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Phase I Environmental Site Assessment

Residential Properties 3817, 3819, 3835 and 3843 Innes Road Ottawa, Ontario

Prepared For

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for the property at 3817, 3819, 3835 and 3843 Innes Road 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 adjacent 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 has been used for residential purposes since its development in the 1950s/1960s. Similarly, most of the neighbouring properties have been used for residential purposes since their development. The exceptions are the retail fuel outlet (RFO) to the east and the commercial/retail development to the south. The presence of a retail fuel outlet to the east of the subject site, at the intersection of Innes Road and Belcourt Boulevard, does result in an area of potential environmental concern on the eastern part of the subject property.

Following the historical review a site visit was conducted. The site is occupied by two (2) three-storey residential apartment buildings and two (2) residential dwellings. The buildings at 3817 and 3819 are not currently heated and do not contain any heating appliances. Both buildings were formerly heated by natural gas fired forced air furnaces. The building at 3835 Innes Road is not currently heated, but does contain a natural gas fired forced air furnace on the basement level. The building at 3843 Innes Road is not currently heated. The building was formerly heated with electrical baseboard heaters, and prior to electric heaters, the building was heated with fuel oil. The heating oil storage tank is present in the basement, and some discolouration was present in the gravel around the tank and furnace. The staining around the fuel storage was identified as a potentially contaminating activity and an APEC.

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Recommendations

Based on the construction dates of the buildings, asbestos-containing materials and lead-based paints are potentially present. It is recommended that a designated substances survey (DSS) be completed on the subject buildings prior to their demolition.

Based on the results of this Phase I Environmental Site Assessment, several PCAs were identified in the Phase I study area, resulting in Areas of Potential Environmental Concern (APECs) and in our opinion, a Phase II - Environmental Site Assessment is required for the property.



Residential Properties – 3817, 3819, 3835 and 3843 Innes Ottawa, Ontario

1.0 INTRODUCTION

At the request of Mr. Edward Sawaya of 7053525 Canada Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I-ESA) of the properties located at 3817, 3819, 3835 and 3843 Innes Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Edward Sawaya. Mr. Sawaya can be reached by telephone at (613) 834-7555.

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

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Residential Properties – 3817, 3819, 3835 and 3843 Innes Ottawa, Ontario

2.0 PHASE I PROPERTY INFORMATION

Address: 3817, 3819, 3835, 3843 Innes Road, Ottawa, Ontario.

Legal Description: Lot 27 and Part of Lots 28, 29, and 30, Registrar's

Compiled Plan 905, City of Ottawa, Ontario.

Property Identification

Numbers: 04413-0389 (3817 and 3819 Innes Road), 04413-

0387, 04413-0212

Location: The subject site is located on the north side of Innes

Road, between Belcourt Boulevard and Viseneau

Drive.

Latitude and Longitude: 45°27′ 10″ N, 75°30′ 47″ W.

Site Description:

Configuration: Rectangular.

Site Area: 0.72 ha (approximate)

Zoning: R4Z – Residential Fourth Density.

Current Use: The site is developed with four (4) residential

buildings that are currently unoccupied.

Services: The subject site is located in a municipally serviced

area.

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3.0 SCOPE OF INVESTIGATION

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

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

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Residential Properties – 3817, 3819, 3835 and 3843 Innes Ottawa, Ontario

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

According to the city directories and aerial photos, the subject site was developed between 1948 and 1967 with several residential structures were present at the subject site. The existing residential apartment buildings (#3917 and #3835) appear to have been constructed in the late 1960s or 1970s.

Fire Insurance Plans

Fire Insurance Plans (FIPs) were not available for the area of the subject site.

City of Ottawa Street Directories

City directories for the area of the subject property were reviewed at approximately 10 year intervals. The subject site addresses have been listed as residential since 1992. Before this time, the directories did not cover the area of the subject site.

One (1) potential environmental concern was identified in the Phase I study area.

There was gasoline service station listed at 3869 Innes Road in 2000/2001, adjacent to the subject site on the east side. This site poses a potential environmental concern to the subject site due to its proximity.

Two (2) additional gasoline service stations were listed at 3934 Innes Road, approximately 260 m to the east on the south side of Innes Road, and at 3944 Innes Road, approximately 340 m to the east, on the south side of Innes Road. These are both outside of the Phase I study area and are not considered to pose a concern with respect to the subject site.

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Chain of Title

A title search for the subject property was requested from Read Abstracts Ltd. of Ottawa, Ontario. At the time of issuing this report, the title search had not been received from Read Abstracts. Given that the site has always been a residential property, it is not expected that the title search will contain any significant information.

Current Plan of Survey

A current plan of survey was reviewed as a part of this assessment. The survey plan was prepared by Annis, O'Sullivan, Vollebekk Limited, dated February 2013. The survey plan shows the subject site in its current configuration.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on April 10, 2015. The subject site was not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

PCB Inventory

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

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. The response from the MOECC did not identify any issued instruments for the site.

MOECC Coal Gasification Plant Inventory

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

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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 Ministry of Environment and Climate Change resulted in one (1) incident report, detailing a motor vehicle air emission contravention at 3835 Innes Road. This incident is not considered to have impacted the subject property. One (1) occurrence report was returned from the MOECC for 3835 Innes Road, for an odour complaint and suspected spill during the pumping of a septic tank. The system was repaired and is not considered to pose a concern to the subject site.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. No records were returned from the MOECC search.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions for the property. No records were returned from the MOECC search.

MOECC Brownfields Environmental Site Registry

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

MOECC Waste Disposal Site Inventory

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

Ottawa, Ontario



Road

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on April 10, 2015. No areas of natural significance were identified within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on April 10, 2015 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The TSSA search returned a record of seven (7) active underground storage tanks at 3869 Innes Road, immediately to the east of the subject site. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

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

City of Ottawa Historical Land Use Inventory

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was sent on March 25, 2015 to the City of Ottawa. The response from the City confirmed that the property at 3869 Innes Road has been occupied by a gasoline service station since at least 2001. This land use poses a potential environmental risk to the subject site. The internal department circulation identified the two (2) waste management facilities located within 5 km of the subject site, but not within the Phase I study area. No other risks were identified by the HLUI search.

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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:

1948	The subject site and surrounding properties are agricultural fields and farmsteads. Only the westernmost part of the subject site is visible in the photo. Innes Road is present to the south of the subject site.
1958	The subject site is occupied by fields and a farmstead. The surrounding properties are the same. Drolet Street has been constructed to the north of the subject site, and has been developed with some residential dwellings along the west side of the street.
1967	Additional structures appear to be present on the subject site. Additional residential dwellings are present to the north on Drolet Street.
1973	No significant changes appear to have been made to the subject site or surrounding properties.
1985	No significant changes have been made to the subject site. Markwell Crescent has been constructed and developed with residential dwellings to the north and west. Substantial residential developments are present to the west. Limited development has occurred to the west along the south side of Innes Road.
1994	No significant changes appear to have been made to the subject site. Residential developments are present to the north, east and west of the subject site. The property adjacent to 3843 Innes Road, to the east, has been developed. The south side of Innes Road in the vicinity of the subject site remains undeveloped.
2002	No changes appear to have been made to the subject site or adjacent properties.



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2014

(City of Ottawa) No significant changes have been made to the subject site. A large retail shopping centre has been constructed to the south of the subject site, on the south side of Innes Road.

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

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 90 m ASL, and that the regional topography in the general area of the site slopes downward to the north, towards the Ottawa River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website, as a part of this assessment. According to the publication and attached mapping, the site is situated within the St. Lawrence Lowlands, Till Plains (Drumlinized) physiographic region. 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 on an area of till.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment.

Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River formation. Overburden consists of offshore marine sediments on the north side of the site, plain till on the south side, and Paleozoic rock at the south end of 3817 Innes Road. Drift thickness on the south end of 3817 Innes Road is on the order of 0 to 2 m, while drift thickness on the rest of the site is 2-3 m.



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Water Well Records

A search of the MOECC's web site for all drilled well records within 250 m of the subject site was conducted on April 10, 2015. The search returned records for 1 domestic water supply well on the subject site, 17 domestic water supply wells in the Phase I study area, and 4 monitoring wells in the Phase I study area. The domestic supply well on the subject site was completed in 1960 and is located at 3843 Innes Road, approximately 40 m to the west of the eastern property line, near the road. The water supply wells are not expected to be in current use and no concerns have been identified with respect to the presence of monitoring wells.

Water Bodies and Areas of Natural Significance

Bilberry Creek is the closest water body, and is present approximately 880 m to the northeast of the subject site. No creeks, streams, lakes or other water bodies were identified in the Phase I study area. No areas of natural significance were identified within the Phase I study area.



5.0 INTERVIEWS

Property Owner Representative

Mr. Edward Suwaya was interviewed as part of this assessment. Mr. Suwaya has owned the site for seven years and was not aware of the history of the site prior to his taking ownership. According to Mr. Suwaya, the buildings at 3817, 3819 and 3835 were likely constructed in the 1960s. The building at 3843 was likely constructed in the 1910s or 1920s, and was converted to electric heat more than seven years ago. No asbestos survey or designated substances survey had been conducted on the properties at the time of this assessment. Mr. Suwaya did not identify any environmental concerns with the properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted May 6, 2015. Weather conditions were sunny, with a temperature of approximately 22° C. Personnel from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject property is occupied by two (2) three (3) storey residential apartment buildings each containing three (3) apartment units, and two (2) residential dwellings. None of the buildings were occupied by tenants at the time of the site visit. The apartment buildings are situated near the front (south) of the properties at 3817 and 3835 Innes Road. The roofs of the apartment buildings are flat tar and gravel. The roof of 3819 is sloped and shingled; the roof of 3843 is sloped metal sheeting.

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3817 Innes Road

Each unit of the apartment building at 3817 Innes Road occupies one level of the building. The building has a concrete foundation and is finished with decorative pebble. A wooden ramp is installed at the back of building for accessibility. Some buckets were observed at the back of the building, labelled as paint and petroleum oil. No staining was observed on the ground around the buckets. Each unit contains ceramic tile and laminate flooring, and drywall on the walls and ceiling. Some wood wall panelling was also present. Incandescent lighting was observed throughout the building. The mechanical room located in the basement apartment contains the ducts of a former furnace, and a natural gas connection. No unusual odours or visual observations were made at the time of the site visit.

3819 Innes Road

The residential one and a half storey dwelling at 3819 Innes Road is located behind the apartment building at 3817 Innes Road. The building has a concrete foundation and has an exterior finish of red brick and white vinyl siding. The half basement level is designed (post-construction) as a separate apartment unit, with an exterior stairway entrance at the front of the building. Floors in the building are ceramic tile, hardwood, and laminate. Walls are mostly drywall, with tile in the bathroom, and wood panelling in the main living area. Ceilings are stucco and incandescent lighting was observed throughout the building. A mechanical room is located on the basement level at the back of the building and contains the natural gas connection and ducts for the former furnace. No unusual odours or visual observations were made at the time of the site visit.

Two (2) small shed structures are present between the two buildings at 3817 and 3819 Innes Road. These structures contained a filing cabinet and broken furniture and construction debris. Some of this material was also scattered around the exterior of the sheds at the time of the site visit.



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3835 Innes Road

Each unit of the apartment building at 3835 Innes Road occupies one level of the building. The building has a concrete foundation and the exterior is finished with brick. The second and third floor units each have a wooden balcony facing west. Each unit contains ceramic tile, vinyl tile and laminate flooring, and drywall on the walls and ceiling. Incandescent lighting was observed throughout the building. The mechanical room located in the basement level contains a forced air, natural gas fired furnace. No unusual odours or visual observations were made at the time of the site visit.

Three (3) shed structures are present at the back of the building at 3835 Innes Road. The first shed, closest to the building, contains plywood scraps, a propane tank, pieces of brick, wood, and broken furniture. The second shed contains furniture and yard debris. The third shed contains logs and yard debris. A gravel pad is present between the second and third sheds, and appears to have been constructed for the installation of another shed.

3843 Innes Road

The residential dwelling at 3843 Innes Road is located in the northwest corner of the property, and the ground is raised above the surrounding land on the property. The structure is two storeys, and has a sloped sheet metal roof, vinyl siding, and concrete foundation. The building has linoleum, carpet, laminate, and vinyl tile flooring, tile and drywall walls, stucco ceilings, and fluorescent and incandescent lighting. The building is not currently heated, but was heated with electric baseboard heaters when it was occupied. The gravelled basement crawlspace contains an aboveground fuel oil storage tank (AST) and furnace, which would have been used to heat the building prior to its conversion to electric heating. Some suspected fuel oil staining was visible on the gravel around the AST and furnace. An empty methanol barrel was also present at the site, located along the west wall of the building. The barrel appeared to not have been used to store methanol at the site, and was not considered to pose a concern.

Site

The subject site is occupied by two (2) three storey residential apartment buildings and two (2) residential dwellings. Based on the historical review, the site appears to have been occupied with several of the existing buildings since the early 1950s.

North Bay Road Residential Properties – 3817, 3819, 3835 and 3843 Innes Ottawa, Ontario

Underground Utilities

The subject site is located in a municipally serviced area. Underground service locates were acquired for the subject site in May 2015. Electrical services are aboveground to 3817, 3835, and 3843 Innes Road, and below ground to 3819 Innes Road.

Site Features

The subject site contains large vacant spaces of grass, gravel, or asphalt. The topography of the site slopes up from Innes Road, with the largest grade change occurring around the building at 3843 Innes Road. Site drainage is provided by infiltration in the grassed areas and sheet flow to catchbasins on Innes Road and one near the middle of the property at 3835 Innes Road.

Neighbouring Properties

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

- North Residential dwellings;
- South Innes Road, followed by a retail shopping centre;
- East Esso gasoline service station followed by Belcourt Boulevard and commercial businesses:
- West Markwell Crescent and residential dwellings.

Property use within the Phase I study area is shown on Drawing PE3532-2 Surrounding Land Use Plan.

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7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

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

Table 1 - Land Use History – 3817, 3819, 3835, 3843 Innes Road							
Time Period	Land Use	Potentially Contaminating Activities	Areas of Potential Environmental Concern				
Prior to 1951	Agricultural	None	None				
1951 to present	Residential	Suspected fuel leak around aboveground fuel oil storage tank at 2843 Innes Road	Yes				

Table 2 - Land Use History – Surrounding Land Use							
Time Period	Land Use	Potentially Contaminating Activities	Areas of Potential Environmental Concern				
Prior to 1951	Agricultural	None	None				
1951 to 1990	Residential	None	None				
1990 to present	Residential, commercial	Retail fuel outlet located to the east, at 3869 Innes Road	Yes				

Potentially Contaminating Activities

Potentially Contaminating Activities (PCAs) were identified within the Phase I study area. These include the retail fuel outlet at 3869 Innes Road, immediately adjacent to the site, and suspected furnace oil leak from the aboveground storage tank (AST) in the basement of the building at 3843 Innes Road.

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Areas of Potential Environmental Concern

Areas of Potential Environmental Concern (APECs) were identified on site as a result of the retail fuel outlet adjacent to the subject site at 3869 Innes Road, and at the apparent leak from the AST at 3843 Innes Road.

Contaminants of Potential Concern

The contaminants of potential concern identified on the subject property include Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and petroleum hydrocarbons (PHCs).

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The Phase I property is located in an area of offshore marine sediment overburden soils. Groundwater flow is expected to flow in a northerly direction.

Contaminants of Potential Concern

Based on the past and current presence of the adjacent retail fuel outlet site and furnace oil tank, the following Contaminants of Potential Concern (CPCs) have been identified:

Specific Volatile Organic Compounds (BTEX) – this suite of parameters includes Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), associated with gasoline and diesel/fuel oil. These parameters were selected as CPCs for the subject property based on the retail fuel outlet to the east of the subject site and historical use of furnace oil on site. BTEX may be present in the soil matrix as well as in the dissolved phase in the groundwater system.

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■ Petroleum Hydrocarbon Fractions 1 through 4 (PHCs F₁-F₄) – this suite of parameters encompasses gasoline (Fraction 1), diesel and fuel oil (Fraction 2), and heavy oils (Fractions 3 and 4). PHCs F₁-F₄ were selected as CPCs for the Phase I property based on the furnace oil storage tank on site, and the retail fuel outlet to the east of the subject site at 3869 Innes Road. Gasoline and diesel are commonly used motor vehicle fuels, and diesel-fraction hydrocarbons were commonly used as heating oil. PHCs may be present in the soil matrix, sorbed to soil particles, as well as in free or dissolved phase in the groundwater system. PHCs are generally considered to be LNAPLs – light non-aqueous phase liquids, indicating that when present in sufficient concentrations above the solubility limit, they will partition into a separate phase above the water table, due to their lower density.

Existing Buildings and Structures

The subject site is currently occupied two (2) three-storey apartment buildings at 3817 and 3835 Innes Road, a one and a half storey residential dwelling at 3817 Innes Road, and a (2) two storey residential dwelling at 3843 Innes Road. The properties also contain several small storage sheds.

Water Bodies

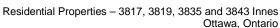
Bilberry Creek is the closest water body, and is present approximately 880 m to the northeast of the subject site. No creeks, streams, lakes or other water bodies were identified in the Phase I study area.

Areas of Natural Significance

No areas of natural significance were identified within the Phase I study area.

Drinking Water Wells

There is a record of one (1) drinking water well on the subject site, at 3843 Innes Road, near the southern property line. There are an additional 17 domestic water supply wells within the Phase 1 Study area. The well on the subject site was completed in 1960 and is not suspected to be in current use.





Neighbouring Land Use

Neighbouring land use in the Phase I study area is currently residential and commercial. The properties consist of single family residential dwellings to the north and west, a retail fuel outlet to the east, and a commercial shopping centre to the south, across Innes Road.

Areas of Potentially Contaminating Activities and Potential Environmental Concerns

Potentially Contaminating Activities were identified within the historical Phase I study area. These include the retail fuel outlet at 3869 Innes Road, immediately adjacent to the site, to the east, and the suspected furnace oil leak around the aboveground fuel oil storage tank in the basement of the building at 3843 Innes Road.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are areas of potential environmental concern on the subject site. The presence of potentially contaminating activities was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

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8.0 CONCLUSIONS AND RECOMMENDATIONS

Assessment

A Phase I – Environmental Site Assessment was carried out for the property at 3817, 3819, 3835 and 3843 Innes Road 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 adjacent 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 has been used for residential purposes since its development in the 1950s/1960s. Similarly, most of the neighbouring properties have been used for residential purposes since their development. The exceptions are the retail fuel outlet (RFO) to the east and the commercial/retail development to the south. The presence of a retail fuel outlet to the east of the subject site, at the intersection of Innes Road and Belcourt Boulevard, does result in an area of potential environmental concern on the eastern part of the subject property.

Following the historical review a site visit was conducted. The site is occupied by two (2) three-storey residential apartment buildings and two (2) residential dwellings. The buildings at 3817 and 3819 are not currently heated and do not contain any heating appliances. Both buildings were formerly heated by natural gas fired forced air furnaces. The building at 3835 Innes Road is not currently heated, but does contain a natural gas fired forced air furnace on the basement level. The building at 3843 Innes Road is not currently heated. The building was formerly heated with electrical baseboard heaters, and prior to electric heaters, the building was heated with fuel oil. The heating oil storage tank is present in the basement, and some discolouration was present in the gravel around the tank and furnace. The staining around the fuel storage was identified as a potentially contaminating activity and an APEC.



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Recommendations

Based on the construction dates of the buildings, asbestos-containing materials and lead-based paints are potentially present. It is recommended that a designated substances survey (DSS) be completed on the subject buildings prior to their demolition.

Based on the results of this Phase I Environmental Site Assessment, several PCAs were identified in the Phase I study area, resulting in Areas of Potential Environmental Concern (APECs) and in our opinion, a Phase II - Environmental Site Assessment is required for the property.



9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of 7053525 Canada Inc. Permission and notification from 7053525 Canada Inc. and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Anna Graham, M.E.S.

Mark S. D'Arcy, P.Eng.

M. S. D'ARCY 90377839

Report Distribution:

- 7053525 Canada Inc. (2 copies)
- Paterson Group (1 copy)

Residential Properties – 3817, 3819, 3835 and 3843 Innes Ottawa, Ontario

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).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MOECC Freedom of Information and Privacy Office.

MOECC Municipal Coal Gasification Plant Site Inventory, 1991.

MOECC document titled "Waste Disposal Site Inventory in Ontario".

MOECC Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MOECC Water Well Inventory.

Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I - Identification of Sites", prepared by Golder Associates, 2004.

The City of Ottawa Historical Land Use Inventory.

Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

The City of Ottawa eMap website.

Local Information Sources

Current Plan of Survey, prepared by Annis, O'Sullivan, Vollebekk Limited, 2013. Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3532-1 - SITE PLAN

DRAWING PE3532-2 - SURROUNDING LAND USE PLAN

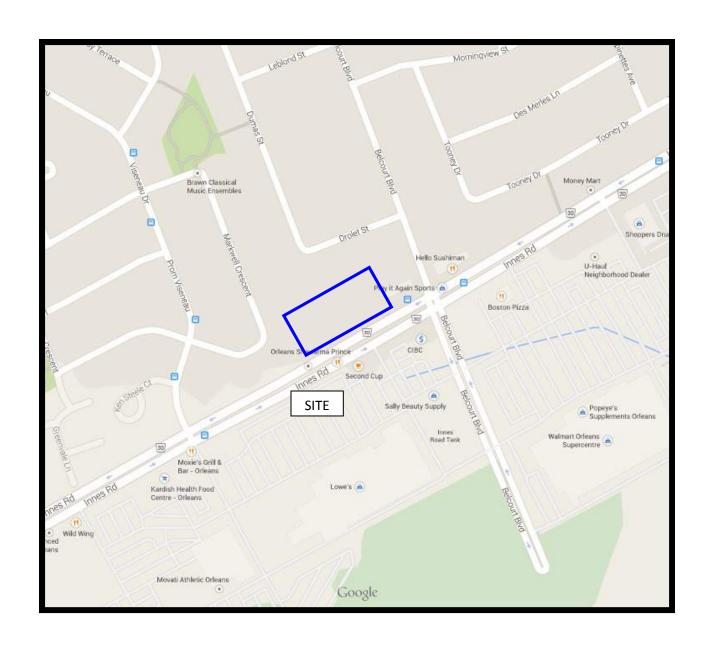


FIGURE 1 KEY PLAN

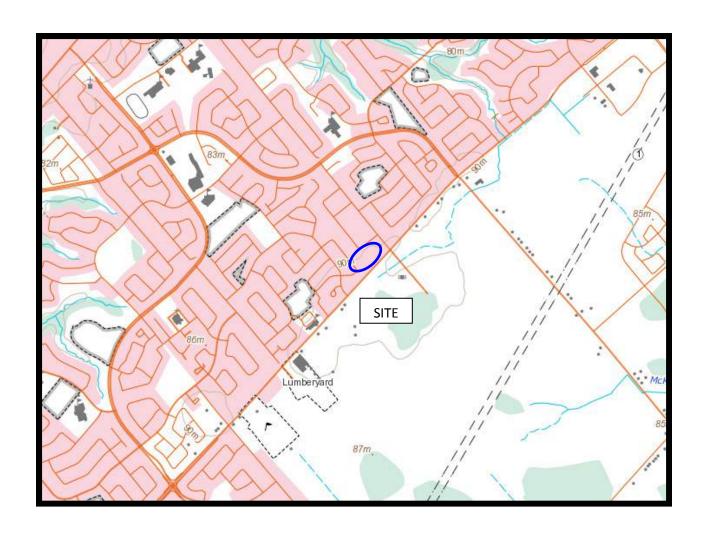
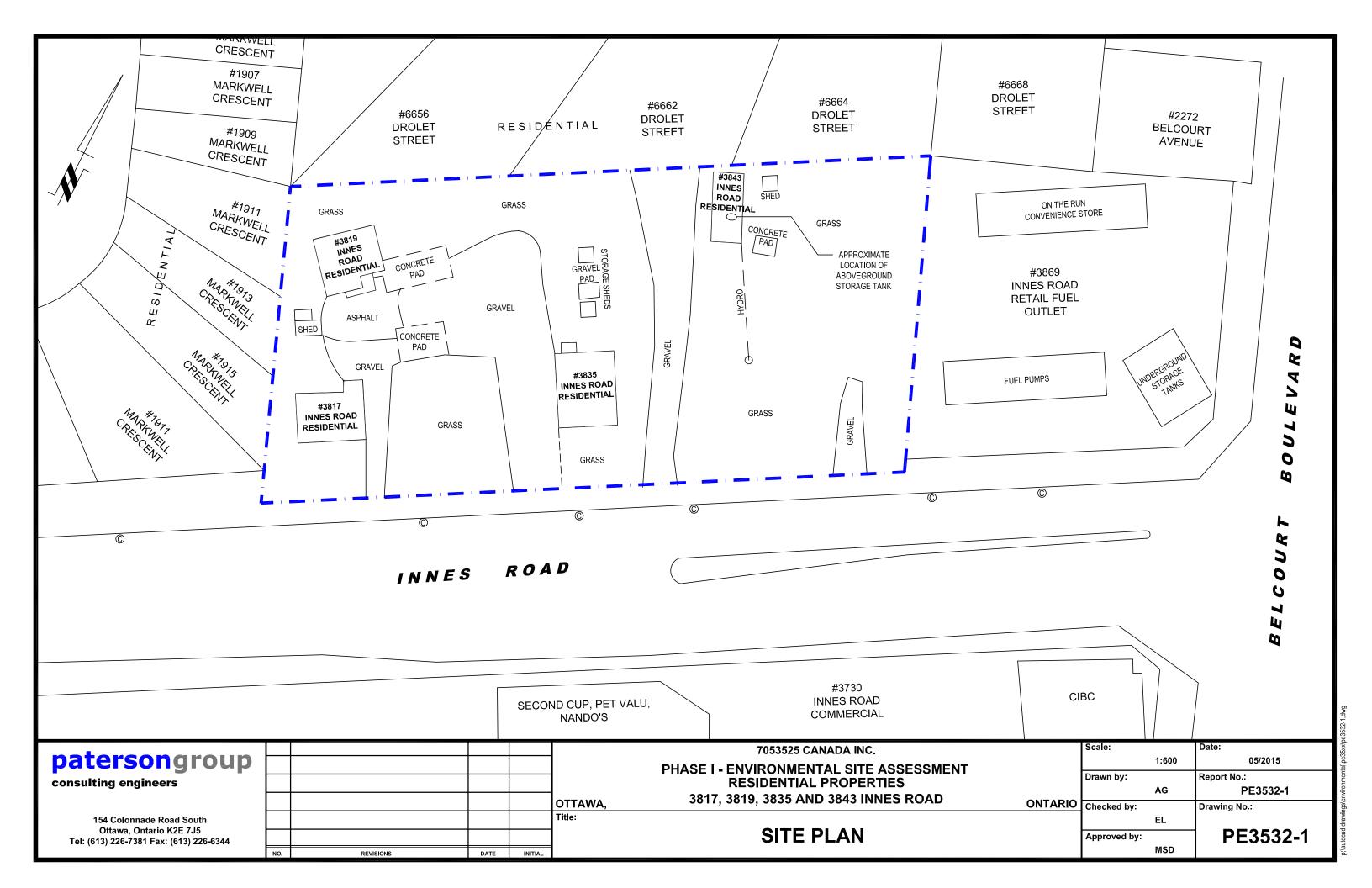
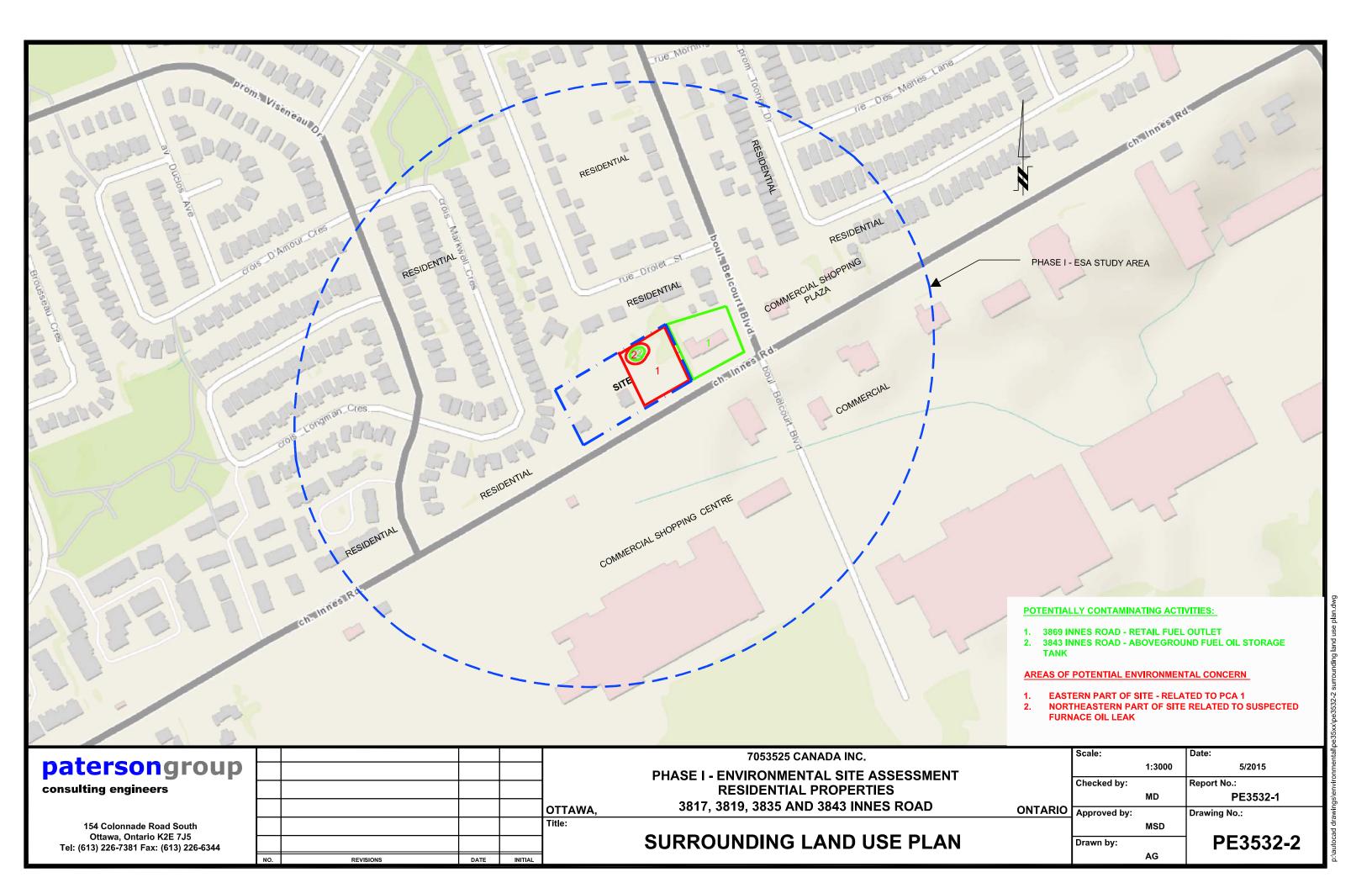


FIGURE 2 TOPOGRAPHIC MAP



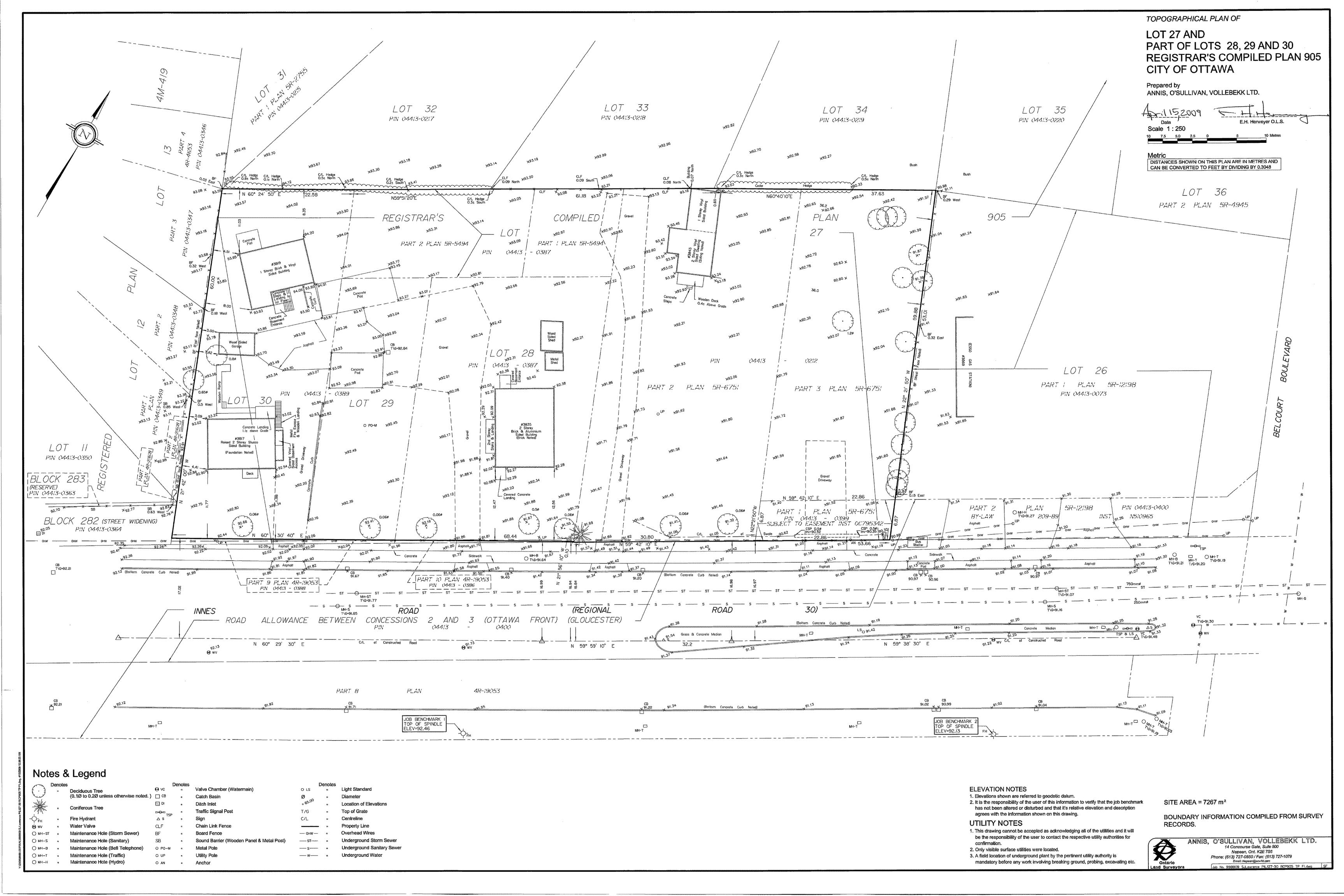


APPENDIX 1

CURRENT PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

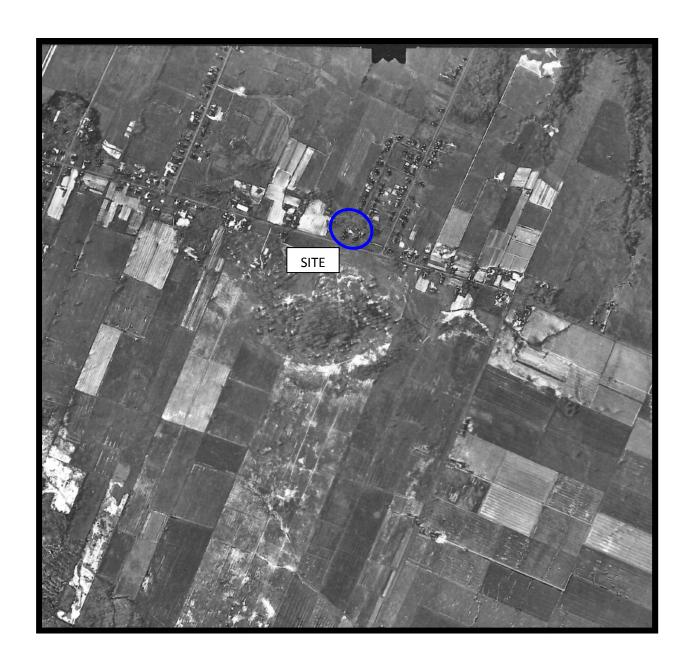




AERIAL PHOTOGRAPH 1948



AERIAL PHOTOGRAPH 1958



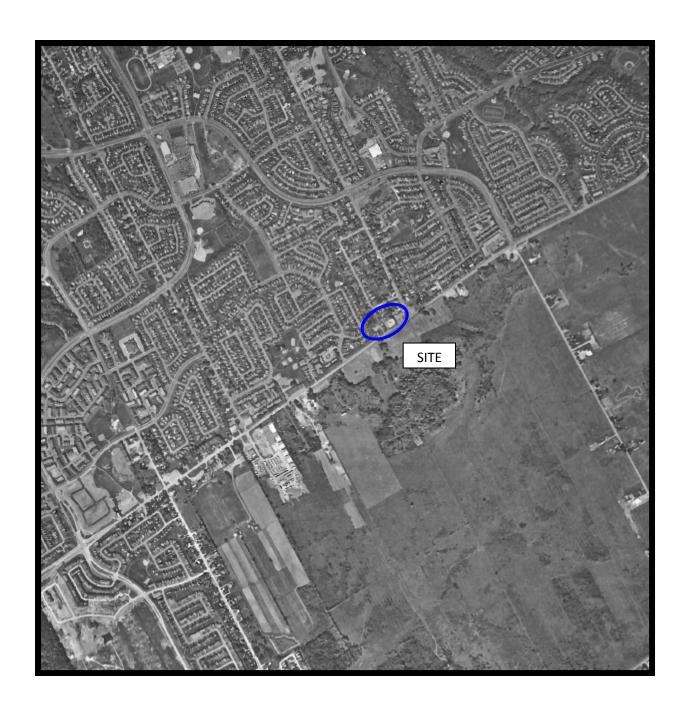
AERIAL PHOTOGRAPH 1967



AERIAL PHOTOGRAPH 1973



AERIAL PHOTOGRAPH 1985



AERIAL PHOTOGRAPH 1994

patersongroup ____



AERIAL PHOTOGRAPH 2002

patersongroup -



Photograph 1: View from the driveway of the subject site at 3817 (left) and 3819 Innes Road, looking west.



Photograph 2: View of 3835 Innes Road, looking south. Innes Road and commercial development behind.

Site Photographs

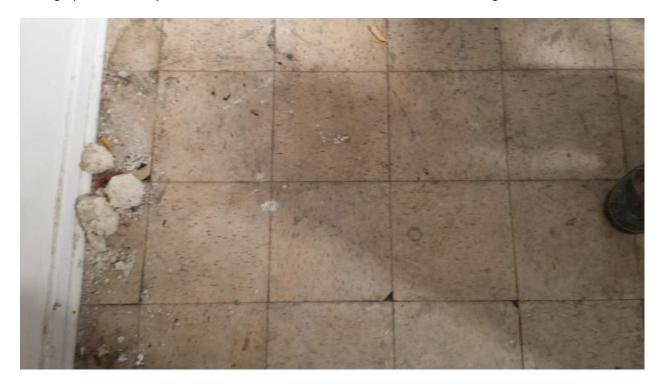
PE3532

3817, 3819, 3835, 3843 Innes Road, Ottawa, ON

May 6, 2015



Photograph 3: View of yard with sheds beside house at 3819 Innes Road, looking south.



Photograph 4: Vinyl floor tiles at 3835 Innes Road.



Photograph 5: Exposed pipe and possible asbestos-containing material in the basement level of 3835 Innes Road.



Photograph 6: Gravel pad and shed at 3835 Innes Road, looking east. The building at 3843 is visible at top left, and the adjacent retail fuel outlet at 3869 Innes Road is visible at the top.



Photograph 7: View of 3843 Innes Road, looking north.



Photograph 8: Interior wall at 3843 Innes Road, finished with a potential asbestos-containing plaster material.





Photograph 9, 10 and 11: Possible asbestos-containing flooring materials at 3843 Innes Road, in poor condition.



Photograph 12: Aboveground storage tank and furnace (at right) in the basement at 3843 Innes Road.

3817, 3819, 3835, 3843 Innes Road, Ottawa, ON





Photograph 13: Yard space behind 3817 Innes Road, between the shed to the right and the access ramp (unseen to the left), looking west. Buckets are labeled as containing paint and petroleum oil.

APPENDIX 2

MOECC FREEDOM OF INFORMATION RESPONSE TSSA CORRESPONDENCE MOECC WATER WELL RECORDS HLUI RESPONSE

Ontario INCIDENT REPORT

Ministry of the **Environment**

Reference Number:

8824-6W6RUR

File Storage Number:

Legislation Non-Compliance

Module;

Status:

Program

Not Determined

Module Type: (doc link)

Cross Reference:

5114-6W6RSB

Created by:

Coreen Daley

Originating Document **Date Created:**

2006/12/04

Date Completed:

Bring Forward Date:

Bring Forward Reason:

2006/12/04

Closed Ticket Issued

Outreach/Pollution prevention

Activity:

Pollution Prevention Projects

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

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

Yes

To be determined

Click here for Guidance

Caller or PO Information

Reported By:

First Name

Last Name

Coreen

Daley

Contact Mailing Address

Municipality:

Scarborough

Reported By:

MOE Information

MOE Response:

Date & Time Reported to MOE:

2006/12/04 15:16

Office Receiving Incident

Vehicle Emissions Enforcement Unit

Report:

Incident into Received By:

Coreen Daley

Planned Field Response

Site Region:

Eastern

Date & Time of MOE Arrival

at Scene:

Master Incident Report

Number:

SAC Action Class:

Non-Standard Procedure:

No

ERP Call-out Initiated:

Client(s)

Information

Show Map

Scott A. Fuller

Mailing Address: 1-3835 linnes Rd, Ottawa, Ontario, Canada, K1C 1T1

Physical Address: Concession., Plan., 1-3835 Innes Rd, Ottawa, City, Ontano, Canada, K1C 1T1

Telephone: (999)999-9999

Client # 7051-6W6ROA, Client Type: Individual

Site(s)

Information

Show Map

VEEU, Ollawa

Address Concession , Plan , Ottawa Site, Ottawa City

District Office Ottawa Site # 5656-5MAPA2

Incident Information

Incident Summary:

PON

cannot be longer than 60 characters

Incident Description:

EPA

Links & Comments:

Astantinolists States

Date & Time of Incident

2006/11/18 21 17

Source Type:

Sector Type:

Nearest Watercourse:

Watershed Category

Code:

Environmental Impact:

Nature of Impact:

Incident Cause:

Incident Reason:

Damaged Party:

No

Contaminants Table

Contaminant Name

UN# Code

Limit

Quantity

[units]

[freq]

Controller of Material:

Estimated Clean Up Cost:

Owner of Material

Who Cleaned Up:

% Clean Up:

%

Agencies Involved:

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?

Yes

No

To be determined

Voluntary / Mandatory Compliance Items

Type Parent RetNo Work Summary (may be truncated)

Date

AttainList

Offence(s)

Suspected Violation(s)/Offence(s): Act - Regulation - Section, Description (General Offence) 11 EPA Reg. 361/98 = 7 (3). Operate motor vehicle that contravenes emission standards

Provincial Officer:

Name:

Badge No:

Work Unit

District/Area Office

Date:

Signature:

District/Area Supervisor:

Name:

Work Unit:

District/Area Office:

Date:

Signature:

Environment

♥ Ontario ○CCURENCE REPORT

Material 3: Amount :

Location of Occurence			Source:	52/6° \$7° \$ A
CUMBERLAND TWP		ONE NO INC.	RESIDENTIAL SEPTIC S	CA215M
3835 INNIS ROAD	CUMBERLAND	CWIARIO	Sector: RS Source, WD	SIC
Reg. 4 Dist: Q1 Mumcipalit	ly: 20601		UTM: N: [] E: [] Zone: []	
Entered:	ORIS No.		Abstracts:	Diaries
Gric. Cu.	9340000890			
Received By: TRUDY HEREKENS			Batch 1018	1, E, B, No.
Осситенсе Туре	Subtype:		Occurence Date:	
Č	05			
Work Plan			Occurence Time:	
			Report to MOE: 1993/0 MOE at Scene: 93/07/0	
			Assigned To:	DEBBIE HANNA
	s.21		, m	
			ERP Contacted: Callout: [] ERP Name:	NSP: []
Syn: Brief Summary: 3835 INNES ROAD COMP HE THINKS THERE IS A PE	LAINT OF ODOUR OF ROBLEM WITH SYSTI	N TANK PUMPEI EM SYSTEM (THEY PUMPED SEWAGE ON GROUND :
If there are related reports	, record initial/maste	r ORIS No. here	>>	
Followup Action: X Abater BF Date: NONE - CLOSE FILE				
File Closed: X Abatement:	IEB Other			
Suspected Violation: Report Prepared By:		Date: 9/07/93	IEB Investigator:	IEB BF Date
DEBBIE HANNA		Date:	Reviewing Officer:	Date
Approving Officer GEORGE CLARKE		707/93	***************************************	
Specify number(s) for rou			l	Continued [] Yes
Specify number(s) for cop 1. Investigator/E.O. 4. Reg. Dir. /Mgr.	oy distribution 2. D: O. /F	[] [] [] [] ile		7. Other
SAC Action Class: 1: 2:		**************************************		
#454* T = = =				Code :
Material 1:				UN No.:
Amount : Material 2:				Code:
Amount :				UN No.:

Code: UN No

Code Cause Reason. Code Person in Control: Waste GenNum: Owner Waste GenNum : Agencies Involved Clean up and Restoration Carried out by: [v] Controller [v] Owner [N] Other % Cleaned up: **Estimated Cost:** Were Directions or Approval Given Under EPA Part X [v] Regulation 362 [v] Manifest No. Code Waste Class: Hauler Code . Disposal Site: Code ...: Environmental Impact: Nature of Impact: Code :::: People/Business Damaged (Other than to Owner/Controller) Nature of Damage: Code . . :

Anna Graham

From: plal@tssa.org on behalf of Public Information Services [publicinformationservices@tssa.org]

Sent: April-10-15 10:54 AM

To: Anna Graham

Subject: Re: Records search request

Hi Anna:

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record:

3869 Inness Road, Orleans has record of 7 active underground fuel tanks.

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a cheque made payable to TSSA.

Thank you and have a great day!

Prem

Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority 14th Floor, Centre Tower 3300 Bloor Street West Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772

Email: publicinformationservices@tssa.org

Web Site: www.tssa.org

On Fri, Apr 10, 2015 at 10:46 AM, Anna Graham < AGraham@patersongroup.ca> wrote:

Good morning,

Ottawa, ON?
3730 Innes Road
3817 Innes Road
3828 Innes Road
3835 Innes Road
3843 Innes Road
3869 Innes Road
3880 Innes Road
2283 Belcourt Boulevard
Thank you!
Anna Graham, B.Sc., M.E.S.
patersongroup

Could you please complete a search of your records for underground/aboveground storage tanks, historical

solution oriented engineering

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Tel: (613) 226-7381 Ext. 228

Fax: (613) 226-6344

Email: agraham@patersongroup.ca

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information

that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

UTM 182 4597185 E 15 R 15:013 2191016 N



Elev. 14 R 103001

The Well Drillers Act

Basin |2|5| | | |

Department of Mines, Province of Ontario OCICAL BRANCH OF PARTMENT OF MINES

Pipe and Casing Record			Pumping Test		
Casing diameter(s) Length(s) of casing(s) Length of screen Type of screen Pupe of pump Capacity of pump Sta	aration of ' imping Rai rawdown . atic level o	apacity Test te f complete	145 4 50 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	for Ind	
Depth of pump setting	well a gra	vei-waii ty	per,		
	r Record				····-
Kind (fresh or mineral)	EA	R	Depth(s) to Water Horizon(s)	Kind of Water	No. of Fer Water Ris
How far is well from possible source of contamination?	<i>y.</i> A-/X	, L			
Well Log Drift and Bedrock Record	From	To		tion of Well	
	From Oft.	To JAn.	Loca In diagram belo from road and lo	w show distan	ices of we
Drift and Bedrock Record	<u> </u>		In diagram belo from road and lo	w show distan	ices of we

The Ontario Water Resources Act

ATER WELL RECORD

MINISTRY OF THE ENVIRONMENT

1514345 COUNTY OR DISTRICT LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST COMMON MATERIAL GENERAL COLOUR 3 10 3 100 DO031602 1 DO10141217 0100215 1 1 1 1 1 1 1 1 1 1 1 1 32 CASING & OPEN HOLE RECORD 51 41 WATER RECORD WATER FOUND AT - FEET KIND OF WATER DEPTH TO TO OF SC#SEN PRESH 1 () SULPHUR
2 () SALTY 4 () MINERAL **60**80 Z 3 GALVANIZED 05 0020 * | FRESH * | SULPHUS * | SALTY * | MINERAL J □ CONCRETE
OPEN HOLE **PLUGGING & SEALING RECORD** DEPTH SET AT . FEET 17-58 1 | STEEL MATERIAL AND TYPE 1 | FRESH 2 | SULPBUR 2 Z 🗍 GALVANIZED CONCRETE 0100 4 💢 OPEN HOLE 1 🗌 STEEL 1 | FRESH 3 | SULPHUR 2 2 | SALTY 4 | MINERAL 27-30 22-23 Z 🔲 GALVANIZED 1 | FRESH 3 | SULPHUR 2 | SALTY 4 | MINERAL 10-11 60 PUMPING RATODOO" LOCATION OF WELL DO 17-18 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. WATER LEVEL END OF PUMPING ! [] PUMPING. WATER LEVELS DURING Orelson 1,00" 32-34 25-28 29-31 1 CLEAR RECOMMENDED PUMP OF 5 RECONMENDED SHALLOW CLOSEP GPM. / FT. SPECIFIC CAPACITY WATER SUPPLY FINAL 2 D OBSERVATION WELL
3 D. TEST HOLE
4 D RECHARGE WELL ABANDONED, POOR QUALITY
DESTINISHED **STATUS** OF WELL 1 STOCK S COMMERCIAL
MUNICIPAL STOCK
I IRRIGATION WATER O PUBLIC SUPPLY INDUSTRIAL COOLING OR AIR CONDITIONING USE 9 🗆 NOT USED C OTHER # D BORING CABLE TOOL **METHOD** ROTARY (CONVENTIONAL)
ROTARY (REVERSE) 7 DIAMOND # [] BOTARY (AIB) DRILLING PATE 2 8 10 74 OFFICE USE ONLY 1517 NAME OF DRILLER OR LICENCE NUMBER W١ 0.55,53 MINISTRY OF THE ENVIRONMENT COPY

UTM / /8 2 4519 6106 E NOV 21 1952 F91R | 5101312191810 N GEOLOGICAL BRANCH Elev. 9 R 0300 DEPARTMENT of MINKS The Well Drillers Ad Department of Mines, Province of Ontario Well Record Water Cloucester xcluding pump)..... Pumping Test Pipe and Casing Record Length(s) of casing(s)... Pumping level ... 9 0 Land Type of screen..... Length of screen..... Duration of test..... Distance from top of screen to ground level..... Distance from cylinder or bowls to ground level..... Is well a gravel-wall type?..... Water Record Kind (fresh or mineral)..... Quality (hard, soft, contains iron, sulphur, etc.) . . . Appearance (clear, cloudy, coloured)..... fresh. For what purpose(s) is the water to be used?... and gordening How far is well from possible source of contamination? ... 5.04 What is the source of contamination?... Enclose a copy of any mineral analysis that has been made of water.. Well Log Location of Well Overburden and Bedrock Record From То 0 ft.ft. In diagram below show distances of well from road and lot line. Indicate north by arrow

Situation: Is well on upland, in valley, or on hillside?

Drilling Firm.

Address.

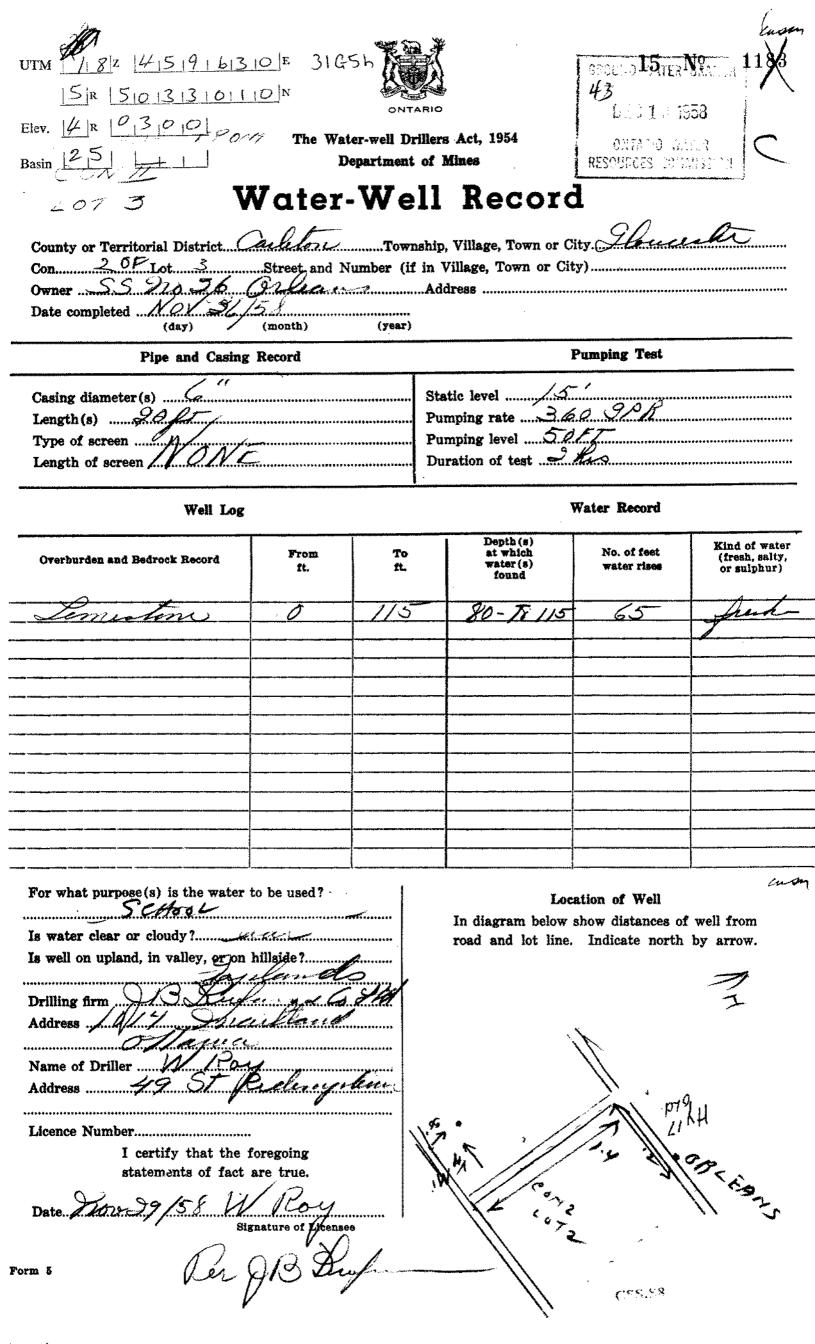
Name of Driller

Date.

FORM 5

Signature of Licensee

Carried

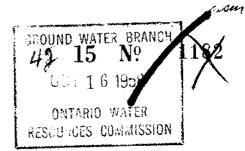


UTM 1/18 | 41519171210 | E



The Water-well Drillers Act, 1954

Department of Mines



Basin 25 1

Elev. 9 R 013010

Water-Well Record

				Vecor		and the same of th
	cal to	70	hip, V	fillage, Town or Citage, Town or Citage, Town or Citages	ty glave	The
			n Vil	lage, Town or Cit	y) Crile	
				ess CYTEL	transition Li	311
Date completed(day)	(month)	Ø	- 58	i		
Pipe and Casing	Record			·	umping Test	
G : 11 - 14 - 14 - 14 - 14 - 14 - 14 - 14			O4.43	Javal <i>[6 1</i>	1x bran	1st
Casing diameter(s)	******************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pumr	level	150 anla	la ha
Type of screen	No		Pump	ing level	Z.,	/
Length of screen			Dura	tion of test	1 four	, ************************************
Well Log				V	Vater Record	
Overburden and Bedrock Record	From ft.	To ft.		Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
gravel and clay		6		45 PT	64 /	fresh
	<u> </u>	74				
Mark Hone	<u> </u>	7 9			•	- <u> </u>

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						•
]-		12,67
For what purpose(s) is the water t	o be used?	!		Loca	tion of Well	
Is water clear or cloudy?		***********		n diagram below s		
Is well on upland, in valley, or on l				oad and lot line.	indicate north	by arrow.
valley				,		\
Drilling firm	Three y		1	.W		1
Address		***********		. J	Ì	
Name of Driller Af 2024	91/4	04		Wer .		Maria de la companya
Address			ļ	<i>y</i>	The state of the s	
	*************	********	1		1	***
Licence Number 46, 19		***************************************		*	0 1000	
I certify that the f statements of fact:		***************************************			3	9 1
,	10 11 UC		+/	HACKBUR	M	
Date Of 10 Spren		auf	1	77 10 1	0	//
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Form 5

 $\mathbf{CSS}, \mathbf{SS}$

UTM / 8 Z 4597140 E



31G5h

DIVISION

WATER RESOURCES

ONTARIO WATER RESOURCES COMMISSION

15 R 510 13 B 13 11 10 The Ontario Water Resources Commission Act

Rasinty or Distric	ct L.	1

Carleton

Township, Village, Town or City Gloucester

8000 C

OWRC COPY

Date completed 29 October 1964.

	dres	dress Orleans, Ont.									
Casing and Screen Record		Pumping Test									
Inside diameter of casing 2"	Static level 11										
Total length of casing 531	Test-pumping rate 6										
Type of screen	Pumping level 25'										
Length of screen	Duration of test pumping 2 hrs.										
Depth to top of screen	Wa	ater clear or cle	oudy at end of	test clear							
Diameter of finished hole	Re	commended p	numping rate	6	G.P.M						
	wi	th pump settin	g of 25	. feet belo	w ground surfac						
Well Log		-W	W-1	Wate	r Record						
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)						
blue clay		0	46	_							
grey sand		46	52								
grey limestone		52	62	62	fresh						
For what purpose(s) is the water to be used? domestic		In diagra	Location m below show	of Well distances of we	ll from						
Is well on upland, in valley, or on hillside? hillside Drilling or Boring Firm G.Charbonneau, Diamond & Cable Drilling, Address ".R.# 1, Box 194, Orleans, Ont. Licence Number 1418 Name of Driller or Borer Roland Wolfe Address Clarence Criek, Ont. Date 29 October 1964. (Signature of Licensed Drilling or Boring Contractor)	10 THE	road and	lot line. Inc	licate north by	MONIPETITAMA						
Form 7 15M-60-4138	/	non TOE	The Carlo		;						

and and WATER BRN UTM / 8 z 4519171710 E 05 R 5101313131815 N ONTARIO WATER The Ontario Water Resources Commission Act, 1957 URCES COMMISSION Basin 251 WATER WELL RECORD County or District CARLETON Township, Village, Town or City GLOUCES TER Lots CONSLot 19 DUNGS SUBDate completed 10 FIK 59
Cuple HEAR! CONS Address OBLEANS ONT (print in block letters) **Pumping Test** Casing and Screen Record Inside diameter of casing. Total length of casing 51 Pumping level 35 Type of screen Duration of test pumping 2 HRS Length of screen Water clear or cloudy at end of test CLEAR Depth to top of screen Recommended pumping rate 4 G.P.M. Diameter of finished hole 9 Water Record Well Log Depth(s) Kind of water (fresh, salty, sulphur) at which water(s) No. of feet water rises From Overburden and Bedrock Record found 45 4/5 ERESH 416 50 Location of Well For what purpose(s) is the water to be used? DOMES TIC. In diagram below show distances of well from χ road and lot line. / Indicate north by arrow. Is well on upland, in valley, or on hillside? UPLAND MINOND DRILLER ARTESIAN WELLS Address MODERN HOME BUILDERS ORLEANS, ONT. R.R. 1 Navan 98 - 25 Licence Number 164 Name of Driller & CHARBONNEAU Address OBLEHNIS GNIT rss.

1321448 13URM

Form 5 15M-58-4149

GROUND WATER BRAN UTM 182 459 7190E /UP 1 8 195**9** 5 R (510131314115)N 14R 021951 ONTARIO WATER The Ontario Water Resources Commission Act, 1957ESOURCES COMMISSION Basin/25WATER WELL RECORD County or District LARLE TON Township, Village, Town or City Clouce 5/ER Con 2 OF Lot BART 2 Date completed the first 1959

Owner 2015 True True Address On FAMS ONT **Pumping Test** Casing and Screen Record Inside diameter of casing Static level Total length of casing. 48 Test-pumping rate & G.P.M. Pumping level 25 Type of screen Duration of test pumping 2 HPS Length of screen Water clear or cloudy at end of test Depth to top of screen Recommended pumping rate _______ C.P.M. Diameter of finished hole 2 Water Record Well Log Depth(s) at which water(s) Kind of water (fresh, salty, sulphur) No. of feet water rises From ft. Overburden and Bedrock Record 44 FRESH 43 For what purpose(s) is the water to be used? Location of Well DOMESTIC In diagram below show distances of well from road and lot line. Indicate north by arrown Is well on upland, in valley, or on hillside? UPLAND Drilling Firm ... C. Charles CALEANS, O.M. Licence Number 16 4/ Name of Driller SERHRB CHARBONAICA Address Interes All Mal 11 (Signature of Licensed Drilling Contractor) CBS-58 Form 5 15M-58-4149 BLACK BURA

UTM 1 182 45 9 1810 10 E 15 R 503333395 N Elev. 4R 012195 ONTARIO WATER The Ontario Water Resources Commission Act, 1957 RESOURCES COMMISSION WATER WELL RECORD Township, Village, Town or City 640CESTER County or District.... Date completed 5 5-9 (day month year) CONSTRUCTION Address ORLEHMS CO **Pumping Test** Casing and Screen Record Inside diameter of casing Static level Test-pumping rate & G.P.M. Pumping level 25 Type of screen.... Duration of test pumping 21185 Length of screen Water clear or cloudy at end of test CLEMR Depth to top of screen Diameter of finished hole 9'' with pumping level of /0 Water Record Well Log Depth(s) at which water(s) Kind of water (fresh, salty, sulphur) No. of feet To ft. From Overburden and Bedrock Record found 1-18/5 415 Location of Well For what purpose(s) is the water to be used? DONESTIE In diagram below show distances of well from road and lot line. Indicate north by arrow Is well on upland, in valley, or on hillside? OPLANIS Drilling Firm G. CHARBONNEAU DIAMOND DRILLER ARTESIAN WELLS MODERN HOME BUILDERS ORLEANS, ONT. R.R. 1 Navan 97 - 25 Licence Number 144 Name of Driller & CHAR BON A 15 AU ORLEIANIS UNT Form 5 15M-58-4149 BLACK BURN

UTM 1/18/2 41519181015 E 3165h | | 5|R | | 510|3|3|3|7|0|N

15 Nº

GROUND WATER BRANCH

DEG 6 1960

Basin, 251

Elev | 4 R | 0 | 2 | 9 | 5 | The Ontario Water Resources Commission Act, 1957

ONTARIO WATER

			RECOR	Company of the state of the sta	and the second s						
County or District Carleton Carleton											
Con2 OF, STeverstern Lot		lress	Orléans	month	year)						
Casing and Screen Record			Pun	nping Test							
Inside diameter of casing 2"	.,,.,,	. Static l	evel 10'								
Total length of casing 44.			Test-pumping rate 8 G.P.I								
Type of screen	*************************		ng level 201								
Length of screen	,,,,	l l	on of test pumping								
Depth to top of screen		į.	clear or cloudy at								
Diameter of finished hole 2"			mended pumping h	•							
Well Log			Wa	ter Record							
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)						
clay BLUE	0	40	44!								
gravel	40	44		34!	frech						
		1	ļ								
For what purpose(s) is the water to be used	?		Local	ion of Well							
domestic	.,,,		In diagram below	show distances	of well from						
Is well on upland, in valley, or on hillside	oupland		road and lot line	. Indicate norti	a by arrow.						
					ş						
Drilling Firm G. Charbonneau, Diamond	Drilling				74. 17. 7						
R.R. # 1. Box 194. Orl					>						
Address		-	100	27	N.						

Licence Number 454			40 💆								
Name of Driller G. Charbonneau			1012	9	•						
Address R. R. # 1, Box 194, Orlea	ns, Ont.		¥ 1								
Date August 10, 1960											
(Signature of Licensed Drilling Contract	or)		MONTATO	57543							

2-7 28

 $Cc\bar{c}^*\bar{c}^*\bar{c}^3$

ALTON STOR

GROUND WATER BEANCH UTM 1/82 4519181315 E 5 R 50131312170 N /JGB 1 B 1959 Elev, 4R 031010 The Ontario Water Resources Commission Act, 1857ARIO WATER Basin 125 RESOURCES COMMISSION WATER WELL RECORD CON IL OF County or District CARLE TON Township, Village, Town or City GLOCESTES

Cop Stot Had Lot 2001 Lot Apt to Such word Date completed (day month year)

Owner 1904 CONS TRUCTION Address ORLEANS Const **Pumping Test** Casing and Screen Record Inside diameter of casing. Static level Test-pumping rate 5 G.P.M.
Pumping level 5 7 Total length of casing 59 Type of screen Duration of test pumping 9 HR 5 Length of screen Water clear or cloudy at end of test Depth to top of screen Water Record Well Log Depth(s) at which water(s) Kind of water (fresh, salty, sulphur) No. of feet water rises From ft. Overburden and Bedrock Record found FAE5H 54 Location of Well For what purpose(s) is the water to be used? DONESTIC In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? UPLAND Drilling Firm A. F. G. CHARRCHMEAU Address MORERY ADMINISTRATION OF THE ADMINIS OBLEANS, ONT. 'R.R. 1 Nava 117 - 35 Licence Number / 6 4/ Name of Driller G CHAR Bank NESS Address OBLANDSONE Black Burn Form 5 15M-58-4149

GROUND WATER BRANCH Ontario Water Resources Commission Act ONTARIO WATER Elev. 4R 0300 RESOURCES COMMISSION Township, Village, Town or City...... Gloucester Lot part lot 2 Date completed September 19th 1961 ddress Orleans, Ont. **Pumping Test** Casing and Screen Record Static level 3 Inside diameter of casing 2" Test-pumping rate 7. G.P.M. Total length of casing. 16 Pumping level 20 Type of screen Duration of test pumping 2 hrs. Length of screen Water clear or cloudy at end of test clear Depth to top of screen.... Recommended pumping rate 7 G.P.M. Diameter of finished hole 2" with pump setting of 20..... feet below ground surface **Water Record** Well Loa Depth(s) at Kind of water From (fresh, salty, sulphur) which water(s) Overburden and Bedrock Record found O 14 blue clay 33 fresh 14 33 limestone Location of Well For what purpose(s) is the water to be used?domestic.... In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm F G CHARBONNEAU ORLEANS, ONT. R.R. 1 Navan 9R - 25 Licence Number224.... Name of Driller or Borer G. Charbonneau Address R. R. # 1, Box 194, Orleans, September 19th, 1961 (Signature of Licensed Drilling or Boring Contractor) Form 7 15M Sets 60-5930

MIS MOOR BLACKSUSTARE

OWRC COPY



Ministry of the Environment

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

Abandonment (Angn599) RH#5

Master Well Record for Cluster Well Construction

@ Queen's Printer for Ontario, 2006

Regulation 903 Ontario Water Resources Act

Master Well Own	ner's and I	Land Owner's Info		090.7	1 1	Page 1 of 2
First Name		Last	Name			
Ampena Mailing Address (Str	reet Number	r/Name RR)	Municipality			Province Prostal Code Prejeptione No. (inc. area code)
90 W/vr	tord	Drive		ronto	,	ON M3/C/1/K/54/1/G4/4/1786/
en automate Stein aberrater attende en getalle automate in en en alle type en		n of the Master We	ell in the Cluster			
Address of Well Loc	•	t Number/Name, RR)	Tow	vnship		Lot Concession
County/District/Mun	icipality	> IZOCCO	City	/Town/Villag	ie	Province Postal Code
(1773 # One of the state of the	7				μα	Ontario
	Zone Eastir ストド		13141915 GO	Jnit Make	Model	Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify
		Materials (see inst	ructions on the ba	ck of this fo	orm)	Hole Details
•	Common aterial	Other Materials	General Description	Depth From	(<i>Metres)</i> To	S) Depth (<i>Metres</i>) Diameter • From To (<i>Centimetres</i>)
2	o o . (o		•		10	Trom 10 (Cenametres)
<u>nem</u>	<u>nove</u>	1	and scree	1 1		
1 6	Khil	boreholes	with be	ntoni	te	
tro	<u>m</u> 8	1 m belo	ou surta	ce to		
Sur	face	as per	on moe	Reg. 9	103	
				0		Water Use
	_					Public Industrial Not used Other, specify Domestic Commercial Dewatering
						Livestock Municipal Monitoring
						☐ Irrigation ☐ Test Hole ☐ Cooling & Air Conditioning
INDER THE SECOND		·	<u> </u>			Method of Construction ☐ Cable Tool ☐ Air Percussion ☐ Digging
	·····					☐ Rotary (Conventional) ☐ Diamond ☐ Boring
		V			; 	☐ Rotary (Reverse) ☐ Jetting ☐ Other, <i>specify</i> ☐ Rotary (Air) ☐ Driving
						Status of Well
		,				☐ Test Hole ☐ Abandoned, Insufficient Supply
						Replacement Well Abandoned, Poor Water Quality Dewatering Well Other, specify
				1	: Y : : : : : : :	Alteration (Construction) Abandoned, other, specify m.w
						No Casing and Screen Used Static Water Level Test
		Construction De	taile .			Open Hole Service Serv
Inside Diameter		Material	Wall	1 ' '	Metres)	· 11
(Centimetres) (si	teei, piastic,	fibreglass, concrete, g	alvanized) Thickne	ss From	То	Galvanized Steel Fibreglass Concrete Plastic Outside Diameter (Centimetres) Slot No.
					_ 	
71-7-100 Albania Alban		· · · · · · · · · · · · · · · · · · ·	11.0-11.0 III.0 II			Water Details
						Water found at Depth Kind of Water
						Water found at Depth Kind of Water
	····	Space/Abandonmer				Metres Gas Fresh Salty Sulphur Minerals
Depth Set at (<i>Metres</i>	i)	Type of Sealant L (Material and Typ		Volume		}
0 8.1	Be	otonite		0.0	5	DisinfectedYesNo If no, provide reason: Date Master Well Completed
WATER AND THE PARTY OF THE PART		——————————————————————————————————————	**************************************			(yyyy/mm/dd) 2010/06/60 2
**************************************	<u> </u>					Cluster Information (Please also fill out the additional Cluster Well
					·	Total Wells in Cluster Information for Well Construction for each parcel of land and cluster.) Please indicate Number of Cluster Wells
						Information Log Sheets Submitted
		***************************************				Total Wells on this Property
	<u></u>	•••				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)
	• •	actor and Well Tech				1 Laure Jan 2011/12/2)
Business Name of We			i.	ontractor's Lice ターム	nce No.	Master Well Owner's/i and Owner's consent to use Cluster Form
	reet No./Nar	ing Esta	Municipality			
410 rue	prir	ncipale	Grenville	-sur-10	i-Koup	
	Postal Code	,		ud in	المما	Audit No. M 08713 Well Contractor No.
Bus. Telephone No. (inc	c. area code)	Name of Well Technici	an (Last Name, First	Name)		Date Received (yyyy/mm/dd) Date of Inspection (yyyy/mm/dd)
X119747/	الحسم والما	**	<i>F</i> 2		1	- 1
Well Technician's License	.469	Downing	<u>, Bruce</u>	uhmittad /	company delails	JAN Z 4 ZUIL
Well Technician's Licence	.469		<u>, Bruce</u>	ubmitted (yyy	y/mm/dd) 7 (

Ministry's Copy



Ministry of the Environment

Well Tag No. for Master Well (Print Well Tag No.) Abandonment (A090599)

Cluster Well Information for Cluster Well Construction

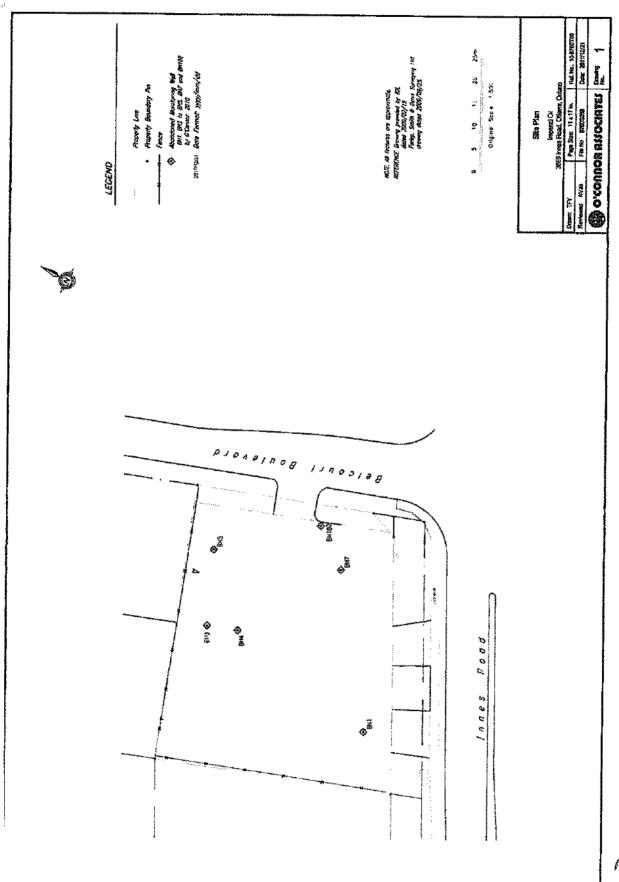
Regulation 903 Ontario Water Resources Act

Page _____ of _____

Ргор	erty Owner's Information												Consent	
First N		Last N	Vame		-	1	g Address (Street I		•	Munic	ipality Toron	1	Property Owner's Consent to use	luster form
Proving	penal Oil	Postal Cod	le .	F-mail	Address	190	Wyntord							
1 104111		m 3				wedo	e @ esso.	0.0		1	No. (inc. area			
Clust	er Well Information	11111		1 61	<u>- (OFFIC</u>	<u> </u>	- (cs (x).	<u> </u>		1 01 - 1-1	<u> </u>		Consent to release additional info	mation to the Director
<u>Manadahan dakala</u>	s of Well Location (Street Number	/Name, RR))	Lot		Concession	Township			Count	y/District/Mur	nicipality	Signature of Technician/Contractor	Date (yyyy/mm/dd)
<u>38</u>	3869 Innes Koad City/Town/Village Province Postal Code									<u></u>	17.55			
-	wn/village Ottawa	ostal Code	1 1	GPS Unit Mal			de of Opera entiated, sp	*****	differentiated		Bun Hair	2011/12/2		
		Onta			ı	1 Garmir	1							
Well# on Sketch	UTM Coordinates Zone Easting Northing		Full Depth o Hole (metres		Method o Constructi		aterial Casing Lengt (metres)	h Screen Int From	erval (metres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
BHI	11841519151210510131	314101	7.3	20								Bentonite		2010/03/
BH3	18459955503			20	***************************************							Bentonite		2010/06/2
BHY	11841519191518151033			20								Bentonite	**************************************	2010/08/
	118415191918105032			20	**************************************				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Bentonite	······································	2010/06/
BIH	118459191817510131			20 -								Bentonita	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	2010/06/0 2010/06/0 2010/03/
10L			<u> </u>		***************************************									
				····										

						4.T								
Well	Contractor and Well Techr	nician Inf	ormatio	n			-						Date 1st Well in Cluster Constructed Date (yyyy/mm/dd)	Last Well in Cluster Constructed (mm/dd) 2010 106 10
\sim	ss Name of Well Contractor	, 1 ~		11.		•	per/Name, RR)		Municipal	•		Province		
Postal	rge Downing Es	tate I	Office area	g Lta L	Well Contra	ector's Licence N	o Business E-mai	(Address	TIVED V	ille-sur-	10-Kolić	ge Oc	Ministry Use Only Date Received (yyyy/mm/dd) Date	e Inspected (yyyy/mm/dd)
JIC) V 1 B O 8 1 9	7/2/4	26	13 (13 1/2)	1 2	31414	down	ina 6	<u>haw</u>	Kilas.	net	·.	JAN 2 4 2012	
10	of Well Technician (First Name, Las	st Name)			Well Techni	ician's Licence N 7 3	o. Date Submitted		1 7	<i>i</i> /	<i>().</i>	•	Audit No. 13686 Rer	marks NISS US
1991 (1	ruce Downing				<u> </u>	TIU	2011/12	<i>JZI</i> Ministr <i>i</i>		une 10	x			ueen's Printer for Ontario, 2006

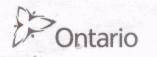
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m08713 C13686

C-1844 MOSTB.

JAN 2.4 2012



Ministry of the Environment Wall Ton No. for Master Wall (Dinn Sticker and/or Print Below)

A 090599

BH # 5

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Master W First Name	ell Owner's and L	and Owner's Infor	mation Name				E-mail Add	dress		age Oi _	
Mailing Add	ress (Street Number	Name, RR)	Municipality	to		Provin		Postal Code		phone No. (inc. area	code)
Address of	and Construction Well Location (Street	of the Master We Number/Name, RR)						Lot		ncession	
County/Dis	9 Innes	Road	그 경찰이다는 그를 보고 있다고 있다고 있다고 있다.	own/Villago					Province Ontario	Postal Cod	de
UTM Coord	11111			t Make	Model (X	Mode of O	peration:	Undifferent		ed
	Most Common	Materials (see inst.	ructions on the back General	of this fo	m) Metres)	Denth	(Metres)	Hole	Details	Diameter	
General Colour	Material	Materials	Description	From	То	From	То			entimetres)	
Aspho	It surface			0	0.1	0	3.7	20	1000		
Lt. grey	Gravel Fil	1, Sandy	Coarse grains	ed 0.1	0.9	3.7	8.1	10			
Lt. Brown	Sand fil		fine grained, de	amp 0.9	3.5						
	Limestone			3.5	8.1						
								Wat	er Use		
						☐ Public ☐ Domes			Not used Dewatering	Other, sp	pecify
						Livesto	ock 🗆 N	lunicipal 🔯	Monitoring	Air Conditioning	
						I migati		Method of	and the same of the same of		
						Cable		☐ Air Pe		☐ Digging	
						Rotary	(Convention (Reverse)	☐ Jetting		☐ Boring ☐ Other, specify	
						Rotary	(Air)	☐ Driving		HSA .	_
						Test H	ole		s of Well loned, Insuffi	icient Supply	
							ement Well ering Well	Aband		Water Quality	
								ction) Aband		specify	
						No Cas	ing and S	creen Used	Stati	ic Water Level Tes	st
						Open Hole	Yes 🖳	No		Metres	
Inside Dian		Construction De Material	Wall		Metres)				reen	Concrete Plas	No.
(Centimet	res) (steel, plastic,	fibreglass, concrete, g	Sched		To	Outside D	iameter (Ce	Steel Fibre entimetres)	Slot No.	Concrete UPTas	SUC
5.1	PVC		40	0	5.0		5.8			10	
						Water for	and at Dep	th Kind o	of Water		
								0.00		ty Sulphur N	Minerals
	Annular	Space/Abandonme	nt Sealing Record			Water for	and at Dep Metres		of Water sh Salt	ty Sulphur I	/linerals
Depth Set a	it (Metres)	Type of Sealant	Used	Volume (Cubic	e Used	Water for	ind at Dep	me.	of Water	ty Sulphur N	Ainorale
A	4.5 Bont	(Material and Ty)	pe)	-	5,	Disinfecte				Date Master Well Co	
	Den-	oruze		Leo	Kgs			ring u		(yyyy/mm/dd)	10
										200 03 additional Cluster	Well
						Informat	tion for We	II Construction	n for each p	parcel of land and dicate Number of Clu	cluster.)
							7 5		Informatio	on Log Sheets Subm	itted
							Khow				
								Location o		ster ent no larger than leg	nal size
						(8.5" × 14	"). Sketche	s are not allow	ed.	led as per Section 1	
										oncerning the clust	
						Abe Disse			- Market Street	The state of the s	
			hnician Information								
Business N	ame of Well Contracto	State Dell	Well Cont	ractor's Lip	ence No.						
Business A	^	me, number, RR)	Municipality)							
HID K Province	ul Principa Postal Cod	e Business E-m	le Jur La K	ouge		Audit No.	[((Well Contra	the state of the s	
GC	JOV	180 downin	ngehauk. ic	15. n	et			582			
Bus Telepho	ne No. (inc. area code) 14 2 1 4 0 9	Downer of Well Technic	ian (Last Name, First N				sived (yyyy/r		Date of Insp	pection (yyyy/mm/dd)	
Well Technic	an's Licence No. Signa	ature of Technician	Date Sub	mitted (yy)	y/mm/dd)	Renda	1 5 20	10			
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Ministry of the Environment

Well Tag No.	0599	(Print Well Tag No.)
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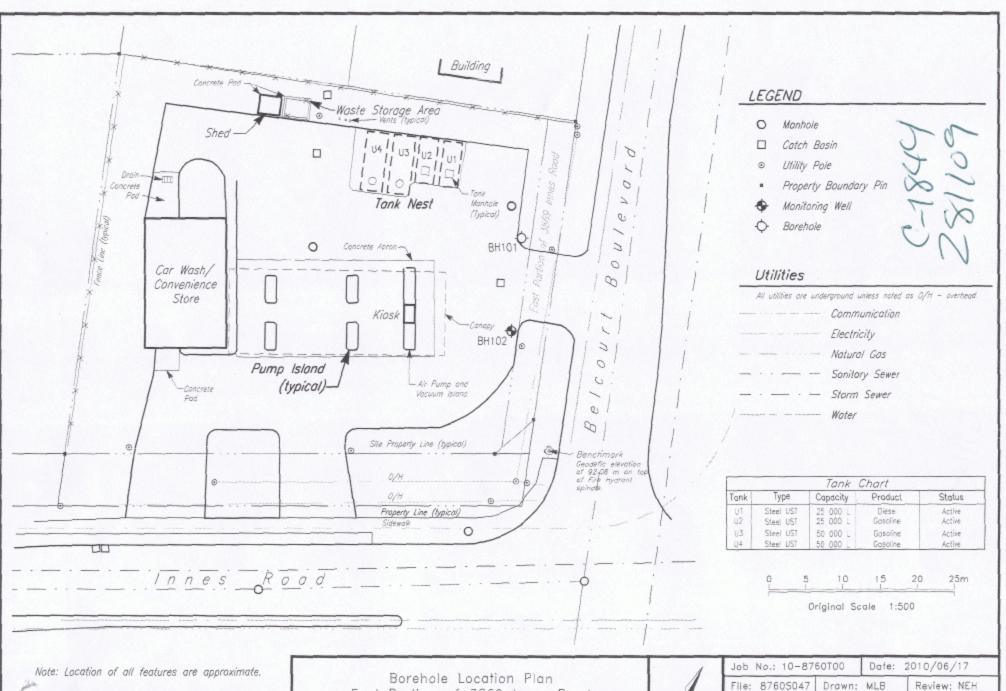
Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

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Prop	erty (Owner	's In	forma	ation	A LINE PURE PURE PARTY																				
First N	ame		~			L	ast Na	ame					Ma	iling Addr	ess (Street N	o./Name, i	RR)		Munic							
Im	Jeri	al (01	MAY.						:I A -	dulunga		191) Wi	Inford?	Duve		ITo	lophopo	No. (inc. area	oodo)					
Provin	oe .					Postal		ACCURATE THE RESIDENCE		mail Ac	duress							L	11/	. U U	17 86	4				
	ITAR				000000	m :	5 (111		-			000000	NAME OF TAXABLE PARTY.				100000000000000000000000000000000000000) \	9 11-11	1 100					
		ell Inf				A Laure	DD)			0.0		Co	noncole	n T	ownship				Count	y/District/Muni	icinality					
						per/Name,	, HH)			Lot		001	ncessio		ownship				Count	y/District with	ioipairty	Signatu	ure of Technic	cian/Contrac	tor	Date (yyyy/mm/dd)
City/To	wn/Vil	In	me	> V	DOL	P	rovino	ce Pos	stal Code			GP	S Unit I	Make M	lodel	Unit Mod	de of Oper	ration	Un	differentiated	Averaged		1	/1		
City/To	Hair	29				C	Intar	rio	1-1			C	DARU	nin	Etrex	☐ Differ	entiated, s	specify:				13	here	Hu		2010/08/28
	riced	M						Full Depth of	Hole Diam	otor	Metho		_	g Material	Casing Length	Screen Int	erval (metres)	Anni	ular Space	Static Water	Abandonment		Com	ments	-	Date of Completion
Well # on Sketch	Zone	Eastin		oordina N	ates Iorthin	ig		Hole (metres)	(cm)	eier	Constru		Casin	y material	(metres)	From	To		lant Used	Level (metres)	Sealant Used		Odin	monto		(yyyy/mm/ald)
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生力	18	45	99	805	0	3348	23	6.6	+		-		9	,	3.0	3.0	(e.)	V	2							2010/03/11
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		me of V		6	or 1	IT		11	1 11						ime, RR)		Municipa	1	O		Province	The second second	stry Use O			
OR	org	e Lo	WW	ng Y	St	ate 1.	DIN N	o. (inc. area	Life.	1	D R	ntractor's	1 in	e No Bus	siness E-mail	Address	Jul 3	Ota	Re	suge !	WC_	50-501,010101030			Date Inspect	ted (yyyy/mm/dd)
Postal	1	/ 1	B 17		Sines	92) IU	26	4 6	9	(8	4				21. K.	ig	no t				JUL 15	2010	and map dot	3))),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Name	of We	II Techn	ician (First N	ame,	Last Nam	ne)	000	l d	V	Well Tec	hnician's			e Submitted ()	yyy/mm/dd)	Signatur	e of Te	chnician	1		Audit N	lo	TO STATE OF THE ST	Remarks	1007
11		eD									2	1	7	3 2	010/08/	128	B		t	tun			c 079	8/	mo	15000
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Residential 1 5 2010 -Waste Storage Area Shed -6BH2 0 0 0 7 0 0 0 3 Residential 0 Car Wash/ 0 Convenience Store LEGEND Kiosk O Manhole 3 Catch Basin 0 Pump Island Utility Pole C (typical)-**◆**BH1 Property Boundary Pin 3 Monitoring Well 8 Borehole Site Property Line (typical) Benchmark Geodetic elevation of 92.08 m on to, of Fire Hydrant spindle. Property Line (typical) Innes Road 15 20 0 Original Scale 1:500 Job No.: 10-8760T00 Date: 2010/06/17 Note: Location of all features are approximate. Review: NEH Borehole Location Plan File: 8760S035 Drawn: MLB Reference: Farley, Smith & Denis Surveying Ltd. drawing, dated September 25, 2009. Dwg. No. 3869 Innes Road, Ottawa, Ontario O'CONNOR ASSOCIATES

Ontario Ministry of Well Record int Below) the Environment A 090654 Regulation 903 Ontario Water Resources Act of Measurements recorded in: Metric [Imperial Page Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed Imperial Oillailing Address (Street Number/Name) by Well Owner Telephone No. (inc. area code) Province Municipality M3C11K5416441171864 90 Wyn Lord ON Toronto Well Location Concession Address of Well Location (Street Number/Name) Township East portion of County/District/Municipality 3869 Innes Koad City/Town/Village Postal Code Province OHawa Municipal Plan and Sublot Number Ontario Other UTM Coordinates | Zone | Easting NAD | 8 | 3 | 18 4 | 5 | 9 | 8 | 6 | 5 | 0 | 3 | 4 | 3 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) From | To General Description Most Common Material 0 0.1 sphalt Surface Grey Grave 0. damp Iandy , Some grave Olite rey Results of Well Yield Testing Annular Space After test of well yield, water was Draw Down Recovery Depth Set at (m/ft) Type of Sealant Used Volume Placed (Material and Type) (m^3/ft^3) Clear and sand free Time Water Leve Time Water Level Other, specify (min) (m/ft) (min) (m/ft) Bontonete 40 Kgs Static If pumping discontinued, give reason: Leve 1 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Well Use Method of Construction 4 4 ☐ Public Cable Tool Diamond □ Commercial ■ Not used Duration of pumping ■ Municipal Dewatering Rotary (Conventional) Jetting ☐ Domestic 5 5 hrs + Monitoring Rotary (Reverse) Driving Livestock Test Hole Final water level end of pumping (m/ft) Boring Digging ☐ Irrigation Cooling & Air Conditioning 10 Air percussion Industrial HSA Other, specify Other, specify 15 15 If flowing give rate (Vmin-/ GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material Depth (m/ft) Wall ■ Water Supply Recommended pump depth (m/ft) Thickness (Galvanized, Fibreglass Replacement Well 25 25 (cm/in) Concrete, Plastic, Steel) (cm/in) Test Hole Recommended pump rate School 30 30 Recharge Well 51 (Vmin / GPM) 0 40 Dewatering Well 40 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 50 50 Alteration (Construction) Disinfected? Yes No 60 60 Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Depth (m/ft) Water Quality Diamete (cm/in) (Plastic, Galvanized, Steel) Abandoned, other, From To specify Please see attached site 4.9 5.9 10 Other, specify Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) (cm/in) (m/ft) Gas Other, specify 20 Water found at Depth Kind of Water: Fresh Untested 1.6 (m/ft) Gas Other, specify 1.6 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Downing Comments 410 Grenville & downing Chowk. igs. Net Well owner's information Date Package Delivered Ministry Use Only JOVI YYY MM DI package owhere 8 1 9 2 4 2 6 4 6 9 Well Technician's Licence No. Signat delivered Date Work Completed Contractor Date Submitted 201000 2010031 @ Queen's Printer for Ontario, 2007 Ministry's Copy



Reference: Farley, Smith & Denis Surveying Ltd. Growing, dated September 25, 2009.

East Portion of 3869 Innes Road Ottawa, Ontario



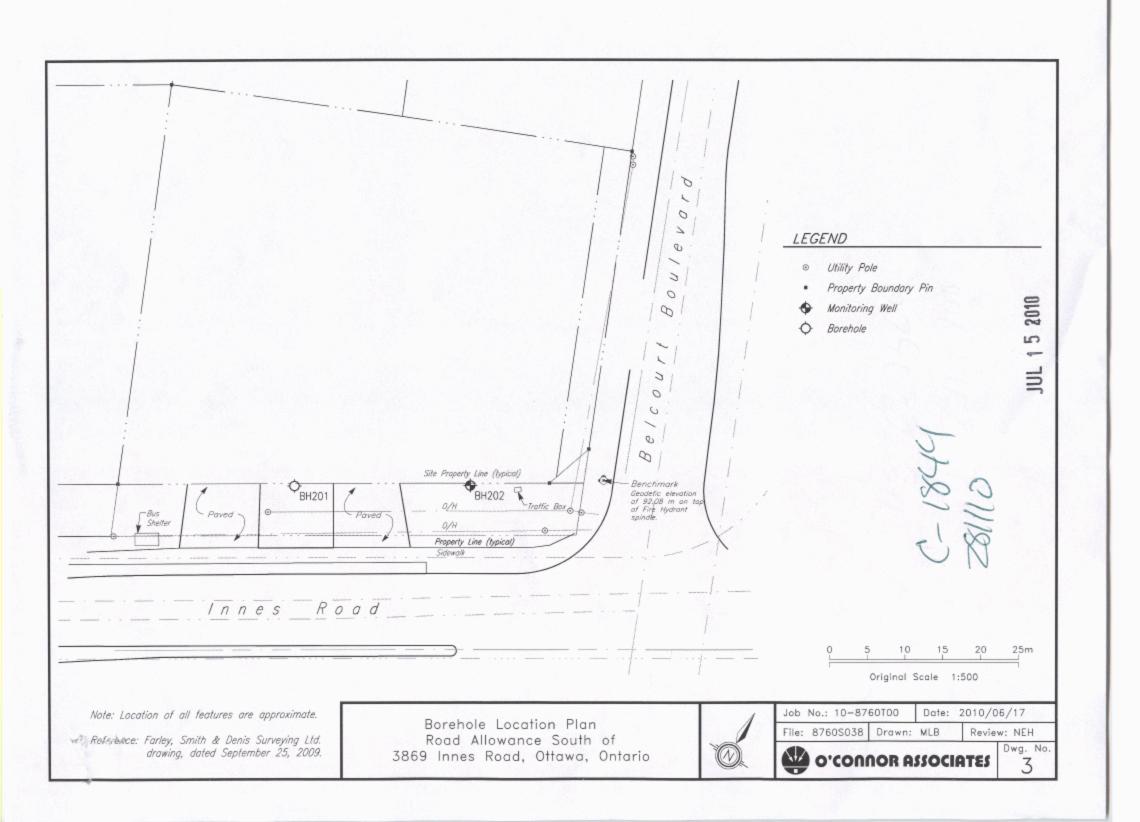
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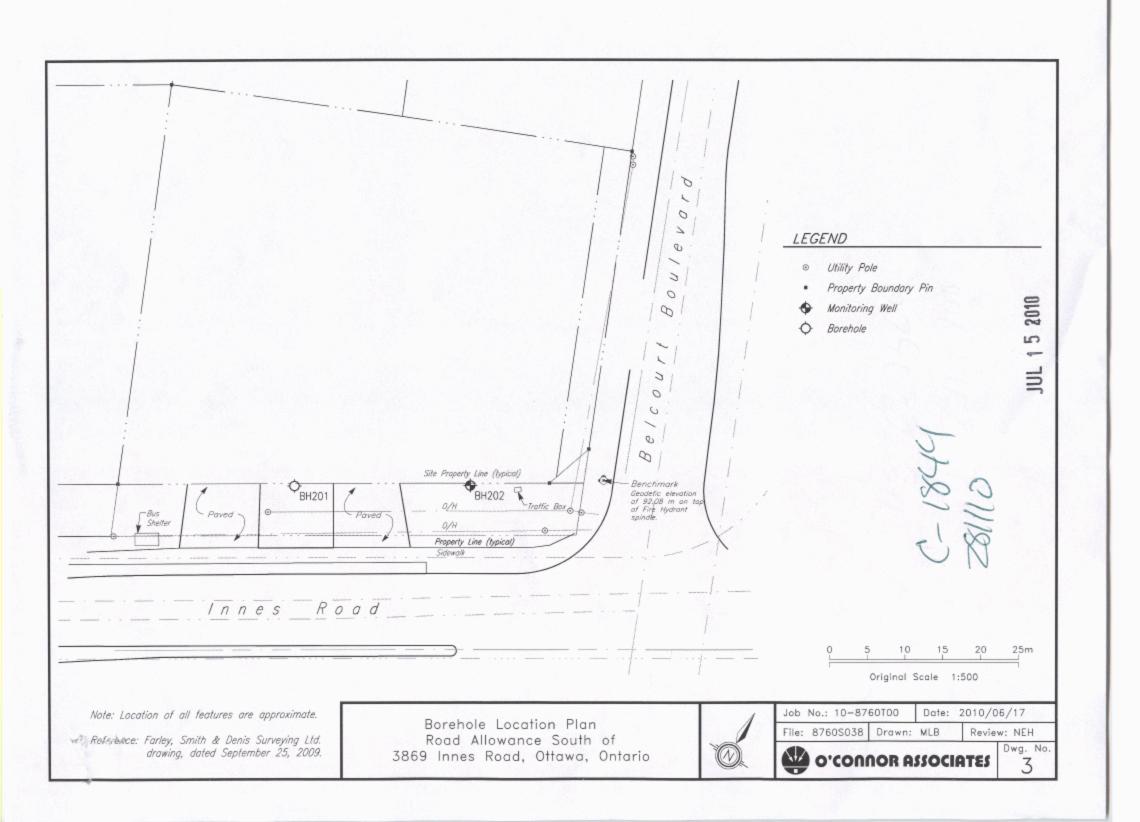
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Length of screen	·	. Duratio	on of test pumping	Ç,	<i>[</i>]						
Depth to top of screen		Water o	clear or cloudy at								
Diameter of finished hole		1	Recommended pumping rate. G.P.M with pumping level of								
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Well Log				ter Record	<u> </u>						
Overburden and Bedrock Record	From ft.	To ft,	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, suiphur)						
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f to see	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.]	In diagram below	show distances o	f well from						
Is well on upland in valley, or on hillside?			road and lot line.	Indicate north	by arrow.						
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Drilling Firm 1360 5/100	S. S.										
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Address		•									
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(Signature of Licensed Drilling Contractor	t) -										
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Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below) Abandon ment AOG 4937

Well Record

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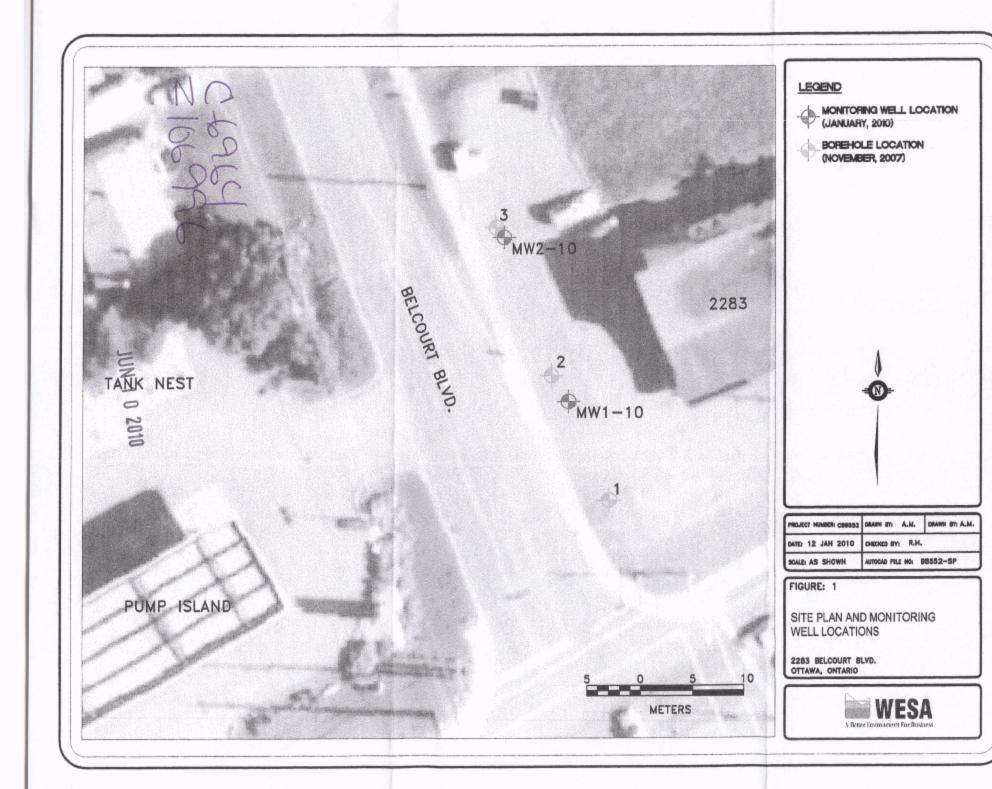
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	8 3 8 4 60 (en and Bedrock Materi		033		- Fel			<u> </u>	 •	Some	Part Britis e Nova Autoritis (bassa)	ÁROZKOSÉM	9802030100800080036
General C		non Materia				Material		B DACK OF THIS TOFF	General Description			Dep From	lh (<i>m/tt</i>)
ara	. 5				*******			rock f	ragments !	1	nes	<u> </u>	1.93
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From	To	(Material a			_		r³/ft³)	Clear and	d sand free	Time	Water Level	Time	Water Level
O	4.72 hole		<u> </u>			4	Dags	Other, sp	continued, give reason:	(mîn) Static	(m/fi)	(min)	(10/ft)
4.72	9.45 file	C'S	ahd	*****************************		2 k	aa's	II pompang ua	beatimined, give reason.	Level		1	
							,	Pump intake	set at (m/ft)				
	Mandada da									2		2	
Meth	nod of Construction			Well Us	· ·········			Pumping rate	(Vmln / GPM)	3		3	
Cable To	ool Diamond Conventional) Datting	1 =	blic mestic	Comme			Not used Dewetering	Duration of p	umping	4		4	
Rotary (F	Reverse) Driving	1	estock	Test Ho	ele] Monitoring	hrs +	min rel end of pumping (m/it)	5		5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
☐ Boring ☐ Air percu		□Inc	lustrial	Cooling	a A	ar Condili	ioning	Lital water lev	erence of bumping (mm)	10		10	
Other, sp	•		her, specify_	otokan ikulilaninind	S: 1500			If flowing give	rate (l/mln / GPM)	15		15	***************************************
Inside	Open Hole OR Material	Wall		ı (<i>m/fi</i>)		Water		Recommende	ed pump depth (m/fit)	20		20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (c <i>m/in)</i>	From	То		☐ Replac	ement Well ele			25		25	
5.2	plastic	0.4	0	4.72	ļĒ	Recha	rge Well	Recommende (Vmin / GPM)	ed pump rate	30		30	
				on one of the original origin	1 1	Observ	ering Well ration and/or	Well production	on (l/min / GPM)	40		40	
						Monito: Alterati	ring Hole ion	Disinfected?		50		50	
						(Const Abande	ruction) oned,	Disintected?	No	60		60	
	Construction R	ecord - Scre	en				pient Supply oned, Poor		Map of We		***************************************		
Outside Diameter	Material (Plastic, Galvanized, Steel)	Slot No.	Depth From	(<i>m/ft)</i> To			Quality oned, other,	Please provide	a map below following	instructi	ons on the b	ack.	
(cm/ln)	1		1	ļ	4_	specify	,						
6.0	plastic	10	4.72	4.45	- [Other,	specify						
	Water Det	202000000		j F	1 1	Popular (Managar)	1410000659005		Sila alau		أمص	,,,,,	
	d at Depth Kind of Water			Dep		n/ft)	Dlameter	0	Site plan ap are	\ O	(,/C)	<u></u>	
	u/ft) ☐ Gas ☐ Other, spe d at Depth Kind of Water		Ti latania d	From	-	_ <u>™</u> √72	(cm/in)	W	ap are	ıλ/	CUCI	20	
(m		m Nfi a	_				32		·				
Water found	d at Depth Kind of Water	: Fresh	Untested	4.72	-	1.45	9						
(m.	u/ft)		Tachalala	in the Karrya	1	Carrana de la compansión d	0453859v9v63903;						
14	ame of Well Contractor		E PER II CAST	- TOTAL TOTAL CONTRACT OF THE SAME	-	ontractor's	Licence No.						
	55 INC ddress (Street Number/Na	meì	. "		O	9 pality	614	Comments:	·		······		
5518		Side	Roa	$d \mid \ell$		MOY	nte.	Oomments.					
Province	Postal Code	2	E-mail Add	ress				Well owner?	i Pata Pantana Para	,	VARIANCE MARCHINE		
L/MTQJ Bus.Telepho	no KOAIIA	UI COS me of Well T	echnician (L	ast Name,	Firs	, <u>С</u> С t Name)	***************************************	Well owner's information package	Date Package Delivere		Minist Audit No,	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>W. Share</i> (1997) 1999
. 1	R567666 an's Licence No. Signature	, and a		~				delivered	Y Y Y Y M M M	010	Z .	LUC	963
vveil rechnicia	an's Licerice No. ISIgnature	or Jechnicla	in and/or Co				ાં ઋજિય	Yes	20110016		EB 0 9	2010	J
<u> </u>	<u> </u>					. , -	· · · · · · · · · · · · · · · · · · ·	L	V0-11 V (W100) W				18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19



Ministry of the Environment

Well Tag No. for Master Well (Print Well Tag No.)
A 064937

A064937

Cluster Well Information for Cluster Well Construction

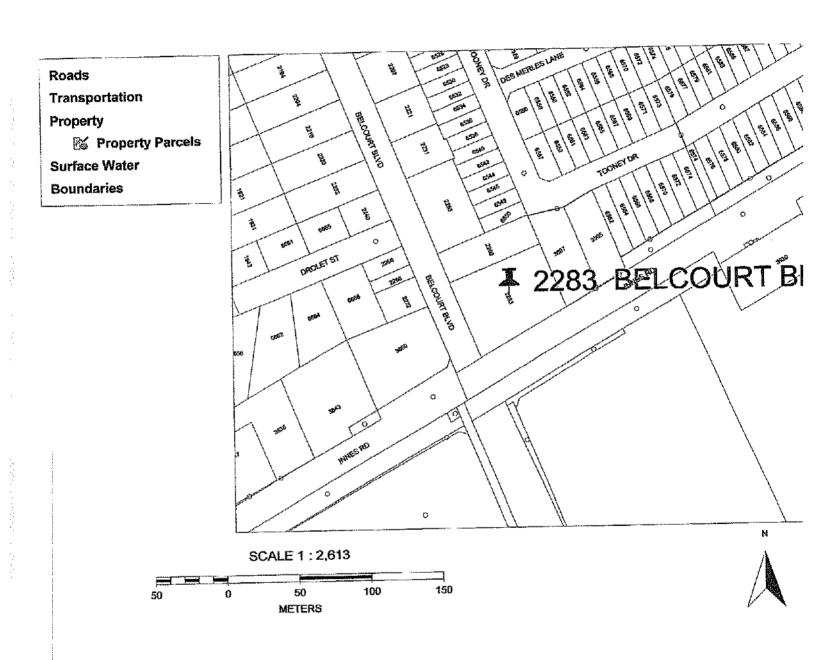
Regulation 903 Ontario Water Resources Act

Page 2 of 2

City/Town/Village Provi	enue nce Posta	Lot Q	15 G	PS Unit Make M	ownship OHau lodel	OA_ Unit Mod	le of Opera	N.	y/District/Mun †CUL) (1) differentiated	Corleton Averaged	upon request Signature of Technician/Contra	actor Date (yyyy/mm	n/dd)
Ottawa Onto	ario		l N	agellan		☐ Differ	entiated, sp	ecify:	~				
Well # UTM Coordinates on Sketch Zone Easting Northing	Full Depth of Ho Hole (metres)		Method of Construction	Casing Material	Casing Length (metres)	Screen Inte	erval (matres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Comple (yyy/mm/di	letion (d)
MWI-10 1 18 4 16 10 10 10 1 5 10 3 13 14 4 10	9.45	9 A	ir hammu	plastic	4.72	4.72	9.45		6.15			2010/01	1/0
MW2-10 118 41599 1818 510313 1414 14	10.52	9	u.	1 	2.39	<i>વે.3</i> 9	10.52		5.72			2010/01	1/0

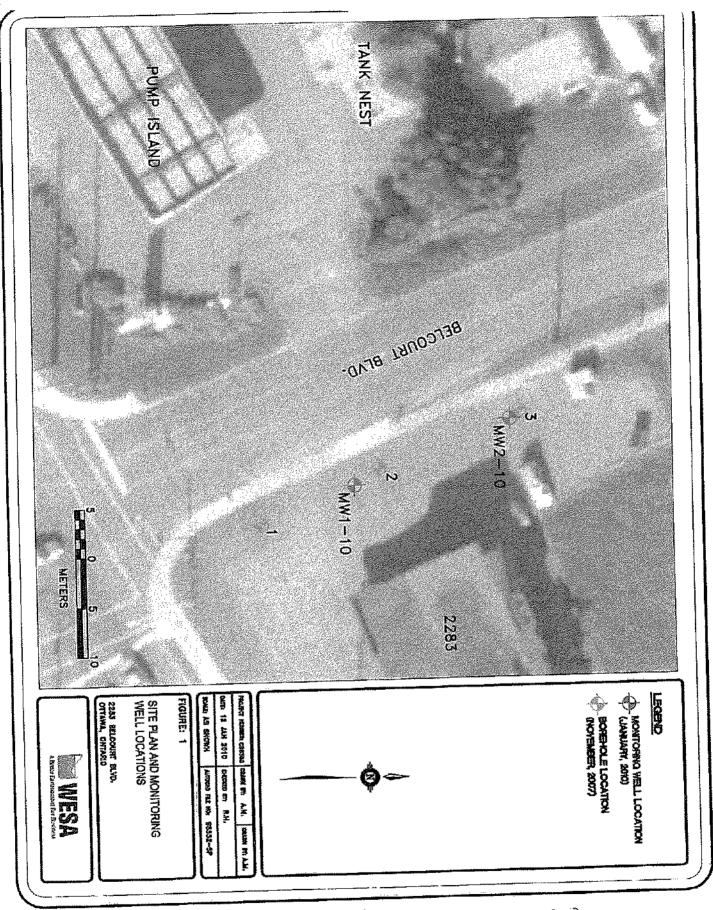
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			** ***	### ### ### ### ### ### ### ### ### ##			:		THE PROPERTY OF THE PROPERTY O				
					COLORER BOLLOWS				0011000-000-0100-01				
Well Contractor and Well Technician Inf Business Name of Well Contractor	ormation	Busines	ss Address (S	Btreet Number/Na	me. RR)		Municipali	lv		Province	Date 1st Well in Cluster Constructed (yyyylinmidd)	Date Lasi Well in Cluster Constru (1999/mm/dd) 2010/01/07	ucted
DGS INC		l		^ · í				nonte		Ontario	Ministry Use Only		-02 ANS
Postal Code K D A I A D 6 I B 2 S Name of Well Technician (First Name, Last Name)	0. (inc. area code	e) W	ell Contractor	S License No. Bus 6 4 (s License No. Date							Date FEB (9/2010 ^(d)	Date Inspected (yyyy/mm/dd)	
Name of Well Technician (First Name, Last Name) Bhan Dhimann			Fell Technician		Submitted (y		Signature	of Technician	00-		Audit No. 07344	Remarks 656	Z_{j}
1991 (11/2006)			VIOI	11312		inistry's	Conv	<u>~ (9</u>	NE E	4		Queen's Printer for Ontarlo, 2	<u>=====</u> 2006

Ottawa



FEB 0 9 2010

C-6964 2106963 C07344

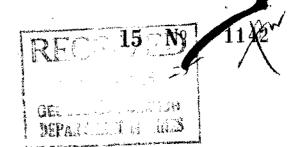


FEB 0 9 2010

C-6964 2106963 C07344 UTM 1 182 460000 E 9 R 50333121210 N Elev 19 R 0300



The Water-well Drillers Act, 1954 Department of Mines



Water-Well Record or Territorial District Lauleten Township, Village, Town or City Aloutter

Village, Town or City) Glaar Cost

(day)

(month)

(year)

Pumping Test Pipe and Casing Record Static level 9 15 fram Pumping rate L. Length(s) Type of screen Duration of test ______ Length of screen

Water Record Well Log Depth(s) Kind of water No. of feet (fresh, salty, or sulphur) at which From Overburden and Bedrock Record water rises ft. 12

For what purpose(s) is the water to be used? prinate forme

Name of Driller Africa, Justine Address Commille out

Licence Number 10.19

I certify that the foregoing statements of fact are true

Location of Well

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

RN

084,88

UTM 18 2 460000E 5 R 5101313121210 N Elev. 14 R 10310101

Basin (25)

LOT

2



The Water-well Drillers Act, 1954 Department of Mines

LEGUNDWAYER BE OCT 1 6 1958 ONTARIO WATER RESOURCES COMMISSION

	17		II Kecor		
Claumbro en Marmikania). Diskrist d	T GA	m	hip, Village, Town or n Village, Town or C Address	City GleUGE Sty) Dillo Lan O	alexandre M
Date completed	(month)				
Pipe and Casin	g Record			Pumping Test	
Casing diameter(s)		442000000000000000000000000000000000000	Static level	ft fraguez	Top
Length(s)	/Y o)	Pumping rate	500	******************
Length of screen			Duration of test	1 perior	
Well Log				Water Record	**************************************
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
gravel		1 5		<i></i>	2
			ис	62/1	fresk
For what purpose(s) is the water Is water clear or cloudy?	omeatil		In diagram below	cation of Well	
Is well on upland, in valley, or or Drilling firm Africa. Address Control Name of Driller Africa. Licence Number Control I certify that the	hillside?	el	BLACK BO	indicate north	by arrow.
statements of fact Date ECLIC AS					



3/6/5/2 1510708-

KM

11. 5 R 013 015

WATER WELL RECORD

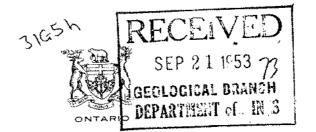
County or District Carleton	Towns	ship. Village, T	own or City	Glouceste	y ,
Con CF 2 Lot 2					
				rleans, Ont.	
Casing and Screen Record			Pumpir	ıg Test	
Inside diameter of casing 2"	St	atic level			
Total length of casing 16'	1				
	1			201	
Type of screen Length of screen		•		2 hrs.	
	E			test clea	
Depth to top of screen				6	
Diameter of finished hole	1			20 feet belo	
Maria da maria	<u> </u>	was beauth second	S V		Record
Well Log Overburden and Bedrock Record	AAAAA111111111111111111111111111111111	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay		0	4	38	fresh
grey limestor	10	4	38		

For what purpose(s) is the water to be used? domestic	[- X*		of Well	11 C
Is well on upland, in valley, or on hillside? valley Drilling or Boring Firm		In diagrai road and	n below shov lot line. In	v distances of we dicate north by	arrow.
G. Charbonneau, Diamond & Cable Drilling, Address R. R. 1, Box 194, Orleans, Ont.		COURT	The state of the s	,	Alla
Name of Driller or Borer Gérard Charbonneau, Address R. R. 1, Orleans, Ont.		S X X	To an analysis of the state of		
Date 27 June 1969 Signature of Licensed Drilling or Boring Contractor)			6	EN	NE BOAD
Form 7 15M-60-4138		· ·			

OWRC COPY

(9)	Onto	vio '	Ministry of	Well T	ag Number (Plac	e sticker and pri	int number below)		•	Well R) ocord
W T	Onta		he Enviro	nment			<u>;</u>	Regulation 9)3 Ontario		
		Completin]		page 1	[==(_
• All 8 • Que	Sections n estions reg m etre me	nust be con jarding com asurement	npleted in pleting this s shall be	full to avoid dela s application can reported to 1/1	ys in processin i be directed to	g. Further i the Water	instructions and	lease retain for futu d explanations are a nent Coordinator a	vallable or t 416-235	n the back of	this form.
		learly in blu formation	·····	ink only. Ition of Well In	formation	MUN	Ce	Ministry U	se Only	< LOT	
	·		·····			- ташыл-с					
RR#/Stre	et Number/ 77 ding	Name ////// NAD Zgo 8 3 ///	55 R	242),	orthing (City/Town/Vi CITYTUS Unit Make/M MASUZ	4 lodel , Mode	Site/Comp	partment/B	lock/Tract et	
Log of C	Overburd			iterials (see in:				l Description	· · · · · · · · · · · · · · · · · · ·	Depth	Metres
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	lole Diame		-	MA car	struction Reco	rd			st of Well	····	
Depth From	Metres To	Diameter Centimetres	Inside diam	Material	Wall thickness	Depth	Metres	Pumping test method	Time Wat	ter Level Time	lecovery Water Level
0.0	11.60	15,24	centimetres		centimetres	From	То	Pump intake set at -	min N Static 3	Metres min	Metres
				Steel Fibreglas	Casing			(metres) Pumping rate -	Level 1	1	
1	Nater Reco	ord		Plastic Concrete				(litres/min) Duration of pumping	2	2	
Water four atMet		d of Water		Steel Fibroglas	is : .			hrs + mi		3	
Gas	Fresh Salty	Sulphur Minerals		☐ Plastic ☐ Concrete ☐ Galvanized				of pumping metre	s		
Other:	Fresh	Sulphur		Steel Fibregias	1	······································		type. Shallow Dee	p	4	·
Gas Other:	Salty	i Minerals		Plastic Concrete Galvanized	<u>, </u>			Recommended pump depthmetre	s	5	
∐im ∐Gas	Fresh Salty	Sulphur Minerals	Outside		Screen			Recommended pump rate. (litres/min)	10	10 15	
Other:			diam	Steel Fibreglas Plastic Concrete				If flowing give rate - (litres/min)	20 25	20 25	
Clear a	and sediment			Galvanized.				If pumping discontin- ued, give reason.	30	30	
Other,	specify	No		Open hole	Casing or Scre	en			40 50	40 50	***************************************
JIIOTHIALE	<i>F</i> 3				larance 13 Ab	andonment.		Location	60	60	
		ging and Se Vlaterial and typ		ra E Annu lumy, neat cement slur	Tolume	e Placed metres)		v show distances of well		lot line, and bu	ilding.
122	1110	HOLE	MIG.	BANONITE T-		23	Indicate north by	arrow .W			
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Domes	ŀic	∏Industria		r Use	viaa	Other	17	2 Miles	Dad	A	7
Stock		Comme	rclal	Not used	air conditioning		Audit No.	<u></u>	ate Well So) ·	<i>81</i> . an
		/	Final Stat	tus of Well	4#	ned, (Other)	Z	4/381 vner's infigration D	ate Delivere	CCO O	DOL
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		Well Con	tractor/Tec	hnician Informat	tion .	icence No	Data Source	Ministry U	ontractor_		
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Name of V	e Tocholo			·	Wal Zoos	Cence No.	Remarks	ľ	/ell Record l	Number	
Signature X	OPP)	Contract		\ \	7006 C	060	<u> </u>				
0506E (09/	03)		Conf	ractor's Copy	Ministry's Copy	Well Owr	ner's Copy 🔲	Cette	tormule es	st disponible	en trançais

Elev. 19 R 0 3 0 0



15 Nº X1401

The Well Drillers Act Department of Mines, Province of Ontario

A fr.	p , Villa	ige, Town	or City:) (;,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Fown o	r City	.k		
Date Completed					
Pipe and Casing Record			Pumping Test		
Casing diameter(s). Length(s) of casing(s). Type of screen. Length of screen. Distance from top of screen to ground level. Is well a gravel-wall type?	Pumping level Pumping rate Duration of t	est	or bowls to groun	*******	
V	Vater Record				
Kind (fresh or mineral)			Depth(s) to Water	Kind of Water	No. of Fee Water Ris
Quality (hard, soft, contains iron, sulphur, etc.) Appearance (clear, cloudy, coloured) For what purpose(s) is the water to be used?		/ /	Horizon(s)	fuh	29
How far is well from possible source of contamination? What is the source of contamination? Enclose a copy of any mineral analysis that has been may well Log			* *	cation of Wel	
Overburden and Bedrock Record	0 ft.	ft.		below show dis	
Claye	0	10		road and lot I th by arrow.	ine. In-
		3.3	Man	Rain Solver	Rei
			R.	ò	
Situation: Is well on upland in valley, or on hillside?	2426		?		
Drilling Firm. Address. Name of Driller. Date.	an	Address		······································	



File Number: C10-01-15-0111

April 29, 2015

Anna Graham Paterson Group 154 Colonnade Road South, Ottawa, ON K2E 7J5

Sent via email [agraham@patersongroup.ca]

Dear Ms. Graham,

Re: Information Request

3817, 3819, 3835 and 3843 Innes Road, Ottawa, Ontario ("Subject Properties")

Internal Department Circulation

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

• The Solid Waste Services Branch notes that the subject properties are within 5km of two waste management facilities located at 106 Westhunt Road and 3354 Navan Road.

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 Properties.

A search of the HLUI database revealed the following information:

• There are no activities associated with the Subject Properties.

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

• There is 1 activity associated with properties located within 50m of the Subject Properties: Activity Number 443.

Shaping our future together
Ensemble, formons notre avenir

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

110 Laurier Avenue West, 4th Floor Ottawa, ON K1P 1J1 Tet: (613) 550-2424 ext. 14743 Fex: (613) 550-9006 www.ottawa.ca Ville d'Ottawa Services d'infrastructure et Viabilité des collectivités Direction de l'approbation des demandes d'aménagement et d'infrastructure

110, avenue Laurier Ouest, 4e étage Ottawe (Ontario) K1P 1J1 Tèl.: (613) 580-2424 ext. 14743 Télèc: (613) 580-6006 www.ottawa.cs A site map has been included to show the location of the Subject Properties as well as the location of all the activities noted above.

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 keys 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 Properties. You may wish to contact the Ontario Ministry of Environment for additional information.

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

Sincerely,

David Wise, MUP, MCIP, RPP

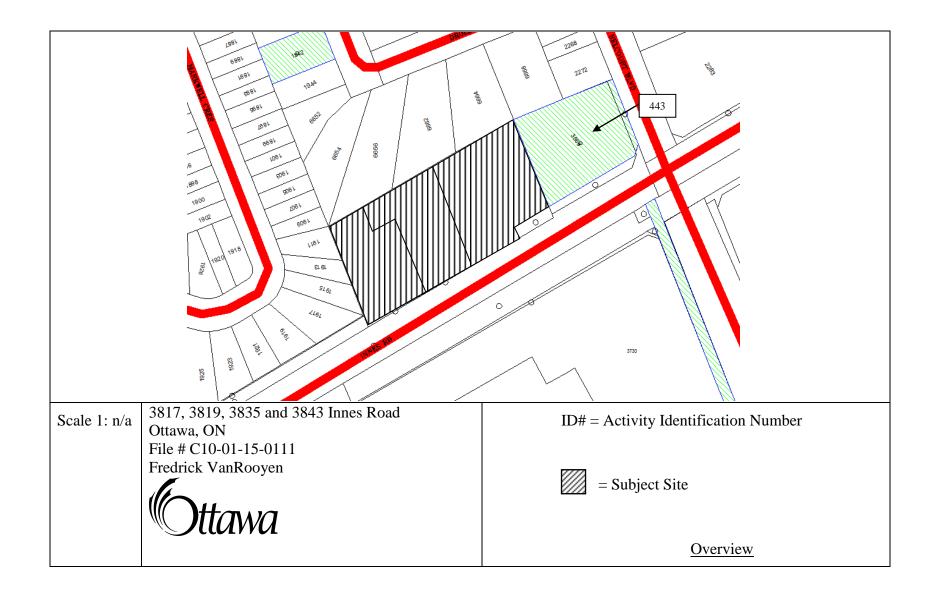
Program Manager

Development Review (Suburban Services) - West Planning and Growth Management Department

DW/FV

Attach: 2

cc: File no. C10-01-15-0111





CITY OF OTTAWA

HLUIID: 6799BC

Report:

RPTC_OT_DEV0122

Run On:

15 Apr 2015 at: 12:01:12

Study Year 2005

PIN 044130073

Multi-NAIC

Multiple Activities

Activity ID:

443

Multiple PINS:

AREA (Square Metres): 2931.288

Ν

PIN Certainty:

Previous Activity ID(s):

Related PINS:

044130073

Name:

172965 CANADA LIMITED

Address:

3869 INNES ROAD, GLOUCESTER

Facility Type:

Gasoline Service Stations

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3:

2005 Property Assessment

NAICS

SIC

447190

0

447110

0

Company Name

Year of Operation

ESSO

172965 CANADA LIMITED

c. 2005 c. 2005

ESSO

c. 2001

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mark S. D'Arcy, P. Eng.

patersongroup

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

Environmental Engineering Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

Geotechnical Engineering 1991 to Present

Paterson Group Inc.

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

SELECT LIST OF PROJECTS

Materials Testing Quality Control Mary River Exploration Mine Site - Northern Baffin Island

Agricultural Supply Facilities - Eastern Ontario Laboratory Facility - Edmonton (Alberta)

Ottawa International Airport - Contaminant Migration Study - Ottawa

Richmond Road Reconstruction - Ottawa Billings Hurdman Interconnect - Ottawa Bank Street Reconstruction - Ottawa

Environmental Review - Various Laboratories across Canada - CFIA

Dwyer Hill Training Centre - Ottawa

Building Science

Nortel Networks Environmental Monitoring - Carling Campus - Ottawa

Remediation Program - Block D Lands - Kingston Investigation of former landfill sites - City of Ottawa Record of Site Condition for Railway Lands - North Bay

Commercial Properties – Guelph and Brampton Brownfields Remediation – Alcan Site - Kingston

Montreal Road Reconstruction - Ottawa

Hydrogeology

Appleford Street Residential Development - Ottawa

Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction - Ottawa
Somerset Avenue West Reconstruction - Ottawa

Anna Graham, M.E.S.

patersongroup

POSITION

Environmental Assessor

EDUCATION

Environmental Engineering

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

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

EXPERIENCE

Geotechnical Engineering

2014 to Present

Paterson Group Inc.

Consulting Engineers
Environmental Assessor

2013 to 2014

Civica Infrastructure Inc.

Municipal Water Resources Engineering - Vaughan Project Support Coordinator, Project Proposal Writer

Materials Testing Quality Control

SELECT LIST OF PROJECTS

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

Building Sciences

Hydrogeology

Paterson Group Inc.