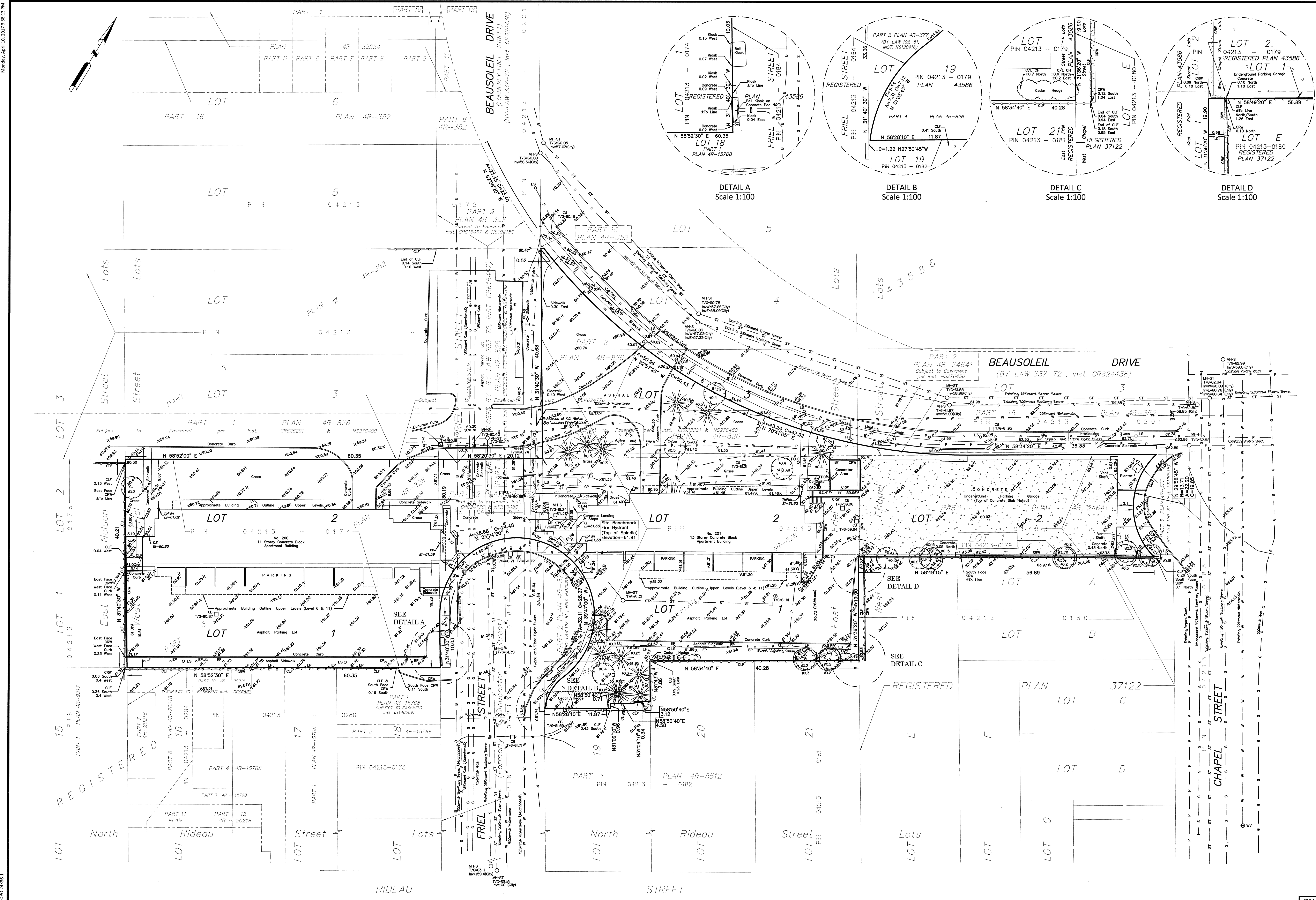
Notes & Legend table with symbols for various features like Light Standard, Chain Link Fence, Concrete Retaining Wall, etc.

TOPOGRAPHIC DATA WAS COLLECTED UNDER WINTER CONDITIONS. SNOW COVER AND ICE PRECLUDE DETERMINING LOCATION AND ELEVATION OF SOME TOPOGRAPHICAL DATA THAT IS OTHERWISE VISIBLE. WARNING: NO PERSON MAY COPY, REPRODUCE, DISTRIBUTE OR ALTER THIS PLAN IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF FARLEY, SMITH & DENIS SURVEYING LTD. © FARLEY, SMITH & DENIS SURVEYING LTD., 2017.

The fieldwork was completed on the 10th day of April, 2017. Date: Apr. 10/17. Daniel Robinson, Ontario Land Surveyor.

FARLEY, SMITH & DENIS SURVEYING LTD. ONTARIO LAND SURVEYORS CANADA LAND SURVEYORS

190 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J5 TEL. (613) 727-8226 FAX. (613) 727-1826





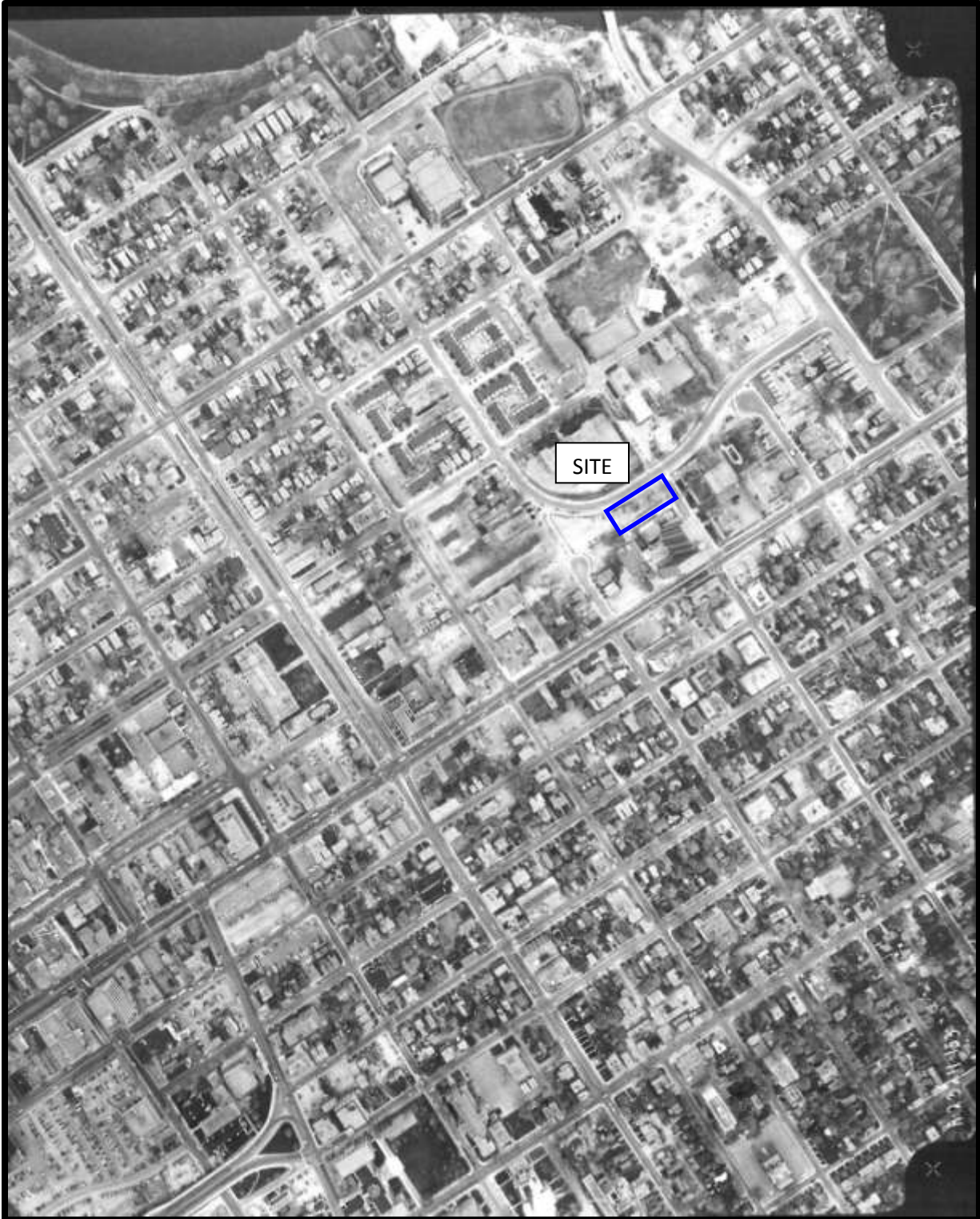
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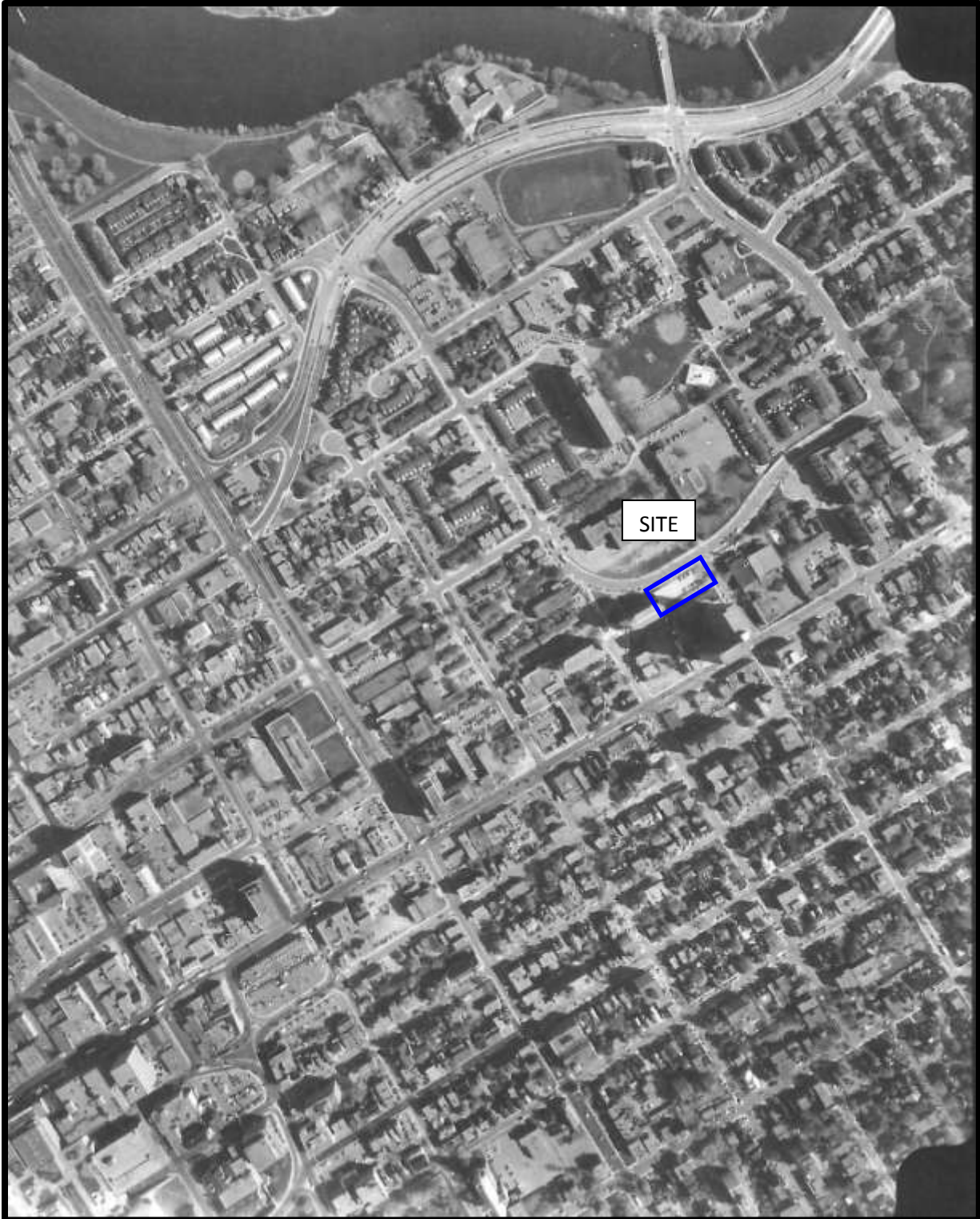
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1951



AERIAL PHOTOGRAPH
1968



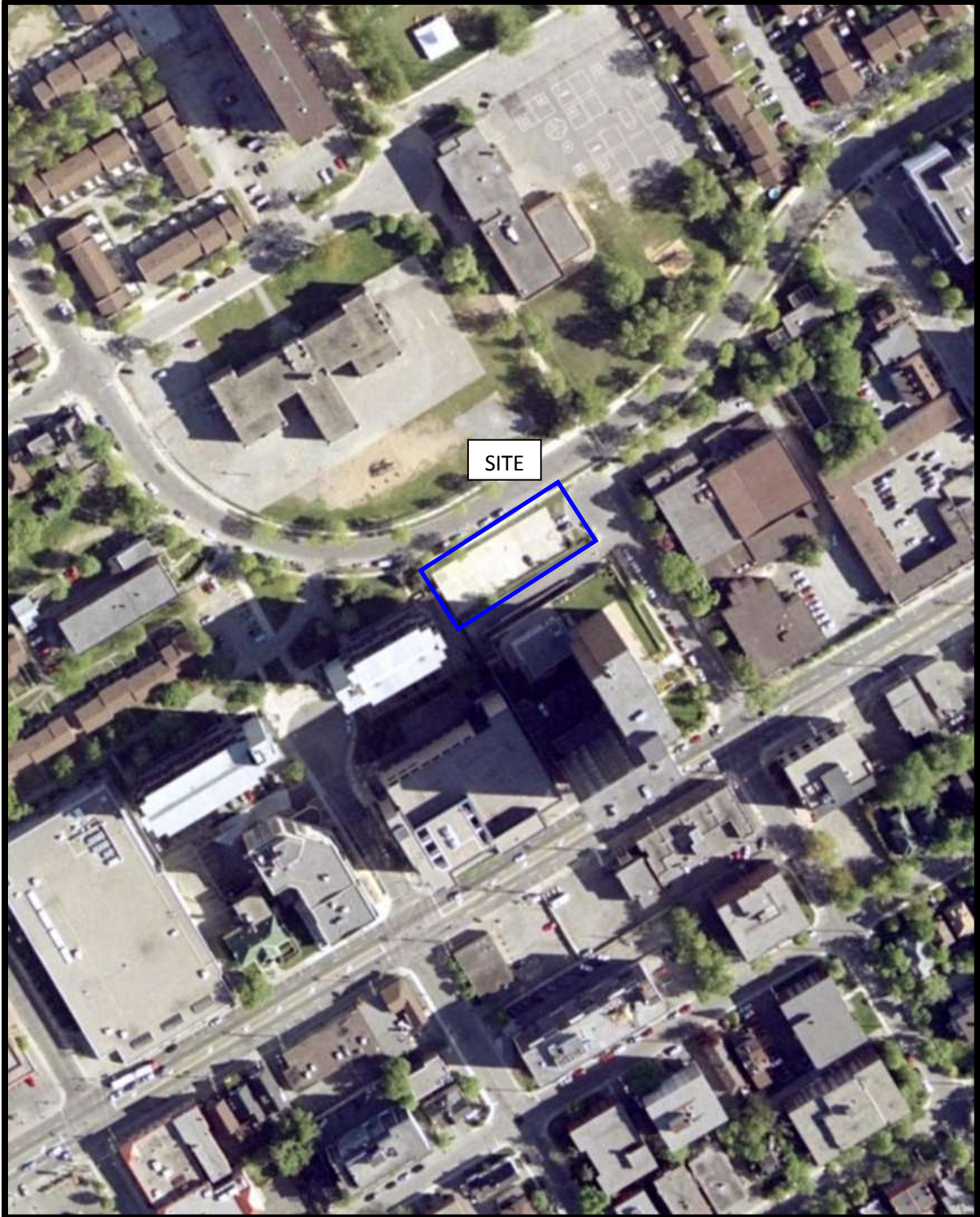
AERIAL PHOTOGRAPH
1973



AERIAL PHOTOGRAPH
1984



AERIAL PHOTOGRAPH
1993



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2014

Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 1: View of former generator room. The concrete slab and berm are evidence of the former generator and tank locations. Concrete was observed to be in good condition with minimal staining.



Photograph 2: View of interior of lower portion of the parking structure, facing east from the western portion of the structure. Some debris and bricks are present in the foreground.

Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 3: View of the interior of the lower level of the parking structure. Facing west from the eastern end of the structure.



Photograph 4: View of upper level of the parking structure, facing south from the north side of the property.

Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 5: View of neighbouring property to the west, across Chapel Street. The property is undergoing redevelopment.



Photograph 6: View of neighbouring properties to the northeast, occupied by school buildings.

Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 7: View of neighbouring properties to the west, from the northwest corner of the property. Neighbouring properties are occupied by residential apartments and townhomes further to the northwest.



Photograph 8: View of neighbouring property to the south, occupied by a residential apartment tower with an underground parking structure.

APPENDIX 2

MOECC FREEDOM OF INFORMATION RESPONSE

CITY OF OTTAWA HLUI RESPONSE

TSSA REPORT FS 61829

MOECC WELL RECORDS

Ministry of the Environment
and Climate Change

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 et de
l'Action en matière de changement
climatique

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

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



June 9, 2017

Sean Moggridge
Paterson Group Inc
154 Colonnade Rd
Ottawa, ON K2E 7J5

Dear Sean Moggridge:

**RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2017-03327, Your Reference #: PE4033**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 201 Friel St, 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 4 pages @ \$0.20/page	\$0.80
• Delivery	3.00
• Total	\$ 33.80
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 3.80

The Environmental Approvals Branch has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$60.00. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the files retrieved from the Records Centre, the time for answering your request will be extended for an additional 30 days.

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 Michael Kolaric at (416) 327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read "Janet Dadufalza".

Janet Dadufalza
FOI Manager

Attachments



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
AIR
NUMBER 7654-5YMRE2

Ottawa Community Housing Corporation
2197 Riverside Drive
Ottawa, Ontario
K1H 1A9

Site Location: 201 Friel Street
Ottawa City,

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

- one (1) standby diesel generator set, having a rating of 125 kilowatts, to provide power for the apartment building during emergency situations;

all in accordance with the Application for Approval (Air) dated February 16, 2004 and all supporting documentation and information, signed by Barron Meyerhoffer (Director of Technical Services), Ottawa Community Housing Corporation.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Act" means the *Environmental Protection Act*;
- (2) "Certificate" means this Certificate of Approval issued in accordance with Section 9 of the Act;
- (3) "Equipment" means the diesel generator set described in the Owner's application, this Certificate and in the supporting documentation submitted with the application, to the extent approved by this Certificate;
- (4) "Manual" means a document or a set of documents that provide written instructions to staff of the Owner;
- (5) "Ministry" means the Ontario Ministry of the Environment;
- (6) "Owner" means Ottawa Community Housing Corporation, and includes its successors and assignees; and
- (7) "Publication NPC-205" means Ministry Publication NPC-205, Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban), October, 1995.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

GENERAL

1. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Equipment in accordance with the description given in this Certificate, application for approval of the Equipment and the submitted supporting documents and plans and specifications as listed in this Certificate.
2. Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

PERFORMANCE

3. The Owner shall ensure that the noise emissions from the Equipment comply with the limits set out in Publication NPC-205.

OPERATION AND MAINTENANCE

4. The Owner shall restrict the periodic testing of the Equipment to the daytime hours from 7:00 am to 7:00 pm.
5. The Owner shall ensure that the Equipment is properly operated and maintained at all times. The Owner shall:
 - (1) prepare, not later than three (3) months after the date of this Certificate or the date of commissioning of the Equipment, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:
 - (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
 - (b) emergency procedures;
 - (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;
 - (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;
 - (2) implement the recommendations of the Manual; and
 - (3) retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment, and make these records available for review by staff of the Ministry upon request.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition Nos. 1 and 2 are imposed to ensure that the Equipment is built and operated in the manner in which it was described for review and upon which approval was granted. These conditions are also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition No. 3 is included to provide the minimum performance requirement considered necessary to

prevent an adverse effect resulting from the operation of the Equipment.

3. Condition No. 4 is included to ensure that the proposed operation, excluding emergency situations, is not extended beyond specific daytime hours to prevent an adverse effect resulting from the operation of the Equipment.
4. Condition No. 5 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, the regulations and this Certificate. In addition the Owner is required to keep records and provide information to staff of the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and,
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of Environment and Energy
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 6th day of May, 2004



Aziz Ahmed, P.Eng.
Director
Section 9, *Environmental Protection Act*

AA/

c: District Manager, MOE Ottawa
Judith Mitchell, Morrison Herschfield

**Pages 5 to / à 8
are duplicates
sont des duplicatas**

June 20, 2017

Sean Moggridge
Paterson Group Inc.
154 Colonnade Road South
Ottawa, ON
K2E 7J5

Sent via email [smoggridge@patersongroup.ca]

Dear Mr. Moggridge,

**Re: Information Request
201 Friel Street, Ottawa, Ontario (“Subject Property”)**

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

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 13 activities associated with properties located within 50m of the Subject Property: Activity Numbers 13787, 3865, 4642, 6425, 10229, 2626, 7442, 13290, 11748, 2665, 1850, 13726, and 11902.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Planning, Infrastructure and Economic
Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext.14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et
du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Télééc: (613) 560-6006
www.ottawa.ca

Please note that Activity Numbers 11902, 6425, 4642, and 7442 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. 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 Number 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 and Climate Change for additional information.

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

Sincerely,



Seana Turkington

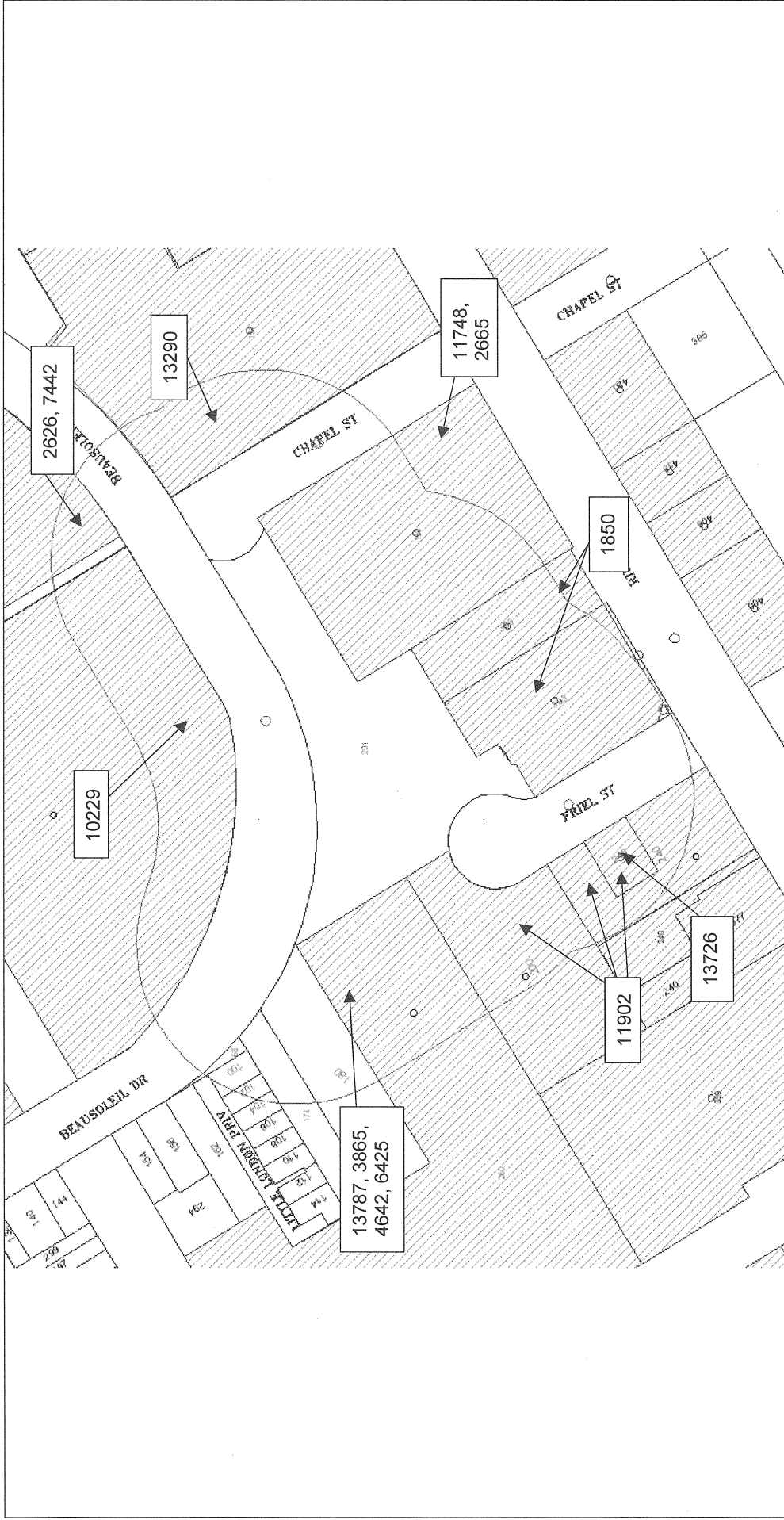
Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department


MB/ ST

Attach: 17

cc: File no. D06-03-17-0076



Overview
 ID# = Activity Identification Number

 = Subject Site

201 Friel Street
 Ottawa, ON
 File # D06-03-17-0076
 Seana Turkington



Scale 1: n/a



CITY OF OTTAWA
HLUI ID: __679BVV

Report: RPTC_OT_DEV0122
Run On: 13 Jun 2017 at: 13:36:59

AREA (Square Metres): 7558.191

Study Year
2005

PIN
042130186

Multi-NAIC
N

Multiple Activities
N

Activity ID: 13290 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130186

Name: SUBURBAN DRYWALL

Address: 151 CHAPEL STREET,

Facility Type: Exterior Close In Work

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS SIC
238310 0

Company Name
SUBURBAN DRYWALL

Year of Operation
c. 2005



CITY OF OTTAWA

HLUI ID: __679G2L

AREA (Square Metres): 10243.411

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:36:17

Study Year
1998

PIN
042130110

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 2626 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130110

Name: CECLF - SAINTE-ANNE

Address: 340 YORK STREET, OTTAWA

Facility Type: Elementary and Secondary Education

Comments 1: SAINTE-ANNE

Comments 2:

Generator Number: ON1285729

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS SIC

611110 0

Company Name

Year of Operation

CECLF - SAINTE-ANNE

c. 2001

CECLF - SAINTE-ANNE

c. 2000

CECLF - SAINTE-ANNE

c. 2005



CITY OF OTTAWA

HLUI ID: __67904U

AREA (Square Metres): 11589.085

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:34:22

Study Year
2005

PIN
042130111

Multi-NAIC
N

Multiple Activities
N

Activity ID: 10229 **Multiple PINS:** Y

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 042130111

Name: OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL

Address: 310 YORK STREET, OTTAWA

Facility Type: Elementary and Secondary Education

Comments 1: York Street PS

Comments 2:

Generator Number: ON2842691

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS SIC

611110 0

Company Name

Year of Operation

OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL c. 2005

OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL c. 2003



CITY OF OTTAWA

HLUI ID: __670HEI

AREA (Square Metres): 4883.811

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:35:26

Study Year
1998

PIN
042130180

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11748 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130180

Name: RIDEAU FRIEL CLINIC

Address: 421 RIDEAU STREET, OTTAWA

Facility Type: Hospitals

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
622111	0

Company Name

RIDEAU FRIEL CLINIC

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679G2L

AREA (Square Metres): 10243.411

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:36:17

Study Year
1998

PIN
042130110

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 7442

Multiple PINS: N

PIN Certainty: 2

Previous Activity ID(s) : 1812

Related PINS: 042130110

Name: JOSEPH DOLAN AND SONS LIMITED

Address: 135 CHAPEL STREET, OTTAWA

Facility Type: Lumber and Building Materials, Wholesale

Comments 1: Coal and Wood Large Property 3/4 of a block in depth The yard runs behind #137-143 Chapel St. It also runs behind #134-135 Augusta and 461-473 Rideau St.

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: FIP1901-12-18,Vol2; FIP1912-12-18,Vol1; FIP1922-12-18,Vol1, M.1900, M.1910, M.1920, M.1922, M.1930, M.1940, M.1950

HL References 2:

HL References 3:

NAICS	SIC
416320	563
483116	453
324121	369
488210	453
444120	563
416340	563
482114	453
416310	563
444110	563
482112	453
482113	453
444190	563

Company Name

Joseph Dolan and Sons Ltd.

Year of Operation

c. 1920-1930



CITY OF OTTAWA

HLUI ID: __679G3C

AREA (Square Metres): 11334.127

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:45:07

Study Year
1998

PIN
042130165

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 13787

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s) : 4308

Related PINS: 042130165

Name: UNNAMED CANNING PLANT

Address: 103 NELSON STREET, OTTAWA

Facility Type: Fruit and Vegetable Industries

Comments 1: FIP1912 - residence FIP1922 - vacant lot M. 1948 - lists as garage for residence

Comments 2: unit a

Generator Number:

Storage Tanks:

HL References 1: M.1922, M.1948, M.1956; FIP1901-14-28,vol2; FIP1912-14-28,vol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

NAICS	SIC
311410	103
311211	103
312110	103
311990	103
311420	103

Company Name

Unnamed Canning Plant

Year of Operation

c. 1956



CITY OF OTTAWA

HLUI ID: __679G3C

AREA (Square Metres): 11334.127

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:45:07

Study Year
1998

PIN
042130165

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 4642 Multiple PINS: N
PIN Certainty: 2 Previous Activity ID(s) : 798, 1804
Related PINS: 042130165

Name: DUTCH AIRCRAFT METAL WORKS
Address: 105 NELSON STREET, OTTAWA
Facility Type: Plumbing, Heating and Air Conditioning, Mechanical Work

Comments 1:
Comments 2:

Generator Number:

Storage Tanks:

HL References 1: S.1958, S.1961, S.1964-65, M.1900, M.1910, M.1920, M.1921, M.1922, M.1923, M.1930, M.1940, M.1950, M.1958, M.1960, M.1961, M.1964, M.1970, M.1980; FIP1901-14-28,Vol2; FIP1912-14-28,Vol1; FIP1922-14-28,Vol1

HL References 2:

HL References 3:

NAICS	SIC
238220	424
811112	635
336320	321
336410	321
811119	635
811121	635

Company Name

Year of Operation

Unnamed Garage	c. 1922
Dutch Aircraft Metal Works	c. 1960-1961
Samuel Lambert and Company	c. 1950



CITY OF OTTAWA
 HLUI ID: __679G3C
 AREA (Square Metres): 11334.127

Report: RPTC_OT_DEV0122
 Run On: 13 Jun 2017 at: 13:45:07

Study Year 1998	PIN 042130165	Multi-NAIC Y	Multiple Activities Y
---------------------------	-------------------------	------------------------	---------------------------------

Activity ID: 6425 **Multiple PINS:** N
PIN Certainty: 2 **Previous Activity ID(s) :** 211
Related PINS: 042130165
Name: HUOT'S AUTO BODY SHOP
Address: 105 NELSON STREET, OTTAWA
Facility Type: Motor Vehicle Repair Shops
Comments 1: Wood Dealer in 1900 Residential in 1910 M. 1922 - lists residence in front & Huot's Garage at rear
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1900, M.1910, M.1920, M.1922, M.1930, M.1940, M.1948, M.1950, M.1956, M.1960, M.1970, M.1980
HL References 2:
HL References 3:

NAICS	SIC
811119	635
811121	635
811112	635

Company Name	Year of Operation
Huot's Auto Body Shop	c. 1950
Nelson St. Garage	c. 1960-1970
Pepin Body Shop	c. 1956
Huot Aime Garage	c. 1922-1948



CITY OF OTTAWA
 HLUI ID: __679FP6
 AREA (Square Metres): 1456.936

Report: RPTC_OT_DEV0122
 Run On: 13 Jun 2017 at: 13:40:14

Study Year 1998 **PIN** 042130176 **Multi-NAIC** Y **Multiple Activities** Y

Activity ID: 11902 **Multiple PINS:** Y
PIN Certainty: 2 **Previous Activity ID(s) :** 2713
Related PINS: 042130174
Name: RANGER BODY SHOP
Address: 217 FRIEL STREET, OTTAWA
Facility Type: Motor Vehicle Repair Shops
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28
HL References 2:
HL References 3:

NAICS	SIC
811119	635
811121	635
811112	635

Company Name	Year of Operation
Ranger Body Shop	c. 1956-1960



CITY OF OTTAWA

HLUI ID: __679FP6

AREA (Square Metres): 1456.936

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:40:14

Study Year
1998

PIN
042130176

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 13726 **Multiple PINS:** N
PIN Certainty: 1 **Previous Activity ID(s) :** 3218
Related PINS: 042130176
Name: VAIL-O-MAT
Address: 391 RIDEAU STREET, OTTAWA
Facility Type: Laundries and Cleaners
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1960, M.1970, M.1980
HL References 2:
HL References 3:

NAICS	SIC
812320	972
812330	972
812310	972
561740	972

Company Name	Year of Operation
Vail's Fabric Care Ltd.	c. 1970
Vail-O-Mat	c. 1960-1970



CITY OF OTTAWA
HLUI ID: __679CGC

Report: RPTC_OT_DEV0122
Run On: 13 Jun 2017 at: 13:41:31

AREA (Square Metres): 312.634

Study Year
1998

PIN
042130175

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 11902 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 2713
Related PINS: 042130174

Name: RANGER BODY SHOP
Address: 217 FRIEL STREET, OTTAWA
Facility Type: Motor Vehicle Repair Shops

Comments 1:
Comments 2:
Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

NAICS	SIC
811119	635
811121	635
811112	635

Company Name

Year of Operation

Ranger Body Shop

c. 1956-1960



CITY OF OTTAWA

HLUI ID: __679F7H

AREA (Square Metres): 2780.317

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:42:26

Study Year
1998

PIN
042130174

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 11902 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 2713
 Related PINS: 042130174

Name: RANGER BODY SHOP
 Address: 217 FRIEL STREET, OTTAWA
 Facility Type: Motor Vehicle Repair Shops

Comments 1:
 Comments 2:
 Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

NAICS	SIC
811119	635
811121	635
811112	635

Company Name

Ranger Body Shop

Year of Operation

c. 1956-1960



CITY OF OTTAWA

HLUI ID: __679B6P

AREA (Square Metres): 1198.271

Report: RPTC_OT_DEV0122

Run On: 13 Jun 2017 at: 13:38:49

Study Year
2005

PIN
042130181

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 1850 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130181

Name: BELL CANADA

Address: 393 RIDEAU STREET, OTTAWA

Facility Type: Telecommunication Carriers Industry

Comments 1:

Comments 2:

Generator Number: ON0033970

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS	SIC
517110	0
517210	0
517310	0
517410	0
515120	0
517910	0
515110	0

Company Name

Year of Operation

BELL CANADA	c. 2003
BELL CANADA	c. 2000
BELL CANADA	c. 2005
BELL CANADA	c. 2001



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel 416 734 3300
Fax 416 231 1626
Toll Free 1 877 682 8772

www.tssa.org

June 22, 2017
File No: FS 61829

Sean Moggridge
PATERSON GROUP
154 Colonnade Road South
OTTAWA ON K2E 7J5

Dear Sir:

RE: 393 Rideau Street, Ottawa, Ontario – Your File No: PE4033

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

Enclosed please find computer screen prints showing 3 active underground fuel oil tanks at the above property registered with TSSA.

After a search of our files, TSSA has no record of any further outstanding instructions, incident reports, fuel oil spills or contamination records respecting the above-mentioned property.

This is all the information the Fuels Safety Division has on this property at this time.

It should be noted that the Fuels Safety Division did not register private fuel underground/ aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also, note that the Fuels Safety Division does not register private waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released by TSSA, and the user assumes all risk in using or relying on released records.

Yours truly,



Prem Lal
Coordinator, Public Information Services



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Logged In As PLAL

Item Instance Details

Item Instance: 43540241

Item: FS FUEL OIL TANK

Item Description: Fuel Oil Tank

General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label 1

Version Label 28-JUN-2006 0:00
Date

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Active

Condition

Quantity 1

UOM Each

Start Date 28-JUN-2006

Start Time 0:00

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party

Party Name: BELL CANADA REAL ESTATE

Party Number: 59032

Account Number: 23880

Account Name BELL CANADA REAL ESTATE

Current Location

* Type

Party Name

Party Number

*Line 1 Site Number

Address 393 RIDEAU ST
OTTAWA, K1N 1H1, CA

Installed At

Installed Date 28-JUN-2006 Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number Sales Order Date

Sales Order Line

Purchase Order Number Agreement Name

Item Flags

- BOM Enabled
- IB Trackable Inventory Trackable
- Sellable Shippable

Item Views

- Merchant Customer

Descriptive Flexfields

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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Logged In As PLAL

Item Instance Details

Item Instance: 64640288
Item: FS FUEL OIL TANK
Item Description: Fuel Oil Tank

General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label AS_CREATED

Version Label 21-FEB-2014 9:42
Date

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Registered

Condition

Quantity 1

UOM Each

Start Date 21-FEB-2014

Start Time 9:42

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation
Completed

Owner

Party Type Party

Party Name: BELL CANADA

Party Number: 58394

Account Number: 23568

Account Name BELL CANADA

Current Location

* Type

Party Name

Party Number

*Line 1

Site Number

Address 393 RIDEAU ST
OTTAWA, K1N 1H1, CA

Installed At

Installed Date 21-FEB-2014

Installed Time 9:42

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Party Name

Party Number

Line 1

Site Number

Address 393 RIDEAU ST
OTTAWA, K1N 1H1, CA

Order

Sales Order Number

Sales Order Date

Sales Order Line

Purchase Order Number

Agreement Name

Item Flags

BOM Enabled

IB Trackable

Inventory Trackable

Sellable

Shippable

Item Views

Merchant

Customer

Descriptive Flexfields

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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Logged In As PLAL

Item Instance Details

Item Instance: 61732065

Item: FS FUEL OIL TANK

Item Description: Fuel Oil Tank

General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label 1

Version Label Date 02-MAR-2009 0:00

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Active

Condition

Quantity 1

UOM Each

Start Date 02-MAR-2009

Start Time 0:00

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party

Party Name: BELL CANADA

Party Number: 58394

Account Number: 23568

Account Name BELL CANADA

Current Location

* Type

Party Name

Party Number

*Line 1

Site Number

Address 393 RIDEAU ST
OTTAWA, K1N 1H1, CA

Installed At

Installed Date 02-MAR-2009

Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number

Sales Order Date

Sales Order Line

Purchase Order
Number

Agreement Name

Item Flags

BOM Enabled

IB Trackable

Inventory Trackable

Sellable

Shippable

Item Views

Merchant

Customer

**Descriptive
Flexfields**

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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Master Well Owner's and Land Owner's Information

First Name: **Rideau Regional Centre** Last Name: _____ E-mail Address: _____
 Mailing Address (Street Number/Name, RR): **P.O. Box 2000** Municipality: **SMITHS FALLS** Province: **ONTARIO** Postal Code: **K7A4T7** Telephone No. (inc. area code): **6132840123**

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): **3312 CR # 43** Township: **NORTH ELMSEY** Lot: _____ Concession: _____
 County/District/Municipality: **LANARK** City/Town/Village: **SMITHS FALLS** Province: **Ontario** Postal Code: _____
 UTM Coordinates: NAD 83 Zone: **18** Easting: **446896** Northing: **5030854** GPS Unit Make: **Magellan** Model: _____ Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
brown	topsoil		topsoil	0	0.7
grey	cobbles			0.7	1.8
brown	sand		sand fill	1.8	2.7
white/grey			sand stone bedrock	2.7	6.3

mw 9 was tagged, mw 8 has the same soil conditions and installation.

Hole Details

Depth (Metres) From	Depth (Metres) To	Diameter (Centimetres)
0	2.7	7.6
2.7	6.3	5.7

Water Use

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

Method of Construction

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

Status of Well

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

No Casing and Screen Used **Static Water Level Test**

Open Hole Yes No **3.5** Metres

Screen

Galvanized Steel Fibreglass Concrete Plastic
 Outside Diameter (Centimetres): **4.1** Slot No.: **10**

Water Details

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

Disinfected Yes No If no, provide reason: _____ Date Master Well Completed (yyyy/mm/dd): **2008/06/05**

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: **2** Please indicate Number of Cluster Well Information Log Sheets Submitted: _____
 Total Wells on this Property: **2 (total unknown)**

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From	Depth (Metres) To
3.5	plastic riser	0.3	0	3.3
3.5	plastic screen	0.3	3.3	6.3

Annular Space/Abandonment Sealing Record

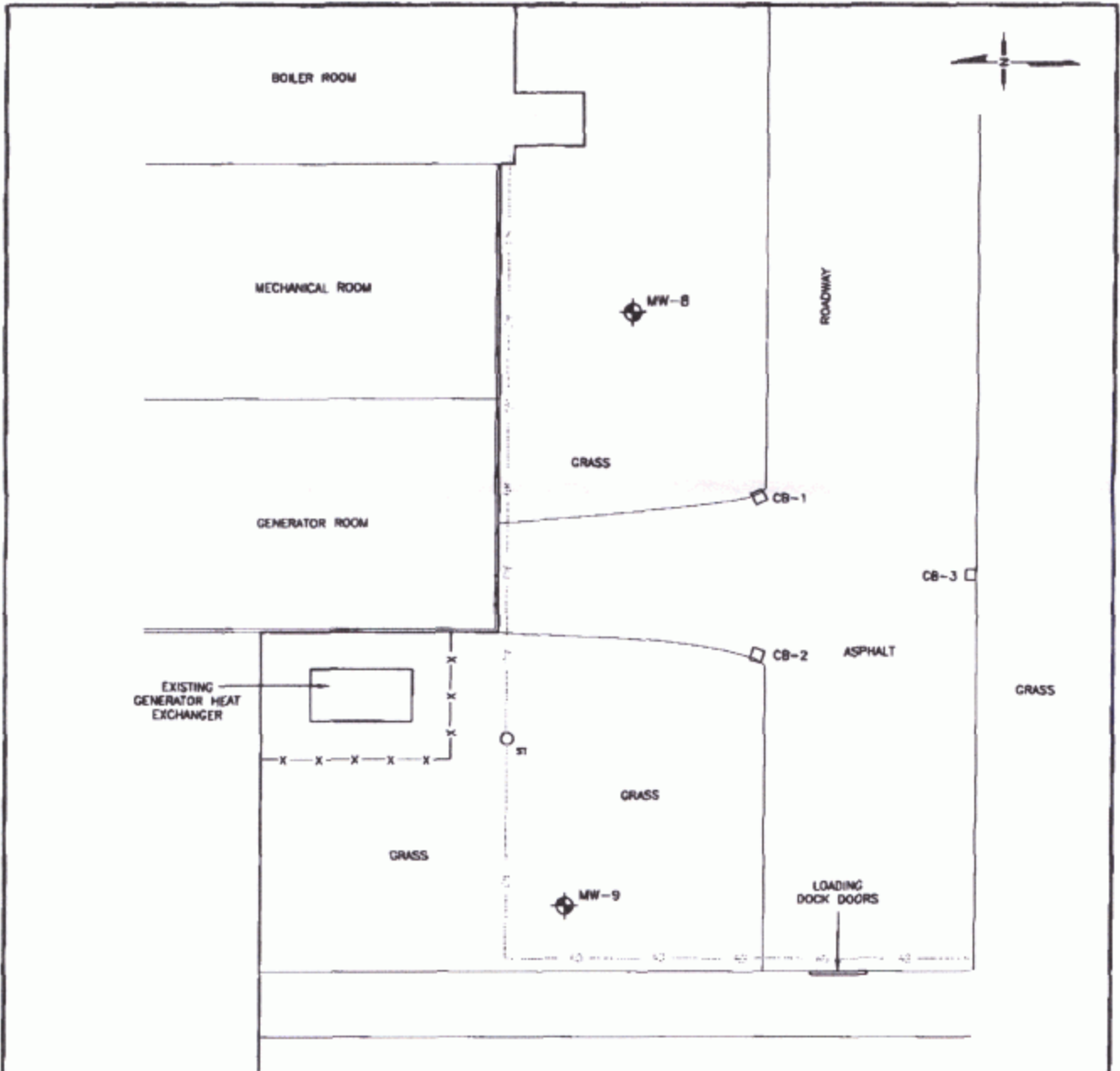
Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0	3.1	bentonite pellets	1/2 pail
3.1	6.3	filter sand	1/2 bag

Well Contractor and Well Technician Information

Business Name of Well Contractor: **OGS INC.** Well Contractor's Licence No.: **6964**
 Business Address (Street No./Name, number, RR): **5518 Appleton Side Road** Municipality: **Almonte**
 Province: **Ontario** Postal Code: **K0A1A0** Business E-mail Address: **ogsinc@bellnet.ca**
 Bus. Telephone No. (inc. area code): **6132567666** Name of Well Technician (Last Name, First Name): **Echlin, Chad**
 Well Technician's Licence No.: **3299** Signature of Technician: *Chad Echlin* Date Submitted (yyyy/mm/dd): **2008/07/04**

Ministry Use Only

Audit No.: **M 03128** Well Contractor No.: _____
 Date Received (yyyy/mm/dd): **JUL 07 2008** Date of Inspection (yyyy/mm/dd): _____
 Remarks: **(A) MAPS**

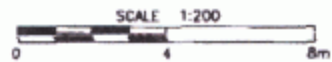


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED OR FAXED

LEGEND

- X - X - X - X -
-
- CB □
- ST ○
- ◆

EXISTING FENCE
 ABOVE GROUND NATURAL GAS LINE
 CATCH BASIN
 GAS LINE SUPPORT
 MONITORING WELL (2008)

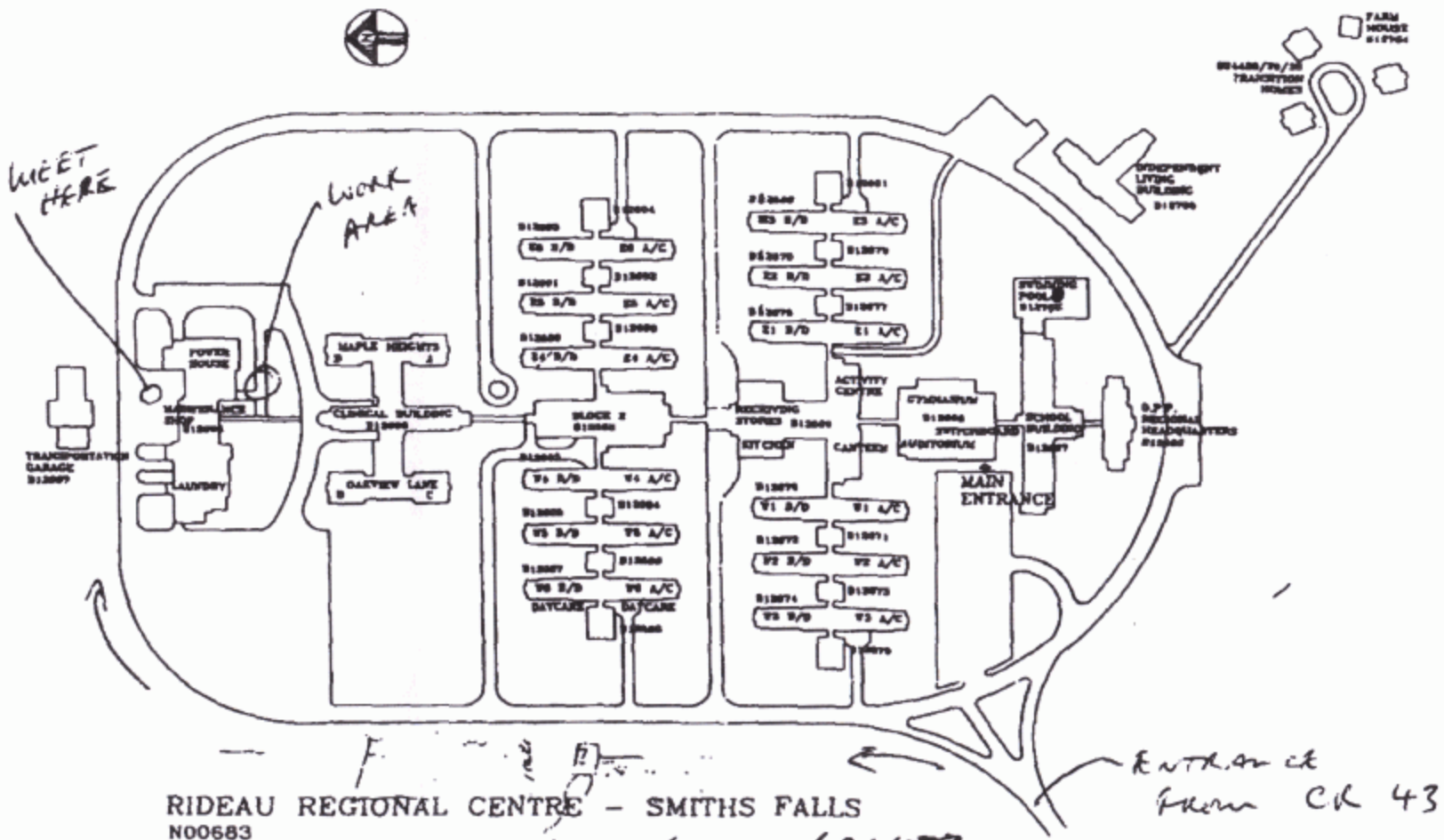


Client/Location: ONTARIO REALTY CORPORATION RIDEAU REGIONAL CENTRE SMITHS FALLS, ONTARIO		Title: SITE LAYOUT SHOWING MONITORING WELLS	
Project No: 03471	Filename: 03471-MW-WL2.DWG	Date: JUNE 2008	Dwg No: FIGURE 2
Drawn: EM	Verified: KE	Project Manager: RAS	

M 03128

JUL 07 2008

C-6964



RIDEAU REGIONAL CENTRE - SMITHS FALLS
N00683

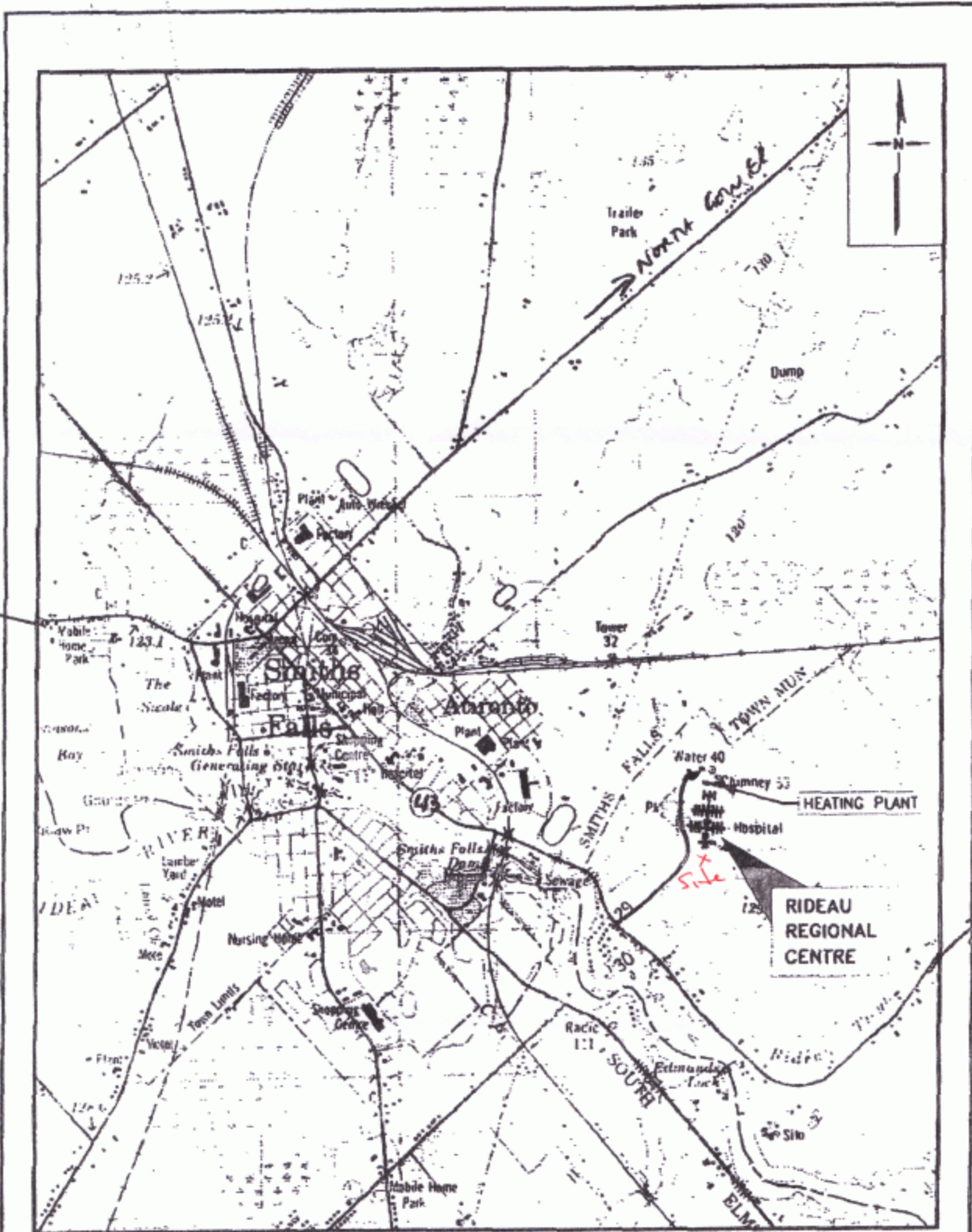
ENTRANCE from CR 43

~~624433~~
~~619 226 5529~~

FIGURE 2


JUL 07 2008

M03128 C-6964



NOTE(S):
1. SCALE IS APPROXIMATE

SCALE 1:40,000
0 0.5 1km

	Client/Location: ONTARIO REALTY CORPORATION RIDEAU REGIONAL CENTRE SMITHS FALLS, ONTARIO		Title: SITE LOCATION	
	Project No: 03471	Drawing: 803471-SMTH-PLS.CDR	Date: 17-FEB-2008	Draw No: FIGURE 1
	Drawn/Design: EM	Written: TC	Project Manager: MAS	

M03128 JUL 07 2008 C-6964

Master Well Owner's and Land Owner's Information

First Name: **TROW ENVIRONMENTAL** Last Name: _____ E-mail Address: _____
 Mailing Address (Street Number/Name, RR): **154 Colonnade Rd-S** Municipality: **OTTAWA** Province: **ON** Postal Code: **K2E 7J5** Telephone No. (inc. area code): **613 225 9940**

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): **481 Rideau St.** Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: **OTTAWA** City/Town/Village: _____ Province: **Ontario** Postal Code: _____

UTM Coordinates: NAD 83 Zone: **18** Easting: **946836** Northing: **5031130** GPS Unit Make: **Garmin** Model: **ETREX** Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
BAN	FILL	SAND	LOOSE	0	0.6
BAN	CLAY	SILT	DENSE	0.6	4.57
GRY	CLAY	SILT.	WET.	4.57	9.75

Hole Details

Depth (Metres)	Diameter (Centimetres)		
		From	To
0	10.92	0	9.75

Water Use

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

Method of Construction

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

Status of Well

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

No Casing and Screen Used Yes No

Static Water Level Test _____ Metres

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
5.20	PLASTIC RISER	0.390	0	5.18
5.20	PLASTIC SCREEN	0.390	5.18	9.75

Screen

Galvanized Steel Fibreglass Concrete Plastic
 Outside Diameter (Centimetres): **6.03** Slot No.: **10**

Water Details

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

Annular Space/Abandonment Sealing Record

Depth Set at (Metres)	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0 - 0.3	CONCRETE	
0.3 - 4.57	BENTONITE	
4.57 - 9.75	SAND	

Disinfected Yes No If no, provide reason: _____ Date Master Well Completed (yyyy/mm/dd): **08/12/09**

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: **4** Please indicate Number of Cluster Well Information Log Sheets Submitted: _____
 Total Wells on this Property: **4** _____

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request

Signature of Technician/Contractor: _____ Date (yyyy/mm/dd): _____

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Soil Sampling** Well Contractor's Licence No.: **7241**
 Business Address (Street No./Name, number, RR): **2-147 West Beaver Creek Dr** Municipality: **Richmond Hill**
 Province: **ON** Postal Code: **L4B 1C6** Business E-mail Address: **strataSoil.com**
 Bus. Telephone No. (inc. area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **Muir, Mike**
 Well Technician's Licence No.: **3448** Signature of Technician: **Mike Muir** Date Submitted (yyyy/mm/dd): _____

Well Contractor No.: **M 02546**

Date Received (yyyy/mm/dd): **JAN 09 2009** Date of Inspection (yyyy/mm/dd): _____
 Remarks: _____

Well Tag No. **A 067088**
 A067088

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

6045 Page 2 of 3

Property Owner's Information

First Name: Trow Environmental Last Name: Trow Environmental Mailing Address (Street No./Name, RR): 154 Colonade St - S Municipality: Ottawa

Province: ON Postal Code: K2E7J5 E-mail Address: _____ Telephone No. (inc. area code): 613 225 9940

Cluster Well Information

Address of Well Location (Street Number/Name, RR): 481 Rideau St. Lot: _____ Concession: _____ Township: _____ County/District/Municipality: _____

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

Co...
 Pro...
 Sig...
 Co...
 upon request
 Signature of Technician/Contractor: _____ Date (yyyy/mm/dd): _____

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					
2	1844	68335031	12.4	9.75	10.92	Direct Push	PVC	5.18	5.18	9.75	Benseal			2008/12/8
3	1844	68325031	11.2	9.75	10.92	"	"	5.18	5.18	9.75	Benseal			2008/12/8
4	1844	68455031	11.07	6.12	10.92	"	"	1.5	1.5	6.1	Benseal			2008/12/8

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Business Address (Street Number/Name, RR): 2-147 West Beaver Creek Dr Municipality: Richmond Hill Province: ON

Postal Code: L4B1C6 Business Telephone No. (inc. area code): 905 764 9304 Well Contractor's Licence No.: 7241 Business E-mail Address: stratasoil.com

Name of Well Technician (First Name, Last Name): Mike, Muir Well Technician's Licence No.: 3448 Date Submitted (yyyy/mm/dd): _____ Signature of Technician: [Signature]

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2008/12/8 Date Last Well in Cluster Constructed (yyyy/mm/dd): 2008/12/8

Ministry Use Only

Date Received (yyyy/mm/dd): JAN 09 2009 Date Inspected (yyyy/mm/dd): _____

Audit No.: C 01658 Remarks: _____



Ministry of the Environment

Sticker and/or Print Below

A 087362 A.087362

S12146-1
Well Record

Regulation 903 Ontario Water Resources Act

Page 2 of 2

Measurements recorded in: Metric In

Well Owner's Information

First Name: _____ Last Name / Organization: Allegro E-mail Address: _____ 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): 240 Friel St Township: _____ Lot: _____ Concession: _____

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

UTM Coordinates: Zone 18 Easting 446528 Northing 5031004 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) From	Depth (m/ft) To
<u>BLK/GRY</u>	<u>Fill</u>		<u>hard</u>	<u>0</u>	<u>1.83</u>
<u>GRY</u>	<u>Clay</u>		<u>soft</u>	<u>1.83</u>	<u>3.1</u>

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<u>0</u>	<u>0.31</u>	<u>Concrete Flushmount</u>	
<u>0.31</u>	<u>1.22</u>	<u>Bensol</u>	
<u>1.22</u>	<u>3.1</u>	<u>Sand</u>	

Results of Well Yield Testing

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

If pumping discontinued, give reason:
 Static Level: _____

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

Pump intake set at (m/ft): _____

Pumping rate (l/min / GPM): _____

Duration of pumping: _____ hrs + _____ min

Final water level end of pumping (m/ft): _____

If flowing give rate (l/min / GPM): _____

Recommended pump depth (m/ft): _____

Recommended pump rate (l/min / GPM): _____

Well production (l/min / GPM): _____

Disinfected? Yes No

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<u>2.61</u>	<u>PVC</u>	<u>.338</u>	<u>0</u>	<u>1.5</u>	<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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
<u>334</u>	<u>PVC</u>	<u>10</u>	<u>1.5</u>	<u>3.1</u>	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
		<u>0</u>	<u>334</u>	<u>5.71</u>

Well Contractor and Well Technician Information

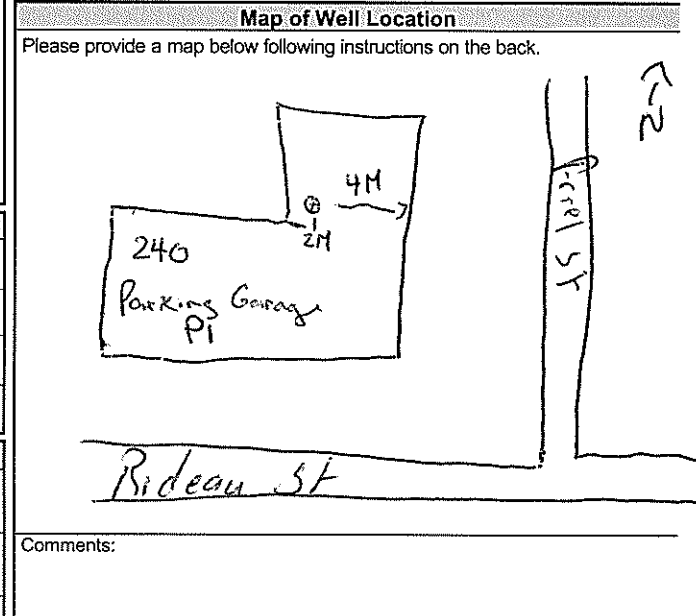
Business Name of Well Contractor: strata soil sampling Well Contractor's Licence No.: 72411

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

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): Beatty Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: _____ Date Submitted: 2012/02/07



Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: <u>YYYYMMDD</u>	Ministry Use Only
	Date Work Completed: <u>20120130</u>	

Measurements recorded in: Metric Imperial

A 087366 A087366

Well Owner's Information

First Name: _____ Last Name / Organization: Allegro E-mail Address: _____ 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): 240 Fines ST Township: _____ Lot: _____ Concession: _____

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

UTM Coordinates: Zone: _____ Easting: _____ Northing: _____ Municipal Plan and Sublot Number: _____ Other: _____

NAD 83 18 446520 5638011

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
<u>DK/GRY</u>	<u>Fill</u>		<u>dry, hard</u>	<u>0</u>	<u>1.83</u>
<u>GRY</u>	<u>Clay</u>		<u>wt, soft</u>	<u>1.83</u>	<u>3.1</u>

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 - 0.31	<u>Concrete Flashmort</u>	
0.31 - 1.22		
1.22 - 3.1		

Results of Well Yield Testing

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

Method of Construction: Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Other, specify direct push

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<u>2.61</u>	<u>PVC</u>	<u>338</u>	<u>0</u>	<u>1.5</u>	<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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
<u>3.34</u>	<u>PVC</u>	<u>10</u>	<u>1.5</u>	<u>3.1</u>	

Water Details

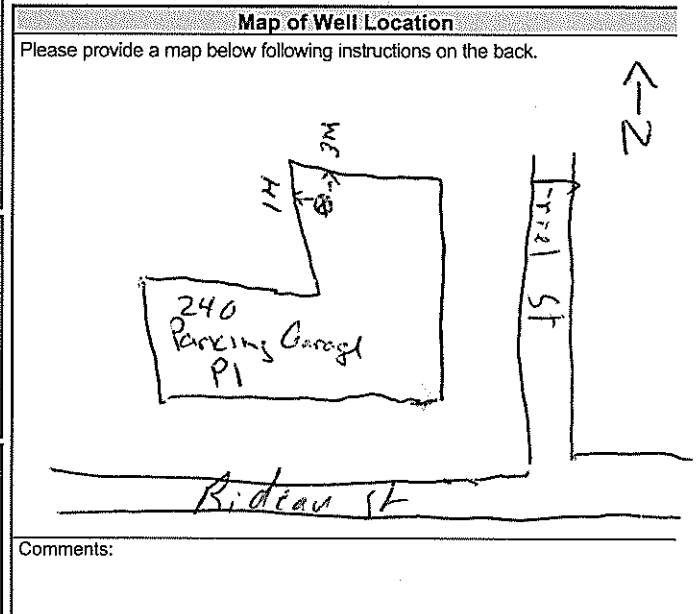
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter
		Depth (m/ft) From To Diameter (cm/in)
		<u>0 3.1 5.71</u>

Well Contractor and Well Technician Information

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

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

Province: ON Postal Code: L4B 1K6 Business E-mail Address: wrecords@stratasoil.com



Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Beatty Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20120807

Well owner's information package delivered: Yes No

Date Package Delivered: 20120131 Date Work Completed: _____

Ministry Use Only

Audit No.: Z145235

MAR 09 2012



Measurements recorded in: Metric Imperial

Well Owner's Information

First Name, Last Name / Organization (Allegro), E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location (240 Friel St), Township (Ottawa), Lot, Concession, County/District/Municipality, City/Town/Village, Province (Ontario), Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten entries for soil and clay.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed (m³/ft³). Includes handwritten entries for concrete flushment, bentonite, and sand.

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes handwritten data for pumping tests.

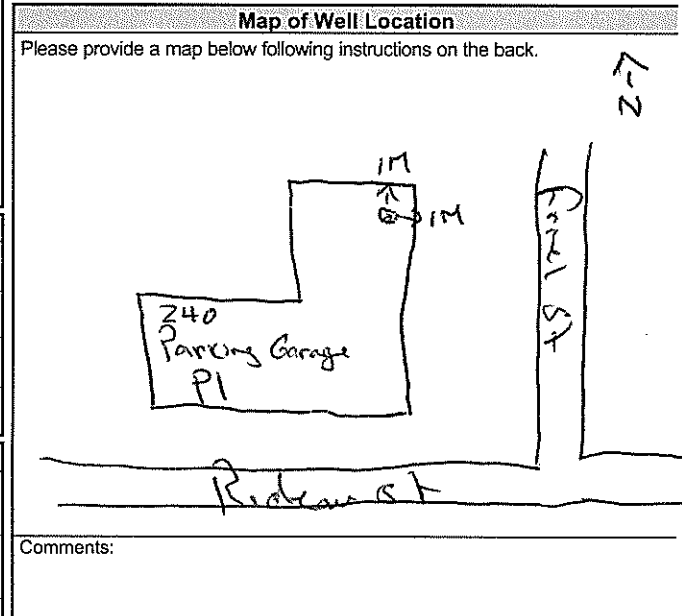
Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Municipal, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To, Status of Well. Includes handwritten entries for PVC casing.

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To, Status of Well. Includes handwritten entries for PVC screen.

Water Details and Hole Diameter table with columns: Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information section with fields for Business Name, Address, Licence No., and Technician Name.



Well owner's information and Date Package Delivered section with fields for telephone number, technician name, licence number, and date.

Ministry Use Only section with fields for Audit No. (Z145283), Date Work Completed, and Received date (MAR 09 2012).



Ministry of the Environment

Mail Tax No. (Place Sticker and/or Print Below)

A 086627

A086627

Well Record

Regulation 903 Ontario Water Resources Act

Page 5-12148 of 1

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Allegro Last Name / Organization: _____ E-mail Address: _____ 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): 240 Pine St Township: _____ Lot: _____ Concession: _____

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

UTM Coordinates: Zone 18 Easting 446521 Northing 5031006 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)	
				From	To
<u>BLK/GRY</u>	<u>Fill</u>	<u>Sand, Stones</u>	<u>Soft, dry</u>	<u>0</u>	<u>3.35</u>
<u>BLK/GRY</u>	<u>Fill</u>	<u>Sand, Stone, Clay</u>	<u>Soft, wet</u>	<u>3.35</u>	<u>4.57</u>

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
<u>0 - 0.31</u>	<u>Concrete / Flush mount</u>	
<u>0.31 - 1.22</u>	<u>Benseal</u>	
<u>1.22 - 4.57</u>	<u>Sand</u>	

Results of Well Yield Testing

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

Method of Construction

Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Air percussion Other, specify direct hole

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<u>345</u>	<u>PVC</u>	<u>356</u>	<u>0</u>	<u>3.1</u>	<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 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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
<u>4.21</u>	<u>PVC</u>	<u>10</u>	<u>3.1</u>	<u>4.57</u>

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
<u>0</u>		<u>0 - 4.57</u>	<u>5.71</u>

Well Contractor and Well Technician Information

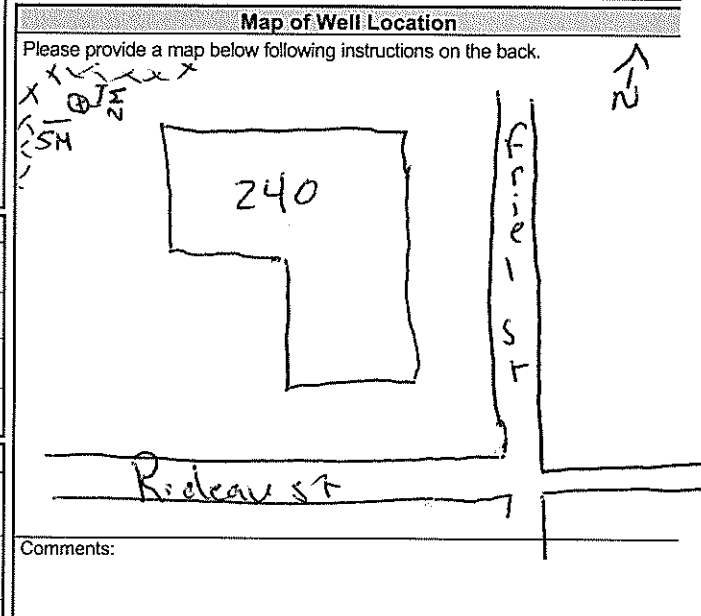
Business Name of Well Contractor: Strata Soil Sampling Well Contractor's Licence No.: 7121411

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): 905 764 9304 Name of Well Technician (Last Name, First Name): Beatty Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20120213



Well owner's information package delivered: Yes No

Date Package Delivered: 20120201 Date Work Completed: 20120201

Ministry Use Only

Audit No.: Z145215

Received: APR 24 2012



Ministry of the Environment

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

1123817

S-12145 ~~512144~~
Well Record
Regulation 903 Ontario Water Resources Act

Well Location

Address of Well Location (Street Number/Name) 240 Laurel St Township _____ Lot _____ Concession _____
 County/District/Municipality _____ City/Town/Village _____ Province **Ontario** Postal Code _____
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other
 NAD | 8 | 3 | 1 | 8 | 4 | 4 | 6 | 5 | 2 | 1 | 5 | 0 | 3 | 1 | 0 | 0 | 6

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
BLK/GRY	Fill		dry hard	0	3.1
BLK/GRY	Fill		wet hard	3.1	4.57

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 3.1	Concrete flush mount	
3.1 - 1.22	Bens-wat	
1.22 - 4.57	Sand	

Results of Well Yield Testing

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

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial
 Other, specify direct push Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
3.45	PVC	.356	0	1.5	<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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
4.21	PVC	10	1.5	4.57	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
		From	To
		0	4.57
			5.71

Well Contractor and Well Technician Information

Business Name of Well Contractor Strata Soil Sampling Well Contractor's Licence No. 7121411
 Business Address (Street Number/Name) #2-147 West Beaver Creek Rd. Municipality Richmond Hill
 Province ON Postal Code L4B1C6 Business E-mail Address _____

Bus. Telephone No. (inc. area code) 905 764 1930 Name of Well Technician (Last Name, First Name) _____
 Well Technician's Licence No. _____ Signature of Technician and/or Contractor _____ Date Submitted 2012/02/24

Map of Well Location

Please provide a map below following instructions on the back.

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	Ministry Use Only Audit No. <u>2145285</u> Received <u>MAY 17 2012</u>
	Date Work Completed <u>2012/02/24</u>	



Measurements recorded in: Metric Imperial

A110631

Well Owner's Information

First Name, Last Name / Organization (Grimes Realty), E-mail Address, Mailing Address (2460 Lancaster Rd, suite 201), Municipality (Ottawa), Province (ON), Postal Code (K1B4S5), Telephone No.

Well Location

Address of Well Location (265 Daly Avenue), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number.

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes entries for Crushed Stone, Silty sand, Concrete slab, Silty clay, and Fill.

Annular Space: Depth Set at (m/ft) From 0 To 2.8, Type of Sealant Used (bentonite), Volume Placed (m³/ft³).

Results of Well Yield Testing: Table with columns for Draw Down (Time, Water Level) and Recovery (Time, Water Level). Includes pumping rate, duration, and final water level.

Method of Construction: Direct Push. Well Use: Public, Commercial, Not used, Domestic, Municipal, Dewatering, Livestock, Test Hole, Monitoring, Irrigation, Cooling & Air Conditioning, Industrial, Other.

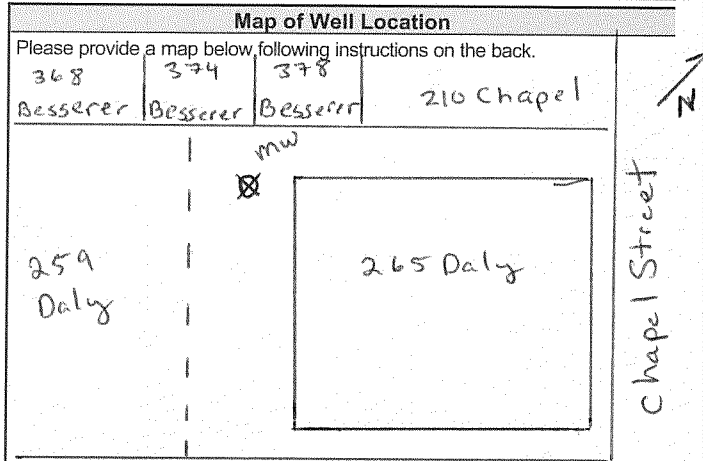
Construction Record - Casing: Inside Diameter (3.1), Open Hole OR Material (PVC), Wall Thickness (Schedule 40), Depth (0 to 3.1). Status of Well: Observation and/or Monitoring Hole.

Construction Record - Screen: Outside Diameter (3.8), Material (PVC), Slot No. (10), Depth (3.1 to 6.1). Status of Well: Abandoned, Abandoned, Poor Water Quality, Abandoned, other, specify.

Water Details: Water found at Depth (5.6 m/ft), Kind of Water (Untested). Hole Diameter: Depth (0 to 6.10), Diameter (8.89).

Well Contractor and Well Technician Information: Business Name (Eastern Ontario Diamond Drilling Ltd), Well Contractor's Licence No. (7328), Business Address (3780 County Rd 17, P.O. Box 33), Municipality (Hawkesbury).

Well Technician Information: Name (Stephen), Signature, Date Submitted (2014/04/25).



Comments: Daly Avenue

Ministry Use Only: Audit No. (Z171268), Date Work Completed (2012/12/05), Received (MAY 27 2014).



Measurements recorded in: Metric Imperial

A130190

Well Owner's Information

First Name, Last Name / Organization (Claridge Homes), E-mail Address, Mailing Address (2000-210 Gladstone St.), Municipality (Ottawa), Province (ON), Postal Code (K2P0Y6), Telephone No.

Well Location

Address of Well Location (151 Chapel St.), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other.

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Rows include asphalt, crushed stone, sand, silty clay.

Annular Space: Depth Set at (m/ft) From 4.2 To 5.2, Type of Sealant Used (Bentonite), Volume Placed (m³/ft²).

Method of Construction: Other, specify H.S.A. Well Use: Commercial, Not used, Municipal, Dewatering, Monitoring.

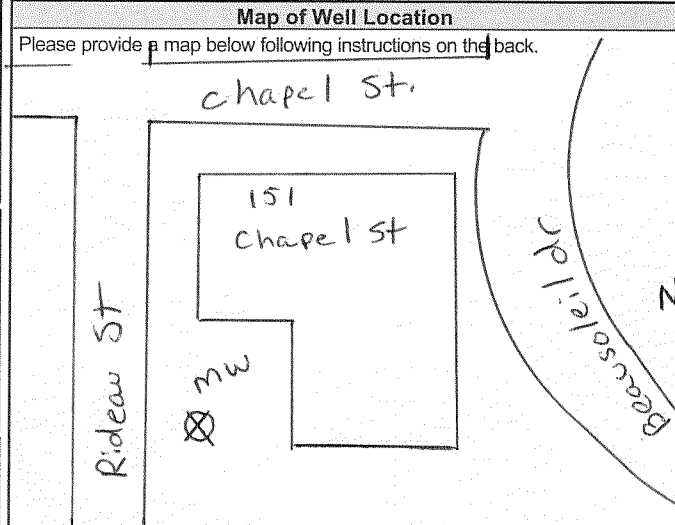
Construction Record - Casing: Inside Diameter (5 cm/in), Open Hole OR Material (PVC), Wall Thickness (Schedule 40), Depth (0 to 6.2 m/ft). Status of Well: Observation and/or Monitoring Hole.

Construction Record - Screen: Outside Diameter (5.1 cm/in), Material (PVC), Slot No. (10), Depth (6.2 to 9.2 m/ft). Status of Well: Abandoned, Abandoned, Poor Water Quality.

Water Details: Water found at Depth (m/ft), Kind of Water (Fresh, Untested, Gas, Other). Hole Diameter: Depth (0 to 11.28 m/ft), Diameter (20 cm/in).

Well Contractor and Well Technician Information: Business Name (Eastern Ontario Diamond Drilling Ltd.), Well Contractor's Licence No. (7328), Business Address (3780 County Rd 17, P.O. Box 33), Municipality (Hawkesbury), Province (ON), Postal Code (K6A2R4), Business E-mail Address (ontariodiamond@hawk.igs.net), Name of Well Technician (Stephen), Well Technician's Licence No. (3326), Signature, Date Submitted (20140425).

Results of Well Yield Testing: After test of well yield, water was... Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes a table with 6 rows for draw down and recovery data.



Comments:

Well owner's information package delivered: Yes, No. Date Package Delivered (20140814), Date Work Completed (20140814). Ministry Use Only: Audit No. (Z171270), Date (MAY 27 2014).

A138391

Tag#: A138391

S-13294

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information



Well Location

Address of Well Location (Street Number/Name): 470 RIVER ST.
 Township: OTTAWA
 Lot: _____
 Concession: _____
 County/District/Municipality: _____
 City/Town/Village: OTTAWA
 Province: Ontario
 Postal Code: _____
 UTM Coordinates: Zone Easting Northing: 18 446 833 503 110
 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)	
				From	To
BRN	FILL	SAND/GRAVEL	LOOSE	0	2.44
BRN	CLAY	SILT.	SOFT.	2.44	3.1
GRY	CLAY	SILT	SOFT.	3.1	6.1

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	
0	0.3 CONCRETE/FLUSH MOUNT.	
0.3	2.74 BENTONITE	
2.74	6.1 SAND	

Results of Well Yield Testing

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

Method of Construction

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

Well Use

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

Construction Record - Casing

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

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

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From	To
		0	6.1 8.25

Well Contractor and Well Technician Information

Business Name of Well Contractor: STRATA SERVICES INC
 Business Address (Street Number/Name): 147 WEST BEAVER CREEK RD
 Province: ON Postal Code: L4B 1C6 Business E-mail Address: wrecords@strataserv.com
 Well Contractor's Licence No.: 7241
 Municipality: Richmond Hill
 Bus. Telephone No. (inc. area code): 905 746 9304 Name of Well Technician (Last Name, First Name): DONAUSCHER ERNCE
 Well Technician's Licence No.: 3716 Signature of Technician and/or Contractor: _____ Date Submitted: 2015/11/30

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments: _____

Well owner's information package delivered: Yes No

Date Package Delivered: Y|Y|Y|M|D|D
 Date Work Completed: 2012/1/05

Ministry Use Only

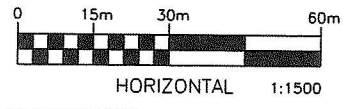
Audit No. Z 157001

Received: _____

S-13294



C-7241 215700



exp Services Inc. www.exp.com
 t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

DEC 04 2012

DATE JUNE 2012		CLIENT: [REDACTED]	project no. OTT-00206727-A0
DESIGN D.C.	CHECKED M.G.M.		scale 1:1500
DRAWN BY M.N.		TITLE: SITE PLAN 470 RIDEAU STREET, OTTAWA, ON	FIG 2

Measurements recorded in: Metric Imperial

A138489

Tag#: A138489

Page _____ of _____

Well Owner's Information

Well Location

Address of Well Location (Street Number/Name): 470 Rideau Street
 Township: Ottawa
 City/Town/Village: Ottawa
 Province: Ontario
 County/District/Municipality: [blank]
 Lot: [blank]
 Concession: [blank]
 Postal Code: [blank]
 UTM Coordinates: Zone Easting Northing: NAD 83 18 44 68 47 50 31 06 3
 Municipal Plan and Sublot Number: [blank]

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
BRN	fill	Sand / Gravel	loose	0	2.44
BRN	Clay	silt	soft	2.44	3.1
GRY	Clay	Silt	soft	3.1	6.1

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0	0.3	Concrete / flush mount	
0.3	2.74	Bentonite	
2.74	6.1	Sand	

Results of Well Yield Testing

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

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 Other, specify Direct Push

Well Use

Construction Record - Casing

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

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

Water Details

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: STRATA SOIL Sampling Inc.
 Well Contractor's Licence No.: 72411
 Business Address (Street Number/Name): 147 west beaver creek rd.
 Municipality: Richmond Hill
 Province: ON
 Postal Code: L4B1K6
 Business E-mail Address: wrecords@strataoil.com
 Bus. Telephone No. (inc. area code): 905 746 9130
 Name of Well Technician (Last Name, First Name): Pollatschek Ernie
 Well Technician's Licence No.: 3716
 Signature of Technician and/or Contractor: [Signature]
 Date Submitted: 2012/11/30

Map of Well Location

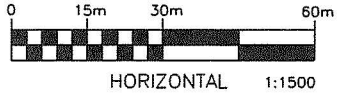
Please provide a map below following instructions on the back.

See attached map (MW2)

Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: Y Y Y M M D D: 2012/11/05	Ministry Use Only Audit No.: Z157004 Received: 04 2012
	Date Work Completed: 2012/11/05	

S-13294



C-7241 2157004



exp Services Inc. www.exp.com
 t: +1.613.688.1899 | f: +1.613.225.7337
 2650 Queensview Drive, Suite 100
 Ottawa, ON K2B 8H6, Canada

ELL 04 2012

DATE JUNE 2012		CLIENT:	project no. OTT-00206727-A0
DESIGN D.C.	CHECKED M.G.M.	TITLE: SITE PLAN 470 RIDEAU STREET, OTTAWA, ON	scale 1:1500
DRAWN BY M.N.			FIG 2

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Sean Moggridge
B.Eng.

patersongroup

POSITION

Junior Environmental Engineer

EDUCATION

Dalhousie University, B.Eng., 2010
Environmental Engineering

EXPERIENCE

2011 to Present:

Paterson Group Inc.

Consulting Engineers
Environmental Division
Junior Engineer

SELECT LIST OF PROJECTS

Remediation Supervision of Former Alcan Plant – Kingston
Remediation Supervision of Bulk Fuel Depot Site – Ottawa
Remediation Supervision of Biohazard Site – Ottawa
Post-construction Impact Monitoring – Ottawa, Cornwall
Designated Substance and Asbestos Surveys – Various Locations, Ottawa
Asbestos Air Testing – Various Locations, Ottawa
Groundwater Monitoring and Sampling – Various Location, Ottawa
Phase I & II ESA – Various Locations, Ontario and West Quebec

**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

**Environmental
Engineering**

**Geotechnical
Engineering**

**Materials Testing
Quality Control**

Building Science

Hydrogeology

**Archaeological
Services**

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